

**Marking Systems  
Tools  
Mounting Material  
2015/2016**

5





# Marking systems, tools, and mounting material



## Terminal blocks

- Terminal blocks



## Interface technology and switching devices

- Electronic switching devices and motor control
- Measurement and control technology
- Monitoring
- Relay modules
- System cabling for controllers



## Sensor/actuator cabling and industrial connectors

- Sensor/actuator cabling
- Cables and lines
- Connectors



## Control technology, I/O systems, and automation infrastructure

- Lighting and signaling
- Fieldbus components and systems
- Functional Safety
- HMIs and industrial PCs
- I/O systems
- Industrial Ethernet
- Industrial communication technology
- Software
- Controllers
- Wireless data communication



## Surge protection and power supplies

- Surge protection and interference suppression filters
- Power supplies and UPS
- Protective devices



## PCB connection technology and electronics housing 2013/14

- PCB terminal blocks and PCB connectors
- Electronics housing

## Connection technology for field devices 2013/14

- Connectors
- Cables and lines

## Find out more with the web code

On some of the catalog pages, you can find our web codes: a number sign followed by a four-digit number combination.

**i** Web code: #1234 (example)

This allows you to reach information on our website quickly.

### It couldn't be simpler:

1. Go to the Phoenix Contact website
2. Enter # and the number combination in the search field
3. Receive more information and product versions

Or use the direct link:

[phoenixcontact.net/webcode/#1234](http://phoenixcontact.net/webcode/#1234)

Information on these products can be found in the electronic product catalogs for 2013/14.










Or get the latest on all the new products and additional information directly in the product area of our website:

[phoenixcontact.net/products](http://phoenixcontact.net/products)



Also discover the Phoenix Contact catalog app interactively on your tablet.

# Table of contents

<b>Product range overview in pictures</b>			<b>4</b>
Access the desired product directly from here			
<b>Marking and labeling</b> MARKING system	CLIP PROJECT Planning and Marking software Customer-specific printing service MARKING system app		<b>15</b>
	Marking systems		<b>25</b>
	Terminal marking		<b>53</b>
	Conductor and cable marking		<b>153</b>
	Device marking		<b>223</b>
	System marking		<b>307</b>
<b>Tools</b> TOOL fox	Hand tools		<b>357</b>
	Automatic devices		<b>467</b>
<b>Installation and mounting material</b> CABINET add-on	CLIPSAFE stainless steel Ex terminal boxes and empty housings, CLIPSAFE ABS terminal boxes, component mounting, shielding, cable management		<b>483</b>
<b>Technical information</b>			<b>598</b>
<b>Index</b>			<b>612</b>

# Marking systems, tools, mounting material

## Product range in pictures

### Planning and marking software



CLIP PROJECT  
Planning and marking software Page 16  
Customer-specific printing Page 20  
MARKING system app Page 22

### Marking systems - MARKING system



TOPMARK LASER for industrial marking  
TOPMARK LASER Page 28



TOPMARK LASER set Page 29



BLUEMARK CLED for printing UniCard materials - as easy as printing on paper  
BLUEMARK CLED Page 31



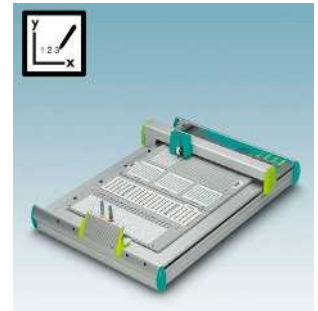
Thermal transfer printer sets  
MARKING BOX Page 38



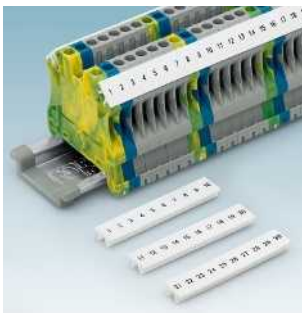
Thermal transfer printer for roll material  
THERMOMARK X1.2 Page 40



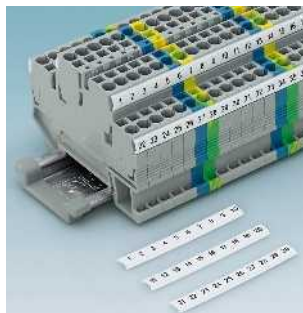
Thermal transfer printer for shrink sleeves  
(double-sided printing possible)  
THERMOMARK W2 Page 41



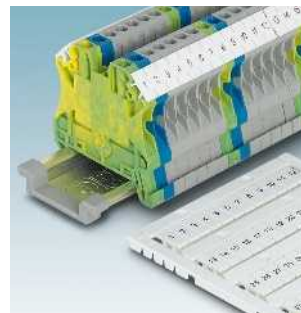
Plotter  
CMS-P1-PLOTTER Page 42



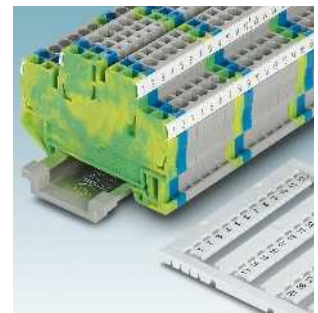
Zack marker strip terminal marking for a tall marker groove, for printing with plotter ZB... Page 62



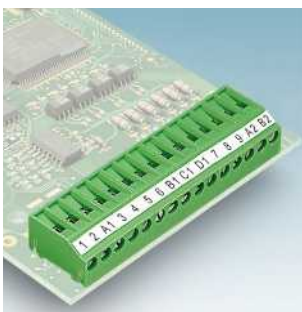
Zack marker strip terminal marking for a tall and flat marker groove, for printing with plotter ZB... Page 62



UniCard terminal marking for a tall marker groove, for printing with TOPMARK LASER, BLUEMARK, and THERMOMARK CARD UCT-TM... Page 76



UniCard terminal marking for a tall and flat marker groove, for printing with TOPMARK LASER, BLUEMARK, and THERMOMARK CARD UCT-TM... Page 76



Self-adhesive marker strips for terminal blocks without a marker groove, for printing with THERMOMARK ROLL TML... Page 90  
SK... Page 92



Group marking Page 96



UniCard marking for terminal blocks from other manufacturers, for printing with BLUEMARK, TOPMARK LASER, and THERMOMARK CARD Page 106

### Conductor and



Stainless steel or aluminum laser cable marking for marking with TOPMARK LASER LS-WMTB... Page 157



Printer set  
BLUEMARK CLED SET Page 31



Thermal transfer printer for printing plastic material in UCT and US format  
THERMOMARK CARD Page 32



Thermal transfer printer for roll material  
THERMOMARK ROLL Page 36

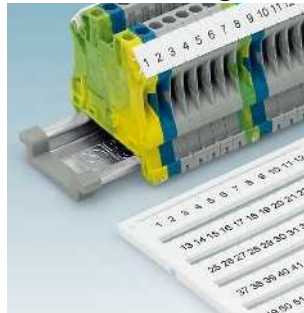


Thermal transfer printer for roll material  
THERMOMARK ROLL X1 Page 37

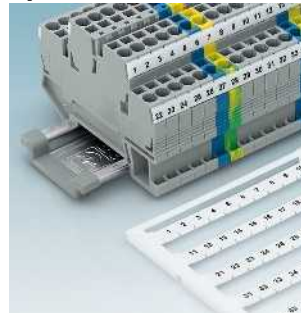
### Terminal marking - MARKING system



Plotter with engraving unit  
P1 ENGRAVING UNIT Page 43



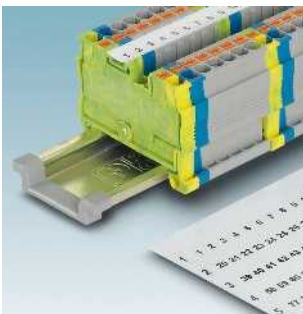
UniCard terminal marking for a tall marker groove, for printing with BLUEMARK  
UC-TM... Page 56



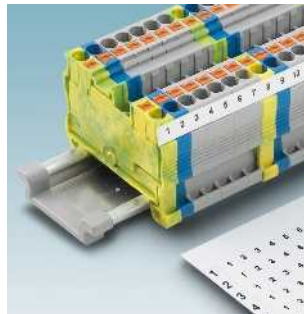
UniCard terminal marking for tall and flat marker groove, for printing with BLUEMARK  
UC-TM... Page 56



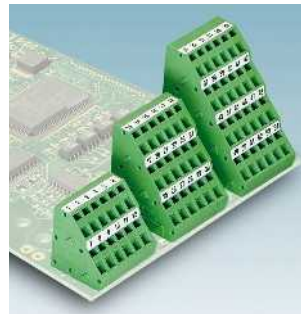
UniCard terminal marking for marking stud holders, for printing with BLUEMARK  
UC-TMN... Page 60



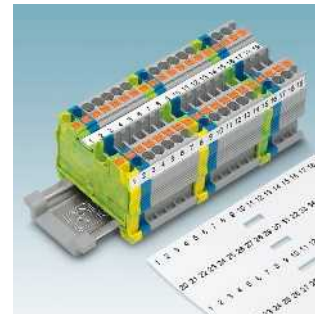
UniSheet terminal marking for a universal marker groove, for printing with  
THERMOMARK CARD  
US-TM... Page 80



UniSheet terminal marking for a tall and flat marker groove, for printing with  
THERMOMARK CARD  
US-TMF... Page 81  
UCT1... UCT5-TM... Page 111



Self-adhesive marker strips for terminal blocks without a marker groove, for printing with  
THERMOMARK ROLL  
US-TML... Page 82

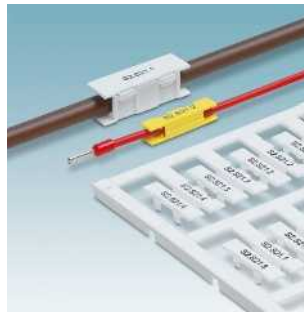


Marker strips for terminal marking, for a tall and flat marker groove, for printing with  
THERMOMARK ROLL  
TMT... Page 84

### cable marking - MARKING system



Aluminum cable marking for assembly with cable binders, for printing with  
BLUEMARK CLED  
WMTB-AL... Page 160



UniCard clip-on conductor marking, for printing with BLUEMARK  
UC-WMC... Page 162

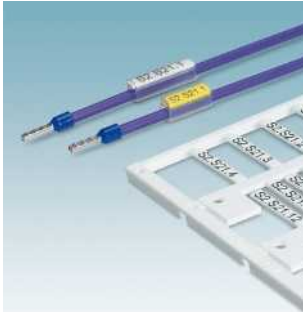


UniCard conductor marking for threading, for printing with BLUEMARK  
UC-WMCO... Page 166



Conductor marking with ferrules that can be marked, for printing with BLUEMARK  
AI-WM... Page 169

## Product range in pictures



UniCard conductor marking for marking collars, for printing with BLUEMARK UC-WMT... Page 170



UniCard cable marking for assembly with cable binders, for printing with BLUEMARK UC-WMTB... Page 172  
UC-WMTBA... Page 173



UniCard conductor marking for marking with TOPMARK LASER, BLUEMARK, and THERMOMARK CARD UCT-WMT... Page 174



UniCard clip-on conductor marking, for printing with TOPMARK LASER, BLUEMARK, and THERMOMARK CARD UCT-WMS... Page 176



UniSheet cable marking for assembly with cable binders, for printing with THERMOMARK CARD US-WMTB... Page 182



Self-adhesive conductor marking with transparent protective foil, for printing with THERMOMARK ROLL WML... Page 185  
WML-HF... Page 186



Self-adhesive conductor marking as a flag WML-FLAG... Page 187



Pre-assembled shrink sleeves, for printing with THERMOMARK ROLL WMS-2HF... Page 188  
WMS... Page 189



Cable markers for marking cables and conductors with larger cross sections SD-WMTBS... Page 211



Plastic cable markers for insert labels KMK... Page 200



Stainless steel cable marking SD-WMTBS...VA Page 212



Marking collars for insert labels PATG... Page 214  
PATO... Page 215  
PATG-HF... Page 216



UniCard stick-on device marking with high adhesive strength, for printing with BLUEMARK UC-EMLP... Page 240



UniCard stick-on device marking, for marking with BLUEMARK UC-EMLP...EX Page 241



UniCard device marking for screwing or riveting, for printing with BLUEMARK UC-EMSP... Page 242



Marker carriers for UC-EMP .../US-EMP ... snap-in labels, for printing with BLUEMARK Page 286



UniCard conductor marking for marking with TOPMARK LASER, BLUEMARK, and THERMOMARK CARD UCT-WMCO... Page 177



UniCard conductor marking for marking with TOPMARK LASER, BLUEMARK, and THERMOMARK CARD UCT-WMTBA... Page 178



UniCard conductor marking for marking with TOPMARK LASER, BLUEMARK, and THERMOMARK CARD UCT-WMTB... Page 179



UniSheet conductor marking for marking collars, for printing with THERMOMARK CARD US-WMT... Page 180



Insert conductor marking for marking collars, for printing with THERMOMARK ROLL EMT... Page 194



Conductor marking for threading, for printing with THERMOMARK ROLL WMT... Page 196



Cable marking for assembly with cable binders, for printing with THERMOMARK ROLL WMTB... Page 197



Halogen-free conductor and cable marking for assembly with cable binders WMTB-HF... Page 198

## Device marking - MARKING system



Stainless steel or aluminum laser device marking for marking with TOPMARK LASER LS-EMSP... Page 226  
LS-EMLP... Page 228  
LS-EMP... Page 230



Stick-on aluminum device marking, for printing with BLUEMARK CLED EMLP-AL... Page 237



Aluminum device marking to be screwed in or riveted, for printing with BLUEMARK CLED EMSP-AL... Page 238



Aluminum device marking that can be snapped into marker carriers, for printing with BLUEMARK CLED EMP-AL... Page 239



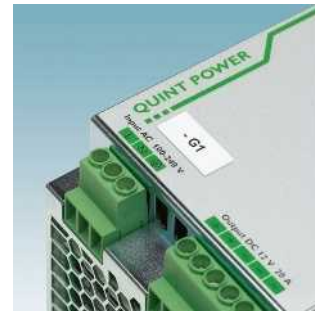
UniCard device marking that can be snapped into marker carriers, for printing with BLUEMARK UC-EMP... Page 243



UniCard snap-in device marking, for printing with BLUEMARK UC-EM... Page 245



UniCard snap-in device marking for various manufacturers, for marking with TOPMARK LASER, BLUEMARK, and THERMOMARK CARD UCT-EM... Page 248

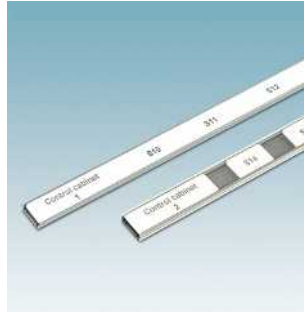


UniSheet stick-on device marking, for printing with THERMOMARK CARD US-EMLP... Page 254  
US-EMLP-HA... Page 256

## Product range in pictures



UniSheet device marking for snapping into marker carriers, for printing with THERMOMARK CARD  
US-EMP... Page 257



Device marking for snapping into marker carriers, for printing with THERMOMARK CARD  
P-SS-ZB.../ P-ZB... Page 288



Stick-on device marking and additional screws or rivets, for printing with THERMOMARK CARD  
US-EMLSP... Page 260



Stick-on device marking for marking with THERMOMARK CARD  
US-EML... Page 261  
US-EMLF... Page 262



Highly flexible stick-on PVC device marking, for printing with THERMOMARK ROLL  
EMLF... Page 272  
EMLC... Page 273



Stick-on device marking for rough or structured surfaces, for printing with THERMOMARK ROLL  
EML-HA... Page 274



Stick-on device marking for high-temperature applications, for printing with THERMOMARK ROLL  
EML-HT... Page 275



Stick-on device marking, for ESD applications, for printing with THERMOMARK ROLL...  
EML-ESD... Page 276



UniCard device marking that can be snapped into marker carriers, for printing with BLUEMARK  
UC-EMP... Page 243



Stick-on device marking, can be engraved or marked with writing  
GPE... Page 284



Marker carrier for buttons and control devices  
CARRIER-EMP 22... Page 286  
CARRIER-EMLP 22... Page 287

### System marking -



RFID system  
RFMARK HF/UHF handheld Page 311



Stick-on warning labels, with lightning flash and warning instruction  
PML-W301... Page 324



Stick-on prohibition signs, preprinted and for printing with THERMOMARK  
PML-P101... Page 328



Stick-on mandatory signs, preprinted and for printing with THERMOMARK  
PML-M101... Page 336



Stick-on pipeline markers, for printing with THERMOMARK ROLL...  
PML-T101... Page 342





Stick-on device marking, for printing with THERMOMARK ROLL EML... Page 264



Device marking for marking in Ex areas, for use with THERMOMARK ROLL EML...-EX Page 268



Stick-on device marking, for printing with THERMOMARK ROLL EMLP... Page 269



Stick-on device marking, can be engraved or marked, for printing with THERMOMARK ROLL EMLP 24... Page 271  
EMLP 30... Page 272



Stick-on device marking, removable, for printing with THERMOMARK ROLL... EML-RM... Page 277



Stick-on device marking for anti-tamper protection, for printing with THERMOMARK ROLL EMLS... Page 278



Device marking for rotary switches from Phoenix Contact, for printing with THERMOMARK ROLL EML-RS... Page 279



UniCard snap-in device marking for Axioline E series, for printing with THERMOMARK ROLL EMT...R Page 280

## MARKING system



RFID HF/UHF system marker with transponder, for marking with BLUEMARK PMLP-RFID... Page 312  
PMP-RFID... Page 313



UniCard system marking for sticking on or inserting into marker carriers, for marking with BLUEMARK UC-PMLP... Page 314  
UC-PMP... Page 315



Carriers for UC-PMP... and PMP-RFID... markers Page 316



Stick-on warning labels, preprinted and for printing with THERMOMARK, preprinted US-PML-W... Page 320



Stick-on hazardous substances labels, preprinted and for printing with THERMOMARK PML-GHS101... Page 350



Stick-on combi labels, for printing with THERMOMARK CARD... US-EMLF... Page 354



Magnetic label, unprinted, for printing with THERMOMARK ROLL... PMM... Page 355

## Product range in pictures

### Hand tools - TOOL fox



Cable cutter  
CUTFOX... Page 360



Cable cutter with ratchet function for  
minimum effort  
CUTFOX... Page 360



UNIFOX VDE combination pliers  
UNIFOX-CE VDE... Page 365



Cable binder tools for plastic and stainless  
steel cable binders  
UNIFOX-CT... Page 366



WIREFOX stripping tool, angled  
WIREFOX... Page 374



WIREFOX stripping tool  
WIREFOX... Page 374



WIREFOX stripping tool  
WIREFOX-D... Page 382



Stripping tool for coaxial cables  
WIREFOX-D... Page 382



Crimping pliers for connectors and cable  
lugs  
CRIMPFOX-RCI... Page 394  
CRIMPFOX RC... Page 396  
CRIMPFOX RCT... Page 398



Basic pliers for accommodating various  
crimp inserts  
CRIMPFOX-C50 Page 399



Crimping pliers for solar connectors  
CRIMPFOX-SR... Page 405



Basic pliers for accommodating various  
coaxial crimp inserts  
CRIMPFOX-M... Page 405



Voltage and continuity tester  
DUSPOL... Page 426



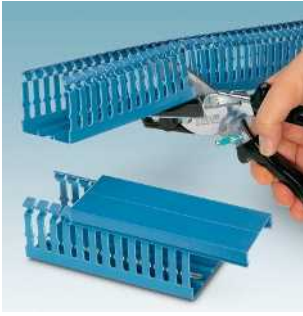
SCREWFOX universal control cabinet keys  
SF-CCK... Page 425



Digital current probe multimeter  
TESTFOX... Page 427



Tool sets  
TOOL... Page 430



CUTFOX cable duct cutter  
CUTFOX-CD Page 369



Cable duct cutter  
PPS CD M Page 369



Profile cutter  
PPS... Page 370



MICROFOX pliers for all electronics  
applications  
MICROFOX... Page 372



Stripping tool for solar cables  
WIREFOX-D SR... Page 383



CRIMPHANDY - portable hand-held  
machine,  
for stripping and crimping in just one step  
CRIMPHANDY Page 384



CRIMPFOX 4 IN 1 multi-functional crimping  
pliers  
CRIMPFOX 4 IN 1... Page 387



CRIMPFOX crimping pliers for ferrules  
CRIMPFOX... Page 389



Screwdrivers  
SZS... Page 408



SCREWFOX torque screwdrivers  
TSD-M... Page 416



SCREWFOX cordless screwdrivers  
SF-ASD Page 417



SCREWFOX preset torque screwdrivers  
TSD... Page 424



Pliers, laser marked according to customer  
specifications  
CRIMPFOX...CUS Page 437  
WIREFOX...CUS Page 439



Tool sets equipped according to customer  
requirements Page 440



Tool bags with customized  
marking Page 442



Ferrules, slip-on sleeves, cable lugs, ring  
cable lugs  
Al... Page 445  
C... Page 454

## Product range in pictures

### Automatic devices - TOOL fox



Automatic cutting device for conductors and cables  
CUTFOX 10... Page 470



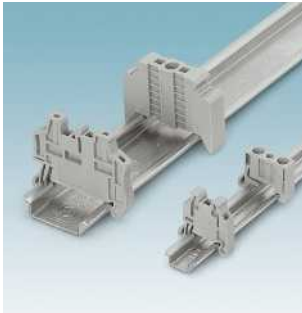
Stripping machine  
WF 1000... Page 471



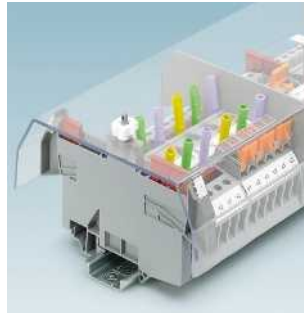
Portable crimping machine for ferrules, cable lugs, and connectors  
CF 500... Page 474



CRIMPHANDY portable hand-held device  
CF CRIMPHANDY 1,0 Page 476  
CF CRIMPHANDY 1,5 Page 477



Snap-on end brackets without screws  
CLIPPFIX... Page 520



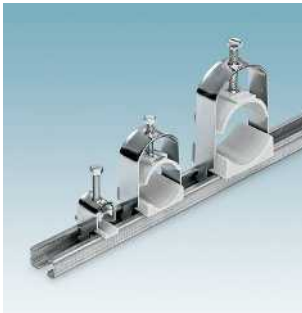
Cover profiles  
EA... Page 528  
AP... Page 526  
AU... Page 527



Power, branch, and L/N/PE connection terminal blocks  
AK.../AKG... Page 532  
EK... Page 531  
AZK 35... Page 531



Europe terminal blocks and junction box connectors  
EC... Page 534  
JBC... Page 538



DIN rail with cable clamps  
WCC... Page 557



Protective hoses made of plastic  
WP... Page 558



Screw connections for protective hoses  
WP-G HF... Page 560



Spiral hoses  
WG-S HF... Page 575

Mounting material - CABINET add-on



Portable stripping and crimping machine for taped products  
CF 3000... Page 478



CLIPSAFE stainless steel Ex terminal boxes and empty housings Page 484  
CLIPSAFE ABS terminal boxes Page 496



Ex cable glands Page 500



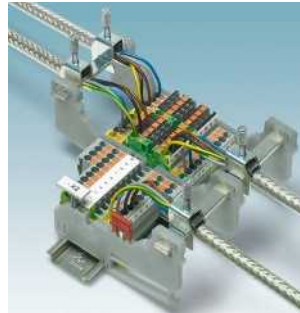
DIN rails NS... Page 508



Sockets with a 45 mm standard pitch SD-D... Page 540



Shield connection clamps SK... Page 542



Support bracket for single-sided shielding AB-SK... Page 544  
AB/SS... Page 530



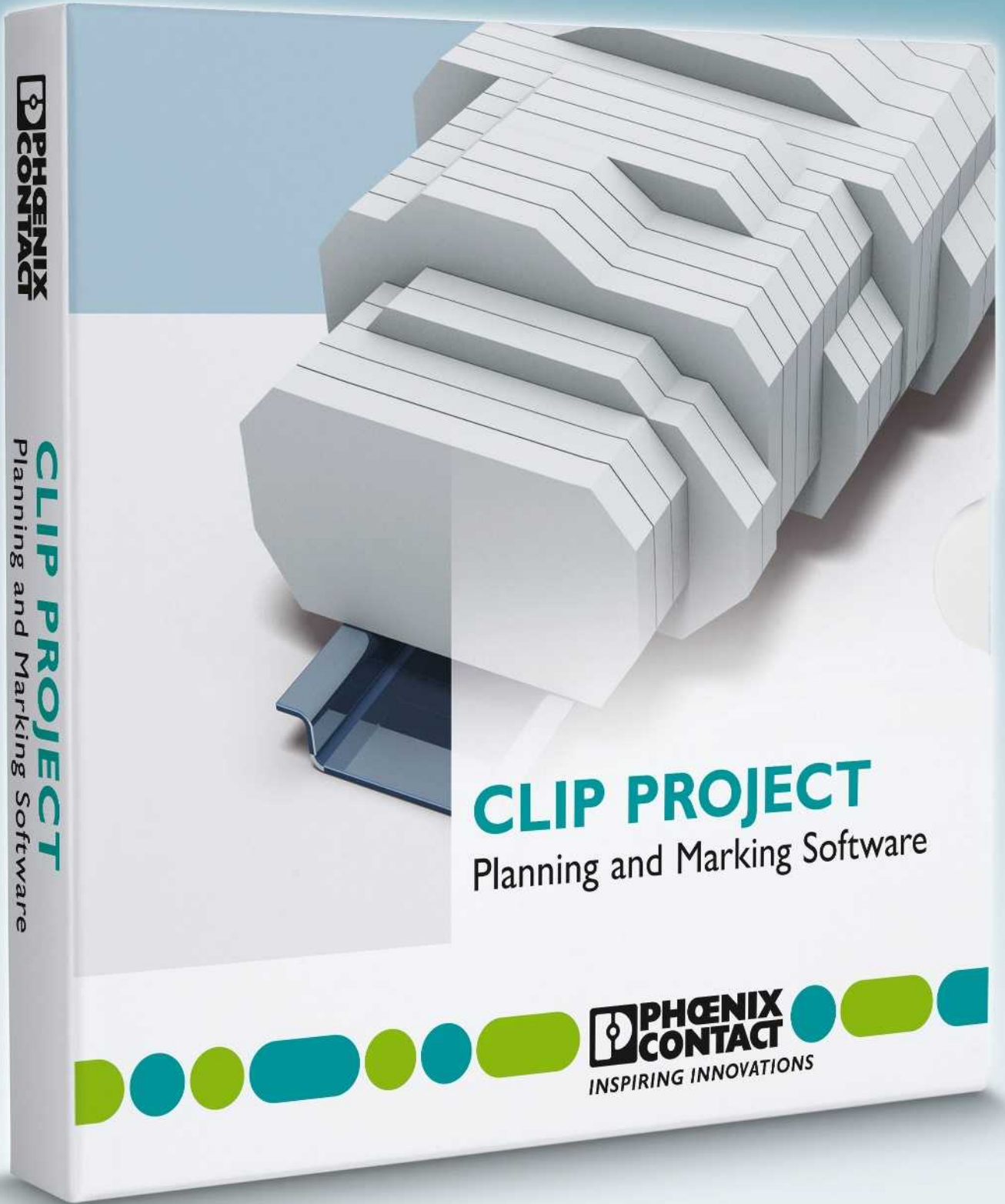
Cable ducts and accessories CD... Page 553



Plastic cable markers for insert labels KMK... Page 582



Cable binders Page 588



**PHOENIX CONTACT**

**CLIP PROJECT**  
Planning and Marking Software

# CLIP PROJECT

Planning and Marking Software

**PHOENIX CONTACT**  
INSPIRING INNOVATIONS

# Planning and marking software, customer-specific printing service, and MARKING system app

The CLIP PROJECT Planning and Marking software consists of two modules:

- CLIP PROJECT Planning enables the quick and convenient planning and configuration of fault-free terminal strips.
- CLIP PROJECT Marking is a powerful piece of software for the creation of individual labels for terminal blocks, cables, lines, devices, and systems.

Thanks to the optimum interaction between the two modules, even in connection with electrical planning systems, the result is an end-to-end process chain: from planning and documentation, right through to the finished terminal strip or the finished marking.

The advanced version, CLIP PROJECT PROFESSIONAL, also features an efficient template designer, which can be used to design custom labels.

All marking materials in the portfolio can also be ordered as customer-specific printed versions. Within no time at all, you will receive high-quality marking solutions, printed according to your individual requirements.

Which marking suits your requirements? Find out with the MARKING system app!

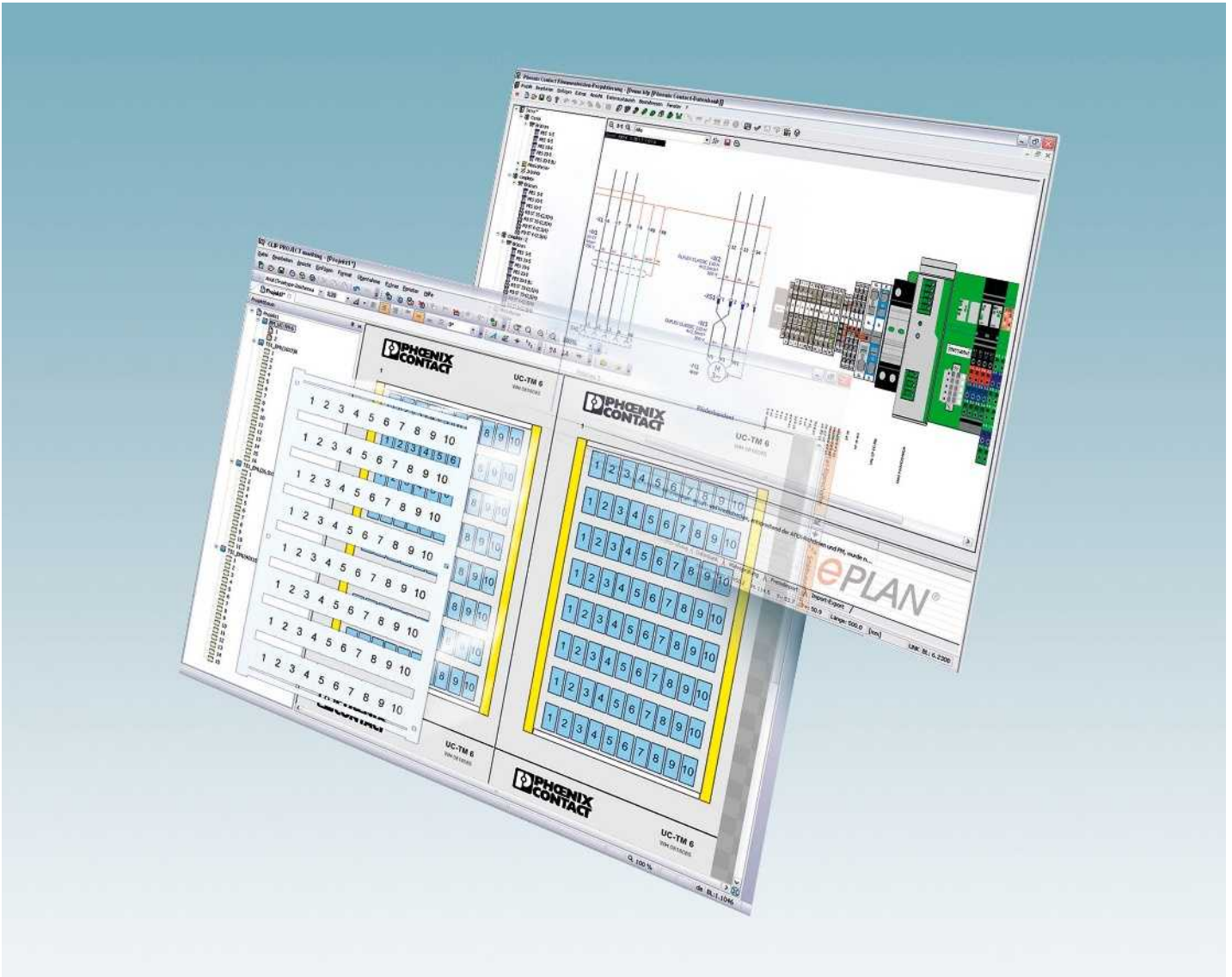
Quickly and easily find the right solution with either the structured search assistant or the integrated product scanner. Thanks to the material editor, you can also create the required markings directly in the application environment.

Expand your THERMOMARK LINE printer with the MINI FD BLUETOOTH Bluetooth USB stick and send your print orders directly and wirelessly (or via USB connection) to the printer from your tablet PC or smartphone.

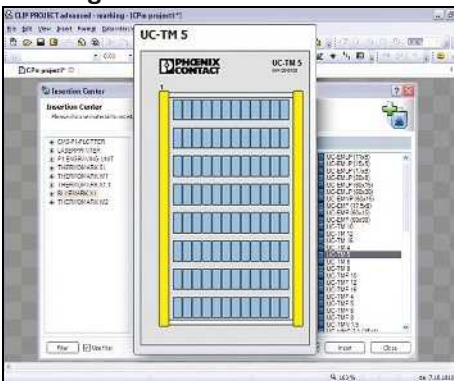
<b>CLIP PROJECT Planning and Marking software</b>	<b>16</b>
<hr/>	
CLIP PROJECT advanced	18
CLIP PROJECT professional	19
<hr/>	
<b>Customer-specific printing service</b>	<b>20</b>
<hr/>	
<b>MARKING system app</b>	<b>22</b>

# Marking and labeling - MARKING system

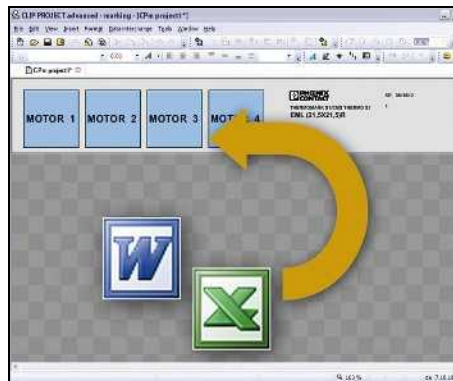
Planning and marking software, customer-specific printing service, and MARKING system app



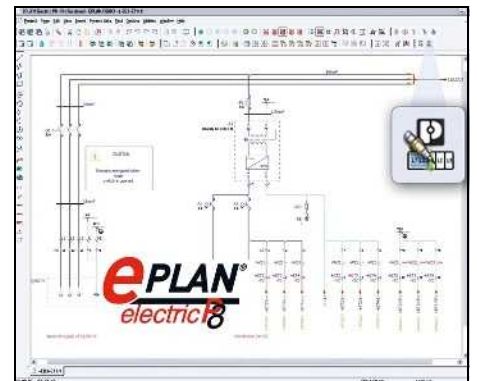
## Marking module



During selection, the marking materials are displayed as a preview for rapid product selection.



Interfaces to all CAE systems and spreadsheet and text processing programs are provided for the open exchange of data.



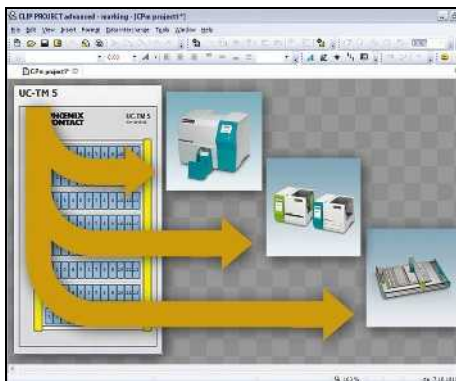
By integrating CLIP PROJECT into EPLAN P8, the marking data for terminal, conductor, and device marking can be automatically taken from the circuit diagram.



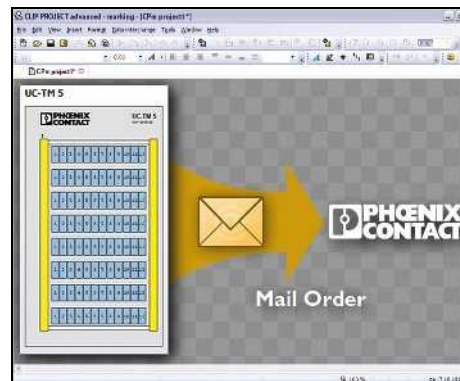
## Planning and marking software, customer-specific printing service, and MARKING system app



The online update immediately provides the user with new products and program extensions for the marking and planning module.

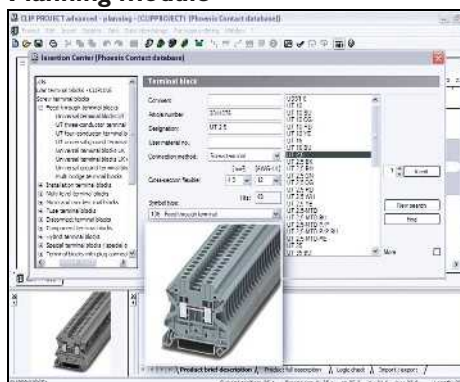


All Phoenix Contact output devices and standard office printers can be easily controlled with just one piece of software.

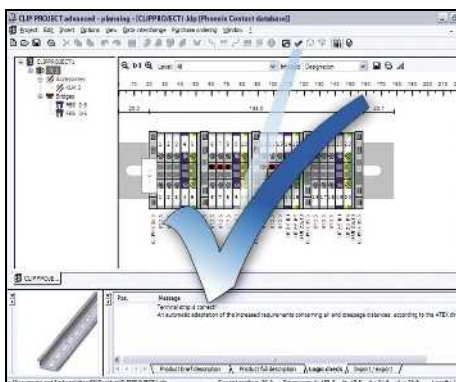


Phoenix Contact provides a marking service. Orders can be placed by e-mail and all items printed and supplied to suit the customer.

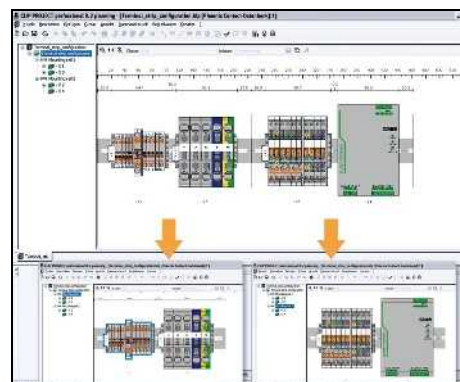
### Planning module



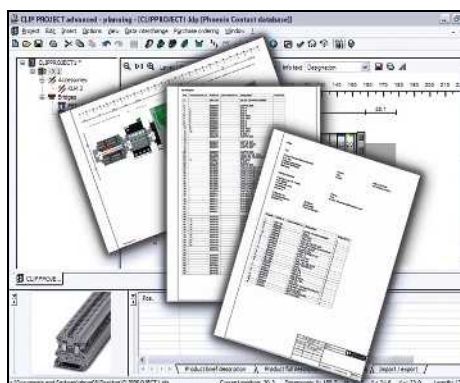
During selection, all Phoenix Contact products which can be fitted on DIN rails are displayed as a preview for rapid product selection.



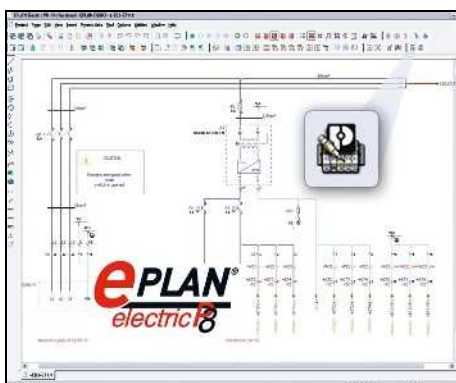
The automatic correction function checks the configured terminal strip and automatically adds any missing accessories. 2D and 3D design data are available at the click of a mouse.



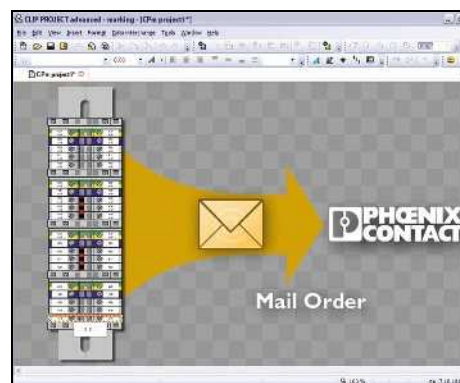
The configured terminal strips can be distributed across several DIN rails in order to determine the exact space requirements for installation.



Complete documentation and an effective 3D preview are available for rapidly and correctly producing the mechanical structure of the terminal strips.



By integrating CLIP PROJECT into EPLAN P8, terminal strips are automatically produced from the circuit diagram in CLIP PROJECT. The product data is written back to the EPLAN parts lists using the two-way interface.



Phoenix Contact provides a terminal strip service. The terminal strips configured to suit your requirements can be ordered using the e-mail function. Phoenix Contact will supply the terminal strips promptly.

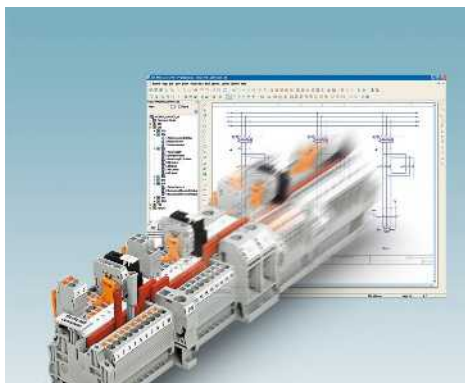
### CLIP PROJECT ADVANCED

The CLIP PROJECT ADVANCED program enables the quick planning and configuration of terminal strips for the control cabinet and field as well as custom-marking of terminal blocks, cables and lines, and devices and systems:

- Planning of terminal strips with components of the CLIPLINE, INTERFACE, TRABTECH, and AUTOMATION product ranges
- The automatic correction function performs a logical test of the terminal strips and automatically adds the necessary accessories such as covers and end brackets
- The terminal strip configurator enables the distributed arrangement of individual terminal strips on different DIN rails
- 3D preview and complete documentation of the assembled DIN rails, such as order and mounting lists
- High-performance import of marking information and extensive design options for the custom-marking of terminal blocks, cables, and lines, as well as devices and systems
- Numerous sorting and filter functions for efficient management of your print jobs
- Support for all marking materials and output devices from Phoenix Contact
- Automatic Internet update
- Intuitive Windows® user interface

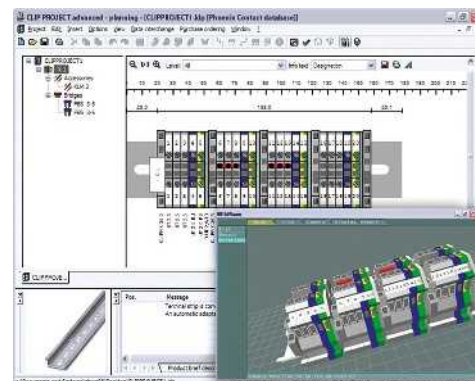
To reduce engineering costs and improve data quality, CLIP PROJECT ADVANCED supports data exchange with electrical planning systems in both directions:

- With the circuit diagram as the basis, the required products are automatically selected and their complete data written back to the parts lists
- The marking information can be automatically exported and assigned to the desired marking materials
- In order for the marking to be assigned clearly, even in the case of extensive projects, the project structure tree from the CAE system has been adopted in CLIP PROJECT; this also allows the marking to be output to sub-projects



<b>General data</b>
Software interface
<b>System requirements</b>
Operating systems
<b>Description</b>
CLIP PROJECT advanced, planning and marking software, German/English/French/Dutch/Italian/Spanish/Russian/Polish/Hungarian/Czech/Turkish/Portuguese/Chinese and Japanese

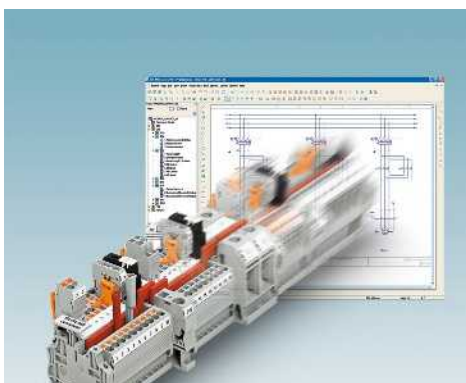
<b>Technical data</b>		
EPLAN 5.7 EPLAN Electric P8 AUCOTEC ELCAD AUCOTEC Engineering Base AUCOTEC RUPLAN ZUKEN E <sup>3</sup> Bentley Promis-e WSCAD IGE XAO PC-Schematic AUTOMATION SDProjet SPAC		
MS Windows XP SP3, MS Windows Vista, MS Windows 7 (32/64-bit), MS Windows 8 (32/64-bit)		
<b>Ordering data</b>		
<b>Type</b>	<b>Order No.</b>	<b>Pcs. / Pkt.</b>
CLIP-PROJECT ADVANCED	5146040	1



### CLIP PROJECT PROFESSIONAL

The CLIP PROJECT Planning and Marking software is available in both an **ADVANCED** and **PROFESSIONAL** version:

- The **PROFESSIONAL** version also includes an efficient template designer, which can be used to design custom labels and adapt existing material descriptions
- Graphics, various barcode types, and geometric elements such as squares, circles, and lines can be accessed for design work
- Data can also be imported into the templates from various data sources
- Rapid, simple, and flexible adaptation to changing requirements



#### General data

Software interface

#### System requirements

Operating systems

#### Description

**CLIP PROJECT professional, planning and marking software, with template designer,**  
German/English/French/Dutch/Italian/Spanish/Russian/Polish/  
Hungarian/Czech/Turkish/Portuguese/Chinese and Japanese

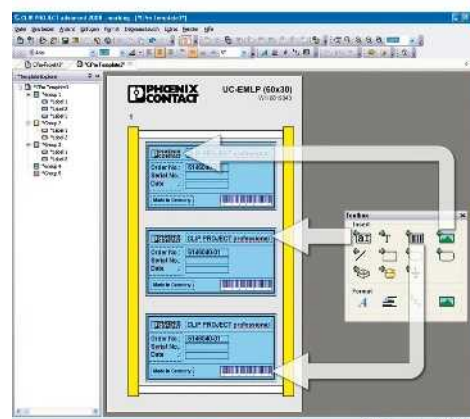
#### Technical data

EPLAN 5.7  
EPLAN Electric P8  
AUCOTEC ELCAD  
AUCOTEC Engineering Base  
AUCOTEC RUPLAN  
ZUKEN E<sup>3</sup>  
Bentley Promis-e  
WSCAD  
IGE XAO  
PC-Schematic AUTOMATION  
SDProget SPAC

MS Windows XP SP3, MS Windows Vista, MS Windows 7 (32/64-bit), MS Windows 8 (32/64-bit)

#### Ordering data

Type	Order No.	Pcs. / Pkt.
CLIP-PROJECT PROFESSIONAL	5146053	1





### Easy ordering process via CLIP PROJECT and e-mail

You can create customer-specific marking quickly and easily via CLIP PROJECT and order via e-mail.



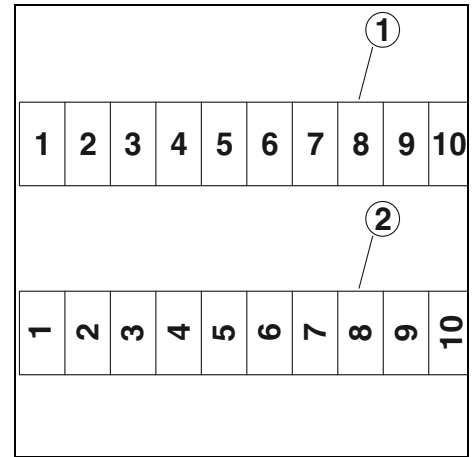
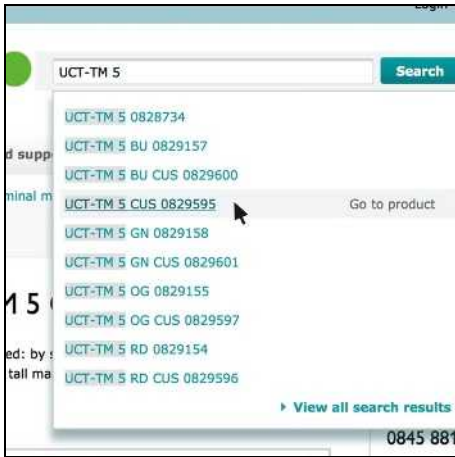
### New: color-printed marking solutions

You can use marking materials in UniCard and UniSheet format as well as metal labels for color printing.



### We create marking materials according to your requirements

All materials which can be marked according to customer requirements are indicated with this symbol. The ordering process is described for you on the following page.



**Special marking orders, step 1**

All marking materials are available on our website for your custom printing. Simply search for the required item on our website and select the material with the ending ...CUS.

**Special marking orders, step 2**

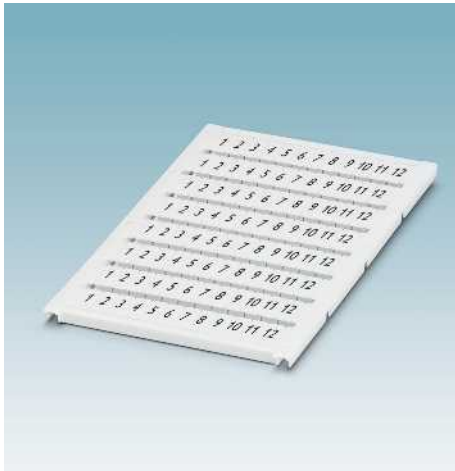
Configuration of the selected CUS item: under **Configuration**, you can enter the required marking data in the free text field.

**Tasks required:**

- Marking text
- Font size
- Read direction "horizontal" (1) or "vertical" (2)
- Normal or bold print
- Please send special characters, symbols, and logos as an image file

**Special marking orders, step 3**

- Zack marker strip (ZB...): 1 strip
- Card material (US...): 1 card
- Plastic sheet (e.g., UC(T)...): 1 sheet
- Sheet material (e.g., BMKL...): 1 sheet
- Rolls (e.g., EML (...x..)R): 1 strip (row)
- Metal labels for BLUEMARK CLED (e.g., EMP-AL...): 1 label



**Individually marked according to customer requirements:**

You will receive your marking materials, custom-marked according to the marking requirements you have provided, as quickly as possible.

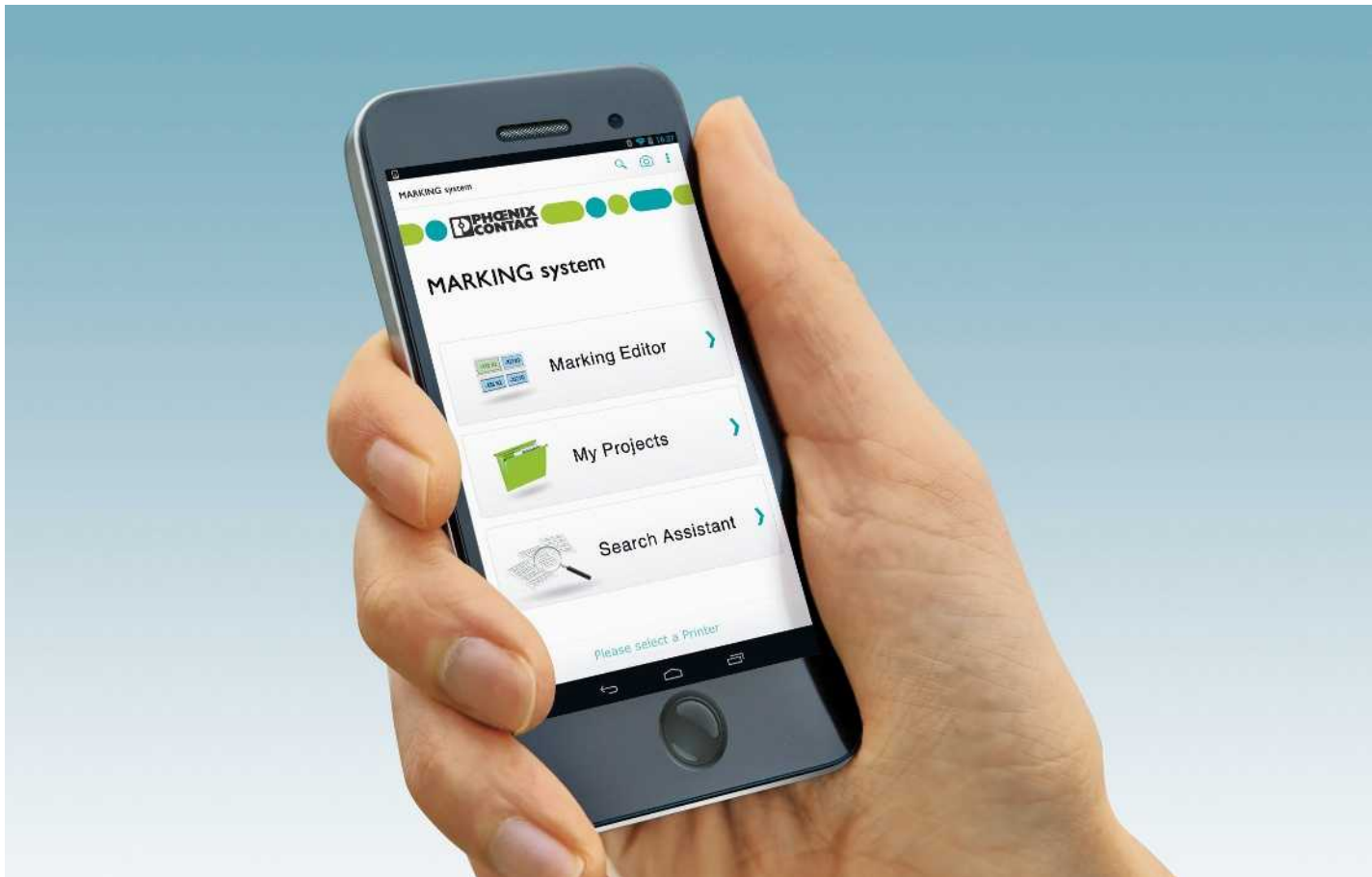
## Find out more with the web code

Detailed information on these products can be found on our website.

Simply enter # and numbers in the search field.

# Marking and labeling - MARKING system

Planning and marking software, customer-specific printing service, and MARKING system app



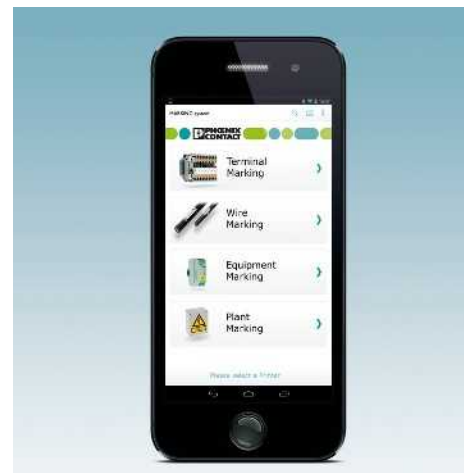
### Marking editor

The marking editor allows you to create the required markings directly in the application environment via tablet PC or smartphone.



### Product scanner

The product scanner allows you to quickly and easily call up technical data for the marking material or directly mark it via the material editor.



### Search assistant

With the search assistant, you can carry out a structured, targeted search for suitable marking materials, even without knowledge of this field.

**MARKING system app and MINI FD BLUETOOTH**



**Notes:**  
For further information on the THERMOMARK LINE printers, please refer to the product area on our website at [phoenixcontact.net/products](http://phoenixcontact.net/products).



You can retrofit your THERMOMARK LINE printer with MINI FD BLUETOOTH. MINI FD BLUETOOTH enables reliable wireless data exchange between THERMOMARK LINE printers and mobile, Bluetooth-capable devices, such as smartphones and tablet PCs. This means that print orders can be conveniently sent to the printer using the MARKING system app.

**Functions of the MARKING system app:**

- Material editor for mobile marking of marking materials
- Product scanner for calling up appropriate marking solutions quickly and conveniently
- Search assistant for searching for marking materials quickly and easily – even without knowledge of this field
- My projects: manage the projects you have created in a structured and clear manner
- List of saved items: save the required number of your desired item along with a short description for traceability
- Favorites: save frequently used marking materials
- Easily set the right print parameters from your tablet PC or smartphone

General data	
Application	USB/Bluetooth
Transmission speed	3 [Mbps]

Description
<b>Bluetooth USB adapter</b>

**Thermal transfer printer for cards**, incl. European power cable, US power cable, USB cable, DVD with CLIP PROJECT ADVANCED, CD with multilingual user manual/driver/firmware, DIN A5 printed English/German user manual, magazine for UCT-TM materials, magazine for US materials, one unit pack UCT-TM 6, one unit pack US-EMLP (85,6x54), one ink ribbon (50-meter sample roll)

**Thermal transfer printer for material off the roll**, including European power cable, US power cable, USB cable, DVD with CLIP PROJECT ADVANCED, CD with multilingual user manual/driver/firmware, A5 printed English/German user manual, one roll of EML (20x8) labels containing 1000 labels, one ink ribbon (50 meters)

**Thermal transfer printer**, incl. connecting cable, Windows® printer driver and operating instructions, software

Technical data	
USB/Bluetooth	3

Ordering data		
Type	Order No.	Pcs. / Pkt.
MINI FD BLUETOOTH	0830986	1

Accessories		
THERMOMARK CARD	5146464	1
THERMOMARK ROLL	5146477	1
THERMOMARK ROLL X1	5146723	1
THERMOMARK X1.2	5146231	1





# Marking systems - MARKING system

The right printer for every application. We can provide a wide range of marking systems for your terminal, conductor, cable, and device marking requirements. TOPMARK LASER provides permanent and resistant marking in an industrial environment and is easy to use without special laser knowledge. The BLUEMARK CLED high-speed printer with innovative UV technology prints materials quickly and easily in UniCard format as well as aluminum markers.

The printers in the THERMOMARK series are renowned for their proven maintenance-free printing method and maximum user-friendliness. They can be used to print markers in a variety of materials and print formats, as well as labels and shrink sleeves, in outstanding quality.

## Product range overview

<b>Marking systems</b>	<b>26</b>
TOPMARK LASER	28
BLUEMARK CLED	30
THERMOMARK CARD	32
THERMOMARK ROLL	36
THERMOMARK ROLL X1	37
MARKING BOX	38
THERMOMARK CARD SET and ROLL SET	39
THERMOMARK X1.2	40
THERMOMARK W2	41
CMS-P1-PLOTTER	42
CMS-P1-PLOTTER engraving unit	43
<b>Overview of marking material - printers</b>	<b>48</b>
Which printer prints which marking	



Phoenix Contact is an expert partner for control cabinet and system engineering. In this context, we aim to supplement our products with services, hardware, and software to make the planning and production of systems as efficient as possible.

MARKING system from Phoenix Contact represents an integrated marking system from planning right through to the finished printed label. In addition to the wide range of marking materials, the marking range also includes the CLIP PROJECT software as well as various printers.

The data required for marking is sent to the printers by the CLIP PROJECT planning software, which is supplied as standard. This controls the printers and facilitates the creation of marking data by allowing data to be imported directly from circuit diagrams.

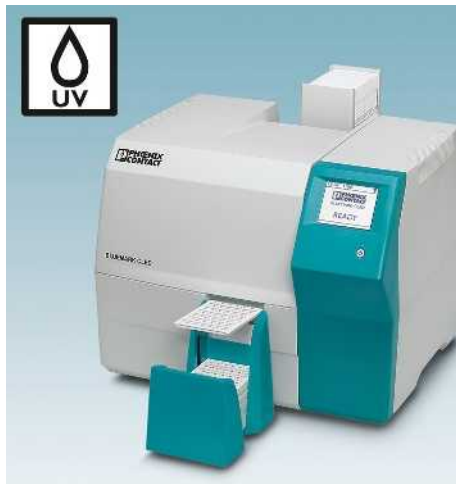
Phoenix Contact provides a variety of printing systems:

- TOPMARK LASER, laser marker for marking laser and UCT material
- BLUEMARK CLED, high-speed printer with UV technology for marking UniCard formats and aluminum markers
- THERMOMARK CARD, thermal transfer printer for marking UniCard and UniSheet formats
- THERMOMARK ROLL, thermal transfer printer for marking material off the roll and continuous media
- THERMOMARK ROLL X1, thermal transfer printer for large quantities
- THERMOMARK W2, thermal transfer printer for double-sided marking and perforation of continuous shrink sleeves
- CMS-P1-PLOTTER and P1 ENGRAVING UNIT to extend plotters for engraving

A comprehensive range of materials for marking terminal blocks, conductors, cables, and devices is available for each of the printing systems provided. As a result, each printing system represents a self-contained solution capable of performing all marking tasks in and around the control cabinet. To ensure that you benefit from consistently high levels of marking quality, all the materials offered are tailored to the devices concerned and undergo extensive testing.



The TOPMARK laser marking system provides you with the flexibility to implement the requirements of challenging industrial identification. With modern laser technology you can create permanent, durable markings with ease - preset parameters eliminate the need for special laser knowledge.



BLUEMARK CLED uses the latest UV technology for marking. This makes the markers instantly wipe-resistant and ready for immediate use. The fast printing technology enables 14,000 labels to be processed per hour. Thanks to the LED technology, the printer does not require a warm-up time, is environmentally friendly, and is also very quiet.



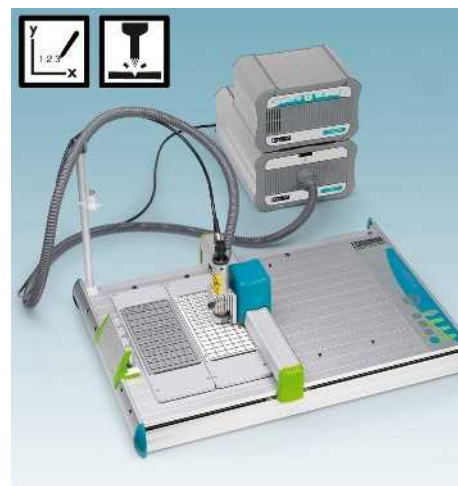
The new THERMOMARK CARD thermal transfer printer can be used to print marking materials supplied in card format. It provides you a really easy way to produce terminal, conductor, cable, and device markings of incredibly high quality. The low weight and compact design of the new printer mean that it can also be used as a portable solution wherever it is needed.



The THERMOMARK ROLL thermal transfer printer has been designed for printing material off the roll and continuous media. You can easily create high-quality printed labels, markers, and shrink sleeves. The compact printer is also suitable for mobile use. The THERMOMARK ROLL X1 is particularly suitable for marking in large quantities.



The THERMOMARK W2 has been specially developed for the double-sided printing and perforation of continuous WMS shrink sleeves. Double-sided marking ensures optimum legibility on conductors and cables. The special construction of the guide elements ensures easy handling when inserting the sleeve.



Apart from label strips and UniCard materials, the CMS-P1-PLOTTER can also be used to label sheet materials. Its integrated pen station facilitates handling and helps prevent the pens from drying out. The CMS-P1-PLOTTER can be converted into an engraving unit quickly and easily by swapping the plotter head for the engraving device.

## Marking systems

### TOPMARK LASER set, desktop laser marker including extraction unit and notebook



Direct laser marking



Integration in the Planning and Marking Software makes the TOPMARK LASER the fastest desktop laser marker in its class - and the easiest to use. You can now mark all materials without special knowledge of laser technology.

- Wide range of materials comprising stainless steel, aluminum, ABS, polyacrylics, and polycarbonate
- Preset optimized laser parameters are available for all material types
- Automatic material detection with the UCT cards enables fast and effective marking
- Permanent markings are created using engraving marking, annealing marking or carbonizing the material

Dimensions	
	[mm]
General data	
Temperature range	[°C]
Marking method	Direct laser marking
Laser system	Ytterbium fiber laser, pulsed, 1064 nm
Laser class	Laser class 1 according to EN 60825-1 classification
Interfaces	10/100 Mbps Ethernet
Power supply	[V]
Weight	[kg]
Operating systems	MS Windows XP SP3, MS Windows Vista, MS Windows 7 (32/64-bit), MS Windows 8 (32/64-bit)
Power consumption	[W]
CW laser power (continuous wave)	[W]

Technical data		
Width	Length	Height
664	666	736

Description	Color
<b>Laser marker and MARKING NOTEBOOK</b> , incl. CLIP PROJECT professional software and installed drivers, user manual, sheet hopper, card hopper and 230 V extraction unit	
With German operating system and German keyboard	

Ordering data		
Type	Order No.	Pcs. / Pkt.
TOPMARK LASER	0831831	1

<b>Carriage</b> , for accommodating TOPMARK LASER, extraction unit, and MARKING NOTEBOOK
<b>Sheet hopper</b> , for TOPMARK LASER
<b>Magazine for the TOPMARK LASER</b> , for accommodating UCT material automatically
<b>Magazine for the TOPMARK LASER</b> , for accommodating UCT material manually
<b>Extraction unit:</b> 230 V 120 V
<b>Pre-filter pad</b> , for replacement
<b>HEPA filter</b> , for replacement
<b>Activated carbon filter</b> , for replacement
<b>USB stick</b> , for software control of the TOPMARK LASER
<b>MP-TEC fine particle filter</b> , for replacement
<b>Suction tube</b> , for replacement, length: 2.5 m
<b>Connecting cable</b> , for replacement

Accessories		
Type	Order No.	Pcs. / Pkt.
TOPMARK LASER STATION	0831835	1
TOPMARK LASER-MAG SHEET	0831836	1
TOPMARK LASER-MAG UCT-A	0803141	1
TOPMARK LASER-MAG UCT-M	0803143	1
TOPMARK LASER EXTRACTION 230V	0803302	1
TOPMARK LASER EXTRACTION 120V	0803327	1
TOPMARK LASER PRE FILTER SET	0803303	1
TOPMARK LASER HEPA FILTER	0803305	1
TOPMARK LASER CARBON FILTER	0803306	1
TOPMARK LASER FD	0803307	1
TOPMARK LASER MP-TEC FILTER	0803308	1
TOPMARK LASER TUBE	0803309	1
TOPMARK LASER CLEANING NOZZLE	0803310	1



new

**TOPMARK LASER set, desktop laser marker including extraction unit and notebook**



Direct laser marking



The TOPMARK LASER marking system provides you with the flexibility to implement the requirements of challenging industrial identification.

- Includes the TOPMARK LASER laser marking system, for all materials in UniCard (UCT) card format as well as the laser sheets, with applied metals and plastic materials
- Includes an extraction unit 230 V, US version 120 V
- Includes a powerful notebook with pre-installed CLIP PROJECT configuration and marking software
- Comes in the relevant language versions according to the country-specific versions

Dimensions	
	[mm]
General data	
Temperature range	[°C]
Marking method	
Laser system	
Laser class	
Interfaces	
Power supply	[V]
Weight	[kg]
Operating systems	
Power consumption	[W]
CW laser power (continuous wave)	[W]

Technical data		
Width	Length	Height
664	630	682
5 ... 40		
Direct laser marking		
Ytterbium fiber laser, pulsed, 1064 nm		
Laser class 1 according to EN 60825-1 classification		
-		
100 ... 240		
105		
MS Windows XP SP3, MS Windows Vista, MS Windows 7 (32/64-bit), MS Windows 8 (32/64-bit)		
450		
20		

Description	Color
<b>Laser marker and MARKING NOTEBOOK</b> , incl. CLIP PROJECT professional software and installed drivers, user manual, sheet hopper, card hopper and 230 V extraction unit	
with German operating system and Swiss keyboard	
with Russian operating system and Russian keyboard	
with Swedish operating system and Swedish keyboard	
with Danish operating system and Danish keyboard	
with Chinese operating system and US international keyboard	
with Polish operating system and US international keyboard	
with French operating system and French keyboard	
with Italian operating system and Italian keyboard	
with Spanish operating system and Spanish keyboard	
with Portuguese operating system and Portuguese keyboard	
with English operating system and Belgian keyboard	
with English operating system and US international keyboard	
with English operating system and US international keyboard	
with Hungarian operating system and Hungarian keyboard	

Ordering data		
Type	Order No.	Pcs. / Pkt.
TOPMARK LASER DE CH	0803285	1
TOPMARK LASER RU RU	0803286	1
TOPMARK LASER SE SE	0803287	1
TOPMARK LASER DK DK	0803288	1
TOPMARK LASER CN US	0803289	1
TOPMARK LASER PL US	0803290	1
TOPMARK LASER FR FR	0803291	1
TOPMARK LASER IT IT	0803292	1
TOPMARK LASER ES ES	0803293	1
TOPMARK LASER PT PT	0803295	1
TOPMARK LASER EN BE	0803296	1
TOPMARK LASER US	0803297	1
TOPMARK LASER EN	0803298	1
TOPMARK LASER HU HU	0803299	1

### BLUEMARK CLED



#### MARKING system

The new BLUEMARK CLED makes marking standardized UniCard material for terminal blocks, conductors, and device marking as easy as printing on paper. The printer receives marking data directly from your CAE system via the CLIP PROJECT central planning and marking software.

#### Simple operation

- Order-specific printing, thanks to large exchangeable magazine for up to 40 marker sheets
- Printing can be rotated by 180° as required, thanks to automatic material detection
- The front feed enables individual sheets to be marked regardless of how the magazine is assembled



#### Easy operation

- Thanks to large color touch screen
- Direct entry of data and commands
- Clear symbols and plain text messages
- Ready to print as soon as device is switched on
- Language selection via touchscreen menu

#### CLED – compact UV LED printing technology

Printing fluid is exposed to UV light which is the basis of our quick-dry printing concept. This light is generated with high intensity using 24 LEDs on a surface of 1 cm<sup>2</sup>.

- Excellent printing quality
- No drying time
- High wipe and abrasion resistance
- Excellent resistance to chemicals
- Environmentally friendly, as solvent-free system



UV LED technology

#### Dimensions

General data	[mm]
Temperature range	[°C]
Print method	
Volume	
Pressure capacity	
Interfaces	
Power supply	[V]
Weight	[kg]
Operating systems	
Power consumption	[W]

#### Description

Color

**Printer with solvent-free LED UV technology**, including CLIP PROJECT advanced software, collection container for 20 sheets, CD with multilingual user manual, English/German user manual, driver and firmware, European and US power cable, USB cable

**Set**, consisting of: 1 x BLUEMARK CLED, Order No. 5147999, 1 x MARKING NOTEBOOK, CLIP-PROJECT PROFESSIONAL

With German operating system and German keyboard

With English operating system and English keyboard

**Accommodating box**, in conjunction with the BLUEMARK CLED-MAG 40, for accommodating 90 UC or UCT sheets

**Fluid cartridge**, replacement, 20 ml printing fluid, black

#### Exchangeable magazine

For accommodating 20 UC or UCT sheets

For accommodating 40 UC or UCT sheets

**Magazine for the BLUEMARK printer**, for accommodating UM materials

#### Compartment

For accommodating 20 UC or UCT sheets

**Transport case**, with aluminum edges, for printer and accessories

#### Magazines for marking aluminum markers

#### Notes:

An application video can be found in the download area for the relevant product on our website at [phoenixcontact.net/products](http://phoenixcontact.net/products).



Printers



Printing set for cards



Accomodating box

ERC

ERC

Technical data		
Width	Length	Height
480	500	330

Technical data		
Width	Length	Height
480	500	330

Technical data		
Width	Length	Height
400	470	160

5 ... 35  
 UV LED technology  
 20 ml  
 Approx. 14,000 markers/h (UC-TMF 4 with 2 characters/marker)  
 10/100 Mbps Ethernet / USB 2.0  
 100 ... 240 / 50 Hz ... 60 Hz  
 16  
 MS Windows XP SP3, MS Windows Vista, MS Windows 7 (32/64-bit), MS Windows 8 (32/64-bit)  
 74

5 ... 35  
 UV LED technology  
 20 ml  
 Approx. 14,000 markers/h (UC-TMF 4 with 2 characters/marker)  
 10/100 Mbps Ethernet  
 100 ... 240 / 50 Hz ... 60 Hz  
 16  
 MS Windows XP SP3, MS Windows Vista, MS Windows 7 (32/64-bit), MS Windows 8 (32/64-bit)  
 74

-  
 -  
 -  
 -  
 -  
 -  
 -

Ordering data		
Type	Order No.	Pcs. / Pkt.
BLUEMARK CLED	5147999	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
BLUEMARK CLED SET	5147400	1
BLUEMARK CLED SET EN	5147401	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
BLUEMARK CLED-BASE	5146669	1

Accessories		
Type	Order No.	Pcs. / Pkt.
BLUEMARK CLED-FLUID-CARTR.	5146662	1
BLUEMARK CLED-MAG 20	5146655	1
BLUEMARK CLED-MAG 40	5146668	1
BLUEMARK MAG UM-TM	0803335	1
BLUEMARK CLED-STACKER 20	5146656	1
BLUEMARK CLED CASE	5146725	1

Accessories		
Type	Order No.	Pcs. / Pkt.
BLUEMARK CLED-FLUID-CARTR.	5146662	1
BLUEMARK CLED-MAG 20	5146655	1
BLUEMARK CLED-MAG 40	5146668	1
BLUEMARK MAG UM-TM	0803335	1
BLUEMARK CLED-STACKER 20	5146656	1
BLUEMARK CLED CASE	5146725	1

Accessories		
Type	Order No.	Pcs. / Pkt.

See page 160

See page 160

## Marking systems

### THERMOMARK CARD, thermal transfer printer for sheet materials and cards



Thermal transfer for sheets and cards



- The THERMOMARK CARD can print markers supplied in card format for cable, device, and system marking applications
- For all UniCard (UCT) and UniSheet (US) materials
- Maintenance-free operation with tried-and-tested thermal transfer printing technology
- High-quality, fast marking. Printing time for one UniCard: just 8 seconds
- Easy operating concept based on straightforward touchscreen entry
- USB and Ethernet connections
- Easy to control with the CLIP PROJECT software

**Notes:**  
An application video can be found in the download area for the relevant product on our website at [phoenixcontact.net/products](http://phoenixcontact.net/products).

CCC ENEC CB

Dimensions	
	[mm]
General data	
Temperature range	[°C]
Print resolution	[dpi]
Max. print width	[mm]
Interfaces	
Power supply	[V]
Weight	[kg]
Operating systems	

Technical data		
Width	Length	Height
253	320	189
5 ... 35	300 dpi	104
10/100 Mbps Ethernet / USB 2.0	100 ... 240 / 50 Hz ... 60 Hz	6
MS Windows XP SP3, MS Windows Vista, MS Windows 7 (32/64-bit), MS Windows 8 (32/64-bit)		

Description	Color
Thermal transfer printer for cards, incl. European power cable, US power cable, USB cable, DVD with CLIP PROJECT ADVANCED, CD with multilingual user manual/driver/firmware, DIN A5 printed English/German user manual, magazine for UCT-TM materials, magazine for US materials, one unit pack UCT-TM 6, one unit pack US-EMLP (85,6x54), one ink ribbon (50-meter sample roll)	gray

Ordering data		
Type	Order No.	Pcs. / Pkt.
THERMOMARK CARD	5146464	1

Transport case	
Ink ribbon, length: 300 m, width: 110 mm	black
Ink ribbon, specially for US-PML..., US-EMLF..., Length: 240 m, width: 110 mm	white

Accessories		
Type	Order No.	Pcs. / Pkt.
TL CASE	0800613	1
THERMOMARK-RIBBON 110-TC	0801371	1
TM-RIBBON 110-TC/TR WH	1014402	1



Magazine for THERMOMARK CARD



Thermal transfer for sheets and cards



- Robust magazines for UniCard marking material
- The format automatically ensures printing with a high level of positional accuracy
- Even compatible with marking sheets that have already been started

Description
<b>Magazine</b> , for THERMOMARK CARD ... for accommodating: UCT-TM ..., UCT1-TM ..., UCT5-TM ..., UCT-EM (5X10), UCT-EM (6X10)
<b>Magazine</b> , for THERMOMARK CARD ..., for accommodating: UCT-TMF ...
<b>Magazine</b> , for THERMOMARK CARD ..., for accommodating: UCT-WMS ...
<b>Plastic magazine</b> , for THERMOMARK CARD ..., for accommodating: UCT1-TMF...
<b>Plastic magazine</b> , for THERMOMARK CARD ..., for accommodating: UCT2-TM ...
<b>Magazine</b> , for THERMOMARK CARD ..., for accommodating: UCT3-TM ...
<b>Magazine</b> , for THERMOMARK CARD ..., for accommodating UCT-WMT ... sheets, UCT-EM (17X10)
<b>Magazine</b> , for THERMOMARK CARD ... for accommodating UCT-EM (17,5X8), UCT-EM (20X7), UCT-EM (15X10) for accommodating UCT-EM (12X3.3), UCT-EM (12X6)  for accommodating UCT-EM (17X10) and (20X8)
<b>Magazine</b> , for THERMOMARK CARD ... for accommodating UCT-EM (10X8), UCT-EM (12X7) for accommodating UCT-EM (10X5) for accommodating UCT-EM (21X8) and UCT EM (17X8)
<b>Magazine</b> , for THERMOMARK CARD ... for accommodating UCT-EM (20 x 9) for accommodating UCT-EM (17 x 9) for accommodating UCT-EM (18 x 8)
<b>Magazine</b> , for THERMOMARK CARD ... for accommodating UCT-EM (17,5X7,5) for accommodating UCT-EM (10 x 7), UCT-WMTB (29 x 8) for accommodating UCT-EM (17,5X9)
<b>Magazine</b> , for THERMOMARK CARD ... for accommodating UCT6M-TM ... for accommodating UCT6R-TM ...
<b>Magazine</b> , for THERMOMARK CARD ..., for accommodating: UCT-WMCO...(12 x 4)
for accommodating UCT-EMP ... for accommodating: UCT-WMTBA ...
<b>Magazine</b> for the THERMOMARK CARD printer, for accommodating: UCT sheets (UCT-WMCO...(18 x 4))

Ordering data		
Type	Order No.	Pcs. / Pkt.
THERMOMARK CARD-UCT-MAG1	5146480	1
THERMOMARK CARD-UCT-MAG2	5146563	1
THERMOMARK CARD-UCT-MAG3	5146613	1
THERMOMARK CARD-UCT-MAG4	5146614	1
THERMOMARK CARD-UCT-MAG5	5146615	1
THERMOMARK CARD-UCT-MAG6	5146616	1
THERMOMARK CARD-UCT-MAG7	0801734	1
THERMOMARK CARD-UCT-MAG8	0801735	1
THERMOMARK CARD-UCT-MAG9	0801736	1
THERMOMARK CARD-UCT-MAG10	0801737	1
THERMOMARK CARD-UCT-MAG11	0801738	1
THERMOMARK CARD-UCT-MAG12	0830399	1
THERMOMARK CARD-UCT-MAG13	0830400	1
THERMOMARK CARD-UCT-MAG14	0830401	1
THERMOMARK CARD-UCT-MAG15	0830402	1
THERMOMARK CARD-UCT-MAG16	0830403	1
THERMOMARK CARD-UCT-MAG17	0830404	1
THERMOMARK CARD-UCT-MAG18	0830405	1
THERMOMARK CARD-UCT-MAG20	0830751	1
THERMOMARK CARD-UCT-MAG22	0830771	1
THERMOMARK CARD-UCT-MAG23	0830808	1
THERMOMARK CARD-UCT-MAG24	0830809	1
THERMOMARK CARD-UCT-MAG25	0802935	1
THERMOMARK CARD-UCT-MAG26	0802988	1
THERMOMARK CARD-UCT-MAG27	0802989	1
THERMOMARK CARD-UCT-MAG28	0803205	1

### Magazine for THERMOMARK CARD



Thermal transfer for sheets and cards



- Robust magazine for UniSheet marking material
- The format automatically ensures printing with a high level of positional accuracy
- Even compatible with marking sheets that have already been started

Description  
**Magazine**, for THERMOMARK CARD..., for accommodating all US-materials

#### Ordering data

Type	Order No.	Pcs. / Pkt.
THERMOMARK CARD-US-MAG1	5146451	1

Magazine for THERMOMARK CARD

new



Thermal transfer for sheets and cards



- Robust magazine for universal material
- For accommodating up to 4 double strips per magazine
- The format automatically ensures printing with a high level of positional accuracy
- Marking strips that have already been started can also be used

Description
<b>Magazine</b> , for THERMOMARK CARD ... for accommodating UM1-TM ..., UM5-TM...
<b>Magazine</b> for THERMOMARK CARD for accommodating UM1-TMF ...
<b>Magazine</b> for THERMOMARK CARD for accommodating UM1U-TM ...
for accommodating UM2-TM...
for accommodating UM3-TM...
for accommodating UM6M-TM...
for accommodating UM6R-TM...
for accommodating UM8-TM...
<b>Magazine</b> for THERMOMARK CARD for accommodating UM7-TM...

Ordering data		
Type	Order No.	Pcs. / Pkt.
TMP-UM-MAG1	0831200	1
TMP-UM-MAG3	0831202	1
TMP-UM-MAG4	0831203	1
TMP-UM-MAG5	0803328	1
TMP-UM-MAG6	0803329	1
TMP-UM-MAG7	0803330	1
TMP-UM-MAG8	0803331	1
TMP-UM-MAG9	0803332	1
TMP-UM-MAG10	0803334	1

## Marking systems

### THERMOMARK ROLL, thermal transfer printer for material off the roll



Thermal transfer for rolls



- The THERMOMARK ROLL can print markers supplied on rolls in the context of terminal, conductor, cable, and device marking applications
- For all labels and shrink sleeves
- Maintenance-free operation with tried-and-tested thermal transfer printing technology
- High-quality, fast marking
- Easy operating concept based on straightforward touchscreen entry
- USB and Ethernet connections
- Easy to control with the CLIP PROJECT software

#### Notes:

An application video can be found in the download area for the relevant product on our website at [phoenixcontact.net/products](http://phoenixcontact.net/products).

CCC ENEC CB

#### Technical data

Dimensions		Width	Length	Height
	[mm]	253	320	189
General data				
Temperature range	[°C]	5 ... 40		
Print resolution	[dpi]	300 dpi		
Max. print width	[mm]	104		
Max. printing length	[mm]	1000		
Interfaces		10/100 Mbps Ethernet / USB 2.0		
Power supply	[V]	100 ... 240 / 50 Hz ... 60 Hz		
Weight	[kg]	4		
Operating systems		MS Windows XP SP3, MS Windows Vista, MS Windows 7 (32/64-bit), MS Windows 8 (32/64-bit)		

#### Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
<b>Thermal transfer printer for material off the roll</b> , including European power cable, US power cable, USB cable, DVD with CLIP PROJECT ADVANCED, CD with multilingual user manual/driver/firmware, A5 printed English/German user manual, one roll of EML (20x8) labels containing 1000 labels, one ink ribbon (50 meters)	gray	<b>THERMOMARK ROLL</b>	<b>5146477</b>	<b>1</b>

#### Accessories

<b>Cutter</b> , can be retrofitted, for precise cutting of continuous media into required lengths		<b>THERMOMARK ROLL-CUTTER</b>	<b>5146422</b>	<b>1</b>
<b>Cutter</b> , can be retrofitted, for perforating continuous media		<b>THERMOMARK ROLL-CUTTER/P</b>	<b>5146435</b>	<b>1</b>
<b>External media hub</b> , for roll diameters of 150 mm to 400 mm		<b>THERMOMARK ROLL-ERH</b>	<b>5146448</b>	<b>1</b>
<b>External media hub</b> , for roll diameters of up to 500 mm		<b>THERMOMARK-ERH 500</b>	<b>5146309</b>	<b>1</b>
<b>Ink ribbon</b> , length: 300 m, width: 110 mm	black blue green red	<b>THERMOMARK-RIBBON 110</b> <b>THERMOMARK-RIBBON 110 BU</b> <b>THERMOMARK-RIBBON 110 GN</b> <b>THERMOMARK-RIBBON 110 RD</b>	<b>5145384</b> <b>0829544</b> <b>0829542</b> <b>0829543</b>	<b>1</b> <b>1</b> <b>1</b> <b>1</b>
<b>Ink ribbon</b> , specifically for high-temperature labels, EML-HT...	black	<b>THERMOMARK-RIBBON 110-EML-HT</b>	<b>0800342</b>	<b>1</b>
<b>Ink ribbon</b> , specifically for WMS... shrink sleeves, length: 300 m, width: 110 mm	black white	<b>THERMOMARK-RIBBON 110-WMSU</b> <b>THERMOMARK-RIBBON 110-WMSU WH</b>	<b>0801358</b> <b>0801359</b>	<b>1</b> <b>1</b>
<b>Ink ribbon</b> , specifically for WMS... shrink sleeves, length: 300 m, width: 64 mm	black white	<b>TM-RIBBON 110-EX</b> <b>THERMOMARK-RIBBON 64-WMSU</b> <b>THERMOMARK-RIBBON 64-WMSU WH</b>	<b>0803211</b> <b>0801360</b> <b>0801361</b>	<b>1</b> <b>1</b> <b>1</b>
<b>Ink ribbon</b> , specifically for cable markers for assembly with cable binders, WMTB HF..., length: 300 m, width: 110 mm	black white	<b>THERMOMARK-RIBBON 110-WMTB HF</b> <b>TM-RIBBON 110-WMTB HF WH</b>	<b>5148007</b> <b>0802990</b>	<b>1</b> <b>1</b>
<b>Transport case</b>	silver	<b>TL CASE</b>	<b>0800613</b>	<b>1</b>

**THERMOMARK ROLL X1, thermal transfer printer for material off the roll**



Thermal transfer for rolls



The THERMOMARK ROLL X1 printer is suitable for marking large quantities and provides the following features:

- Accommodates large rolls; inside the printer housing, the label rolls are protected against environmental influences such as dust and dirt
- For all labels and shrink sleeves
- Maintenance-free operation with tried-and-tested thermal transfer printing technology
- High-quality, fast marking
- Easy operating concept based on straightforward touchscreen entry
- USB and Ethernet connections
- Easy to control with the CLIP PROJECT software
- Printing and dispensing labels on request or automatically after removing the label with the THERMOMARK ROLL X1 - DISPENSER

**Cutting to length or perforating is easy**

- Continuous media can be cut or perforated with a high degree of positioning accuracy (see figure below)



CCC ENEC CB

**Technical data**

Dimensions	[mm]	Width	Length	Height
		264	412	245
General data				
Temperature range	[°C]	5 ... 40		
Print resolution	[dpi]	300 dpi		
Max. print width	[mm]	104		
Max. printing length	[mm]	1000		
Interfaces		10/100 Mbps Ethernet / USB 2.0		
Power supply	[V]	100 ... 240 / 50 Hz ... 60 Hz		
Weight	[kg]	5		
Operating systems		MS Windows XP SP3, MS Windows Vista, MS Windows 7 (32/64-bit), MS Windows 8 (32/64-bit)		

**Ordering data**

Description	Color	Type	Order No.	Pcs. / Pkt.
<b>Thermal transfer printer for material off the roll</b> , including European power cable, US power cable, USB cable, DVD with CLIP PROJECT ADVANCED, CD with multilingual user manual/driver/firmware, A5 printed English/German user manual, one roll of EML (20x8) labels containing 1000 labels, one ink ribbon (50 meters)	gray	THERMOMARK ROLL X1	5146723	1

**Accessories**

<b>Cutter</b> , can be retrofitted, for precise cutting of continuous media into required lengths		THERMOMARK ROLL X1 CUTTER	5146765	1
<b>Perforation device</b> , can be retrofitted, for perforating and cutting continuous media		THERMOMARK ROLL X1 CUTTER/P	5146766	1
<b>Label dispenser</b> , dispensing device for labels with a height of 10 mm or more		THERMOMARK ROLL X1 -DISPENSER	1014401	1
<b>Ink ribbon</b> , length: 300 m, width: 110 mm	black	THERMOMARK-RIBBON 110	5145384	1
	blue	THERMOMARK-RIBBON 110 BU	0829544	1
	green	THERMOMARK-RIBBON 110 GN	0829542	1
	red	THERMOMARK-RIBBON 110 RD	0829543	1
<b>Ink ribbon</b> , specifically for high-temperature labels, EML-HT...	black	THERMOMARK-RIBBON 110-EML-HT	0800342	1
<b>Ink ribbon</b> , specifically for WMS... shrink sleeves, length: 300 m, width: 110 mm	black	THERMOMARK-RIBBON 110-WMSU	0801358	1
	white	THERMOMARK-RIBBON 110-WMSU WH	0801359	1
<b>Ink ribbon</b> , specifically for WMS... shrink sleeves, length: 300 m, width: 64 mm	black	THERMOMARK-RIBBON 64-WMSU	0801360	1
	white	THERMOMARK-RIBBON 64-WMSU WH	0801361	1
<b>Ink ribbon</b> , specifically for cable markers for assembly with cable binders, WMTB HF..., length: 300 m, width: 110 mm	black	THERMOMARK-RIBBON 110-WMTB HF	5148007	1
<b>Ink ribbon</b> , length: 300 m, width: 110 mm, color: black	black	TM-RIBBON 110-EX	0803211	1
<b>Transport case</b>	silver	THERMOMARK ROLL X1-CASE	5146724	1

### THERMOMARK printer sets



Thermal transfer for sheets and cards



Thermal transfer for rolls



Printing set, complete

MARKING BOX is the complete marking system for all terminal, conductor, cable, and device marking applications. It is available for different country-specific keyboards and operating systems.

- Includes the THERMOMARK CARD printer for all materials in the UniCard (UCT) and UniSheet (US) formats
- Includes the THERMOMARK ROLL printer for all labels and shrink sleeves supplied in rolls
- Includes a powerful notebook with pre-installed CLIP PROJECT configuration and marking software, as well as the printer drivers required to enable quick startup without any need for installation and setup work. Plug and print. Simply connect the devices via USB and you're ready to print
- The compact and robust THERMOMARK printers are optimally suited to mobile use on site

**Notes:**  
An application video can be found in the download area for the relevant product on our website at [phoenixcontact.net/products](http://phoenixcontact.net/products).

Description
<b>Set</b> , consisting of: 1 x THERMOMARK CARD, Order No. 5146464, 1 x THERMOMARK ROLL, Order No. 5146477, 1 x MARKING NOTEBOOK, CLIP-PROJECT PROFESSIONAL
German operating system and keyboard
English operating system and US international keyboard
<b>Printing set</b> , consisting of: 1 x THERMOMARK CARD, Order No. 5146464, 1 x MARKING NOTEBOOK, CLIP-PROJECT PROFESSIONAL
German operating system and keyboard
English operating system and US international keyboard
<b>Printing set</b> , consisting of: 1 x THERMOMARK ROLL, Order No. 5146477, 1 x MARKING NOTEBOOK, CLIP-PROJECT PROFESSIONAL
German operating system and keyboard
English operating system and US international keyboard
<b>Versions</b>
German operating system and Swiss keyboard
English operating system and Belgian keyboard
French operating system and keyboard
Spanish operating system and keyboard
Italian operating system and keyboard
Polish operating system and US international keyboard
Hungarian operating system and keyboard
Portuguese operating system and keyboard
Russian operating system and keyboard
Danish operating system and keyboard
Swedish operating system and keyboard

Ordering data		
Type	Order No.	Pcs. / Pkt.
MARKING BOX	5147100	1
MARKING BOX EN	5147101	1
MARKING BOX DE CH	0801749	1
MARKING BOX EN BE	0801742	1
MARKING BOX FR FR	0801590	1
MARKING BOX ES ES	0801747	1
MARKING BOX IT IT	0801745	1
MARKING BOX PL US	0801744	1
MARKING BOX HU HU	0801750	1
MARKING BOX PT PT	0801748	1
MARKING BOX RU RU	0801739	1
MARKING BOX DK DK	0801741	1
MARKING BOX SE SE	0801740	1

Printer accessories

**Accessories**  
[phoenixcontact.net/products](http://phoenixcontact.net/products)



Printing set for cards



Printing set for material provided on rolls

Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
THERMOMARK CARD SET	5147200	1			
THERMOMARK CARD SET EN	5147201	1			
			THERMOMARK ROLL SET	5147300	1
			THERMOMARK ROLL SET EN	5147301	1
THERMOMARK CARD SET DE CH	5147220	1	THERMOMARK ROLL SET DE CH	5147230	1
THERMOMARK CARD SET EN BE	5147214	1	THERMOMARK ROLL SET EN BE	5147225	1
THERMOMARK CARD SET FR FR	0801591	1	THERMOMARK ROLL SET FR FR	0801592	1
THERMOMARK CARD SET ES ES	5147218	1	THERMOMARK ROLL SET ES ES	5147228	1
THERMOMARK CARD SET IT IT	5147217	1	THERMOMARK ROLL SET IT IT	5147227	1
THERMOMARK CARD SET PL US	5147215	1	THERMOMARK ROLL SET PL US	5147226	1
THERMOMARK CARD SET HU HU	5147221	1	THERMOMARK ROLL SET HU HU	5147231	1
THERMOMARK CARD SET PT PT	5147219	1	THERMOMARK ROLL SET PT PT	5147229	1
THERMOMARK CARD SET RU RU	5147211	1	THERMOMARK ROLL SET RU RU	5147222	1
THERMOMARK CARD SET DK DK	5147213	1	THERMOMARK ROLL SET DK DK	5147224	1
THERMOMARK CARD SET SE SE	5147212	1	THERMOMARK ROLL SET SE SE	5147223	1
<b>Accessories</b>			<b>Accessories</b>		

## Marking systems

### THERMOMARK X1.2, thermal transfer printer for material off the roll



Thermal transfer for rolls

An important addition to the range is the THERMOMARK X1.2, a top-of-the-line thermal transfer printer with the following key features:

- High print speed
- Print resolution of 300 dpi
- This printer is suitable for marking large quantities and is capable of processing all types of material supplied on rolls
- The easy-to-use centering function for the printing material makes it possible to label continuous media such as shrink sleeves
- High-quality resin-based ink ribbons ensure a form of marking that is resistant to mechanical and chemical effects
- Continuous media can be cut and perforated with a high degree of positional accuracy



ERIC

Dimensions		
		[mm]
General data		
Temperature range		[°C]
Print resolution		[dpi]
Max. print width		[mm]
Max. printing length		[mm]
Interfaces		
Power supply		[V]
Weight		[kg]
Operating systems		

Technical data		
Width	Length	Height
242	446	274
Temperature range		
10 ... 35		
Print resolution		
300 dpi		
Max. print width		
105		
Max. printing length		
2000		
Interfaces		
Serial (RS-232) / USB 2.0 / 10/100 Mbps Ethernet		
Power supply		
100 ... 240 / 50 Hz ... 60 Hz		
Weight		
10		
Operating systems		
MS Windows XP SP3, MS Windows Vista, MS Windows 7 (32/64-bit), MS Windows 8 (32/64-bit)		

Description	Color
Thermal transfer printer, incl. connecting cable, Windows® printer driver and operating instructions, software	gray

Ordering data		
Type	Order No.	Pcs. / Pkt.
THERMOMARK X1.2	5146231	1

**Starter set, complete for THERMOMARK X1.2** consists of: planning and marking software, THERMOMARK X1.2 thermal transfer printer, ink ribbon, roll of labels

**Cutter**, for THERMOMARK X1...

**Perforator**

**Transport case**, with aluminum edges, for printer and accessories

**External media hub**, for roll diameters of 150 mm to 400 mm

**External media hub**, for roll diameters of up to 500 mm

**Ink ribbon**, length: 300 m, width: 110 mm

**Ink ribbon**, specifically for high-temperature labels, EML-HT...

**Ink ribbon**, specifically for WMS... shrink sleeves, length: 300 m, width: 110 mm

**Ink ribbon**, specifically for WMS... shrink sleeves, length: 300 m, width: 64 mm

**Ink ribbon**, length: 300 m, width: 110 mm, color: black

**Ink ribbon**, specifically for cable markers for assembly with cable binders, WMTB HF..., length: 300 m, width: 110 mm

Accessories		
Type	Order No.	Pcs. / Pkt.
THERMOMARK X1.2-KIT	5146341	1
THERMOMARK X1-CUTTER	5145290	1
THERMOMARK X1-CUTTER/P	5146244	1
THERMOMARK X1-CASE	5145300	1
THERMOMARK ROLL-ERH	5146448	1
THERMOMARK-ERH 500	5146309	1
THERMOMARK-RIBBON 110	5145384	1
THERMOMARK-RIBBON 110-EML-HT	0800342	1
THERMOMARK-RIBBON 110-WMSU	0801358	1
THERMOMARK-RIBBON 110-WMSU WH	0801359	1
THERMOMARK-RIBBON 64-WMSU	0801360	1
THERMOMARK-RIBBON 64-WMSU WH	0801361	1
TM-RIBBON 110-EX	0803211	1
THERMOMARK-RIBBON 110-WMTB HF	5148007	1



**THERMOMARK W2, thermal transfer printer for continuous shrink sleeve**



Thermal transfer for rolls



- The THERMOMARK W2 has been specially developed for the double-sided printing and perforation of continuous WMS shrink sleeves
- Double-sided printing ensures optimum marking legibility
  - The guide elements ensure easy handling when inserting the sleeve
  - The user-friendly interface of the CLIP PROJECT software enables you to enter custom specifications for the marking and marker length
  - Black and white ink ribbons are available to facilitate color marking
  - The printed markers can be easily and quickly separated along the perforations

Dimensions	
	[mm]
General data	
Temperature range	[°C]
Print resolution	[dpi]
Max. print width	[mm]
Max. printing length	[mm]
Interfaces	
Power supply	[V]
Weight	[kg]
Operating systems	

ERIC

Technical data		
Width	Length	Height
248	554	405
10 ... 35 300 dpi 105.6 1000 Serial (RS-232) / USB 2.0 / 10/100 Mbps Ethernet 100 ... 240 / 50 Hz ... 60 Hz 21 MS Windows XP SP3, MS Windows Vista, MS Windows 7 (32/64-bit), MS Windows 8 (32/64-bit)		

Description	Color
<b>Thermal transfer printer</b> , specially for shrink sleeve marking on both sides, including perforation knife, connecting cable, Windows® printer driver, operating instructions, CLIP PROJECT advanced planning and marking software	gray

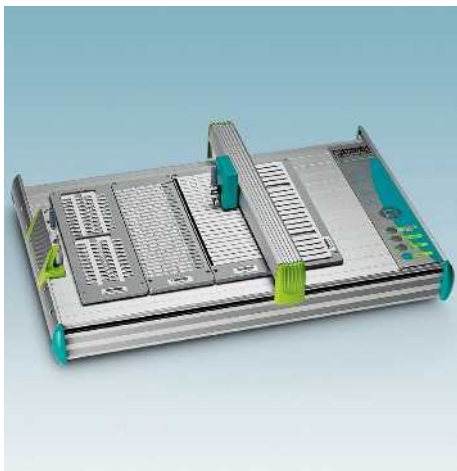
Ordering data		
Type	Order No.	Pcs. / Pkt.
THERMOMARK W2	5146147	1

<b>External media hub</b> , for roll diameters of 150 mm to 400 mm	
<b>External media hub</b> , for roll diameters of up to 500 mm	
<b>External media hub</b> , for roll diameters of up to 500 mm	
<b>Ink ribbon</b> , specifically for WMS... shrink sleeves, length: 300 m, width: 110 mm	black white
<b>Ink ribbon</b> , specifically for WMS... shrink sleeves, length: 300 m, width: 64 mm	black white

Accessories		
Type	Order No.	Pcs. / Pkt.
THERMOMARK ROLL-ERH	5146448	1
THERMOMARK-ERH 500	5146309	1
THERMOMARK-ERH 500	5146309	1
THERMOMARK-RIBBON 110-WMSU	0801358	1
THERMOMARK-RIBBON 110-WMSU WH	0801359	1
THERMOMARK-RIBBON 64-WMSU	0801360	1
THERMOMARK-RIBBON 64-WMSU WH	0801361	1



### CMS-P1-PLOTTER



Plotter



- During long periods of non-use, the plotter pens are stored safely in a pen station
- The pens are removed and deposited automatically
- The pen station of the CMS-P1-PLOTTER prevents the plotter pens from drying out
- An automatic marking preparation function ensures optimum marking results right from the first character
- The plotter is controlled with the CLIP PROJECT software
- The plotter can be connected to the computer quickly and easily via the Centronics or USB interface
- Easily operated with just a few buttons

Dimensions	
	[mm]
General data	
Lettering field size	[mm]
Max. material height	[mm]
Max. plotting speed	[m/s]
Interfaces	
Input voltage / frequency	[V]
Weight	[kg]
Operating systems	

Technical data		
Width	Length	Height
440	660	125
440 x 296 mm		
10.5		
0.4		
Parallel (Centronics) / USB 2.0		
100 ... 240 / 50 Hz ... 60 Hz		
8		
MS Windows XP SP3, MS Windows Vista, MS Windows 7 (32/64-bit), MS Windows 8 (32/64-bit)		

Description	Color
<b>Marking plotter</b> , incl. power supply unit, connecting cable (Centronics and USB), CMS-PEN 0,25 pen, manual, planning and marking software, CLIP PROJECT	silver

Ordering data		
Type	Order No.	Pcs. / Pkt.
CMS-P1-PLOTTER	5144615	1

<b>Starter set</b> , consisting of: - CLIP PROJECT, - CMS-P1-PLOTTER, - Magazines for UC-TM, UC-TMF, and UC-EMP, plus marking material - Ink and cleaning set
<b>Transport case for CMS-P1-PLOTTER</b> , rounded profile case with aluminum frame for a complete plotter system
<b>Covering hood for CMS-P1-PLOTTER</b> , flexible hood for protecting against contamination
<b>Set of seals for the pen station</b> , 4 replacement seals for the pen station of the CMS-P1-PLOTTER and 10 marking preparation plates, incl. assembly tool
<b>Pen plates</b> , for the pen station of the CMS-P1-PLOTTER
<b>Magazines and pens</b>

Accessories		
Type	Order No.	Pcs. / Pkt.
CMS-P1-PLOTTER-KIT	5144628	1
CMS-P1-PLOTTER-CASE	5144631	1
CMS-P1-PLOTTER-COVER	5144806	1
CMS-P1-PENDEPOT	5144835	1
CMS-P1-PREPLATES	5145135	1
See page 44		



CMS-P1-PLOTTER engraving unit



Engraving



- The P1 ENGRAVING UNIT is the ideal marking solution for device and component marking applications that involve high levels of mechanical and chemical stress
- The CMS-P1-PLOTTER can be converted into an engraving unit quickly and easily by swapping the plotter head for the engraving device
- To allow different line thicknesses, engraving chisels with diameters ranging from 0.2 ... 1.0 mm are available as accessories
- These are supplemented by a comprehensive product range of pre-assembled engraving materials; see page 284
- These materials remain in position and do not slip when used with the CMS-P1-M/GPE ENGRAVING plotter magazine

Dimensions	
	[mm]
<b>General data</b>	
Power supply	[V]
Weight	[kg]
Speed range	[RPM]
Collet chuck	[mm]
Power consumption	[W]

Technical data		
Width	Length	Height
250	350	

110 ... 240 / 50 Hz ... 60 Hz
8
5000 ... 50000
3
150

Description
<b>Engraving unit</b> , for the CMS-P1-PLOTTER, incl. operating instructions (English/German), data CD and engraving chisel

Ordering data		
Type	Order No.	Pcs. / Pkt.
P1 ENGRAVING UNIT	5145546	1

<b>Engraving chisel</b> , with a point angle of 15°
Point diameter 0.2 mm
Point diameter 0.3 mm
Point diameter 0.4 mm
Point diameter 0.5 mm
Point diameter 0.7 mm
Point diameter 1.0 mm
<b>Engraving chisel set</b> , chisel with a point angle of 15°, point diameter: 0.2 mm, 0.3 mm, 0.4 mm, 0.5 mm, 0.7 mm, 1.0 mm
<b>Vacuum cleaner bag</b> , 5 spare bags for replacement
<b>Magazine for the CMS-P1-PLOTTER</b> , for accommodating EMLP... and GPE... materials for engraving
- 1 GPE label sheet

Accessories		
Type	Order No.	Pcs. / Pkt.
P1 GRAVER 0.2	5145478	1
P1 GRAVER 0.3	5145481	1
P1 GRAVER 0.4	5145494	1
P1 GRAVER 0.5	5145504	1
P1 GRAVER 0.7	5145517	1
P1 GRAVER 1.0	5145520	1
P1 GRAVER SET	5145533	1
P1 ENGRAVING VC BAG	5145559	1
CMS-P1-M/GPE ENGRAVING	5145711	1



### Magazines for CMS-P1-PLOTTER



- Robust plastic magazines for marking all commercially available marking materials
- Even compatible with marking sheets that have already been started
- Option of partial marking
- In terms of its size, the magazine utilizes plotter capacity to the full
- We offer a variety of different magazines for marking materials
- If you cannot find the right magazine for your materials, please get in touch

Description	Color
<b>Magazine, for CMS-P1-PLOTTER, for accommodating:</b> UC-TM ..., UC-TMN ..., UC3-TM ..., UC-WMC 1,9..., UC-WMC 3,1..., UC-WMTBA ..., UC-EM (17,5x9), UC-EM (18x8), UC-EM (21x8)	
For accommodating UC-WMC 4,4...	gray
For accommodating UC-WMC 5,6..., UC-WMC 7,5...	gray
For accommodating UC-TMF..., UC1-TMF..., UC2F-TM..., UC-WMT...	gray
For accommodating UC1-TM..., UC1U-TM..., UC2-TM...	gray
For accommodating: UC-EM..., UC-EMP..., UC-EMLP..., UC-EMSP..., and UC-WMTB...	gray
For accommodating: UC-WMCO ...	gray
<b>Plastic magazines, for CMS-P1-PLOTTER, for accommodating:</b> - 22 zack marker strips	
- 26 flat zack marker strips or ZBN strips	
- 2 zack marker sheets	
- 3 flat zack marker sheets	
- 22 contactor marker zack marker strips	
- 4 to 6 PABA marker bars	
- 30 marker pins ZB strips	
- 1 GPE label sheet	
- 20 strips LBHZ conductor marking	
- 1 GPE label sheet	
<b>Magazine for accommodating sheet material, self-adhesive mat for fixing labels, foils and paper, size of sheet max. DIN A4</b>	

Ordering data		
Type	Order No.	Pcs. / Pkt.
<b>P1 UC-MAG 1</b>	5146079	1
<b>P1 UC-MAG 2</b>	5146082	1
<b>P1 UC-MAG 3</b>	5146095	1
<b>P1 UC-MAG 4</b>	5146105	1
<b>P1 UC-MAG 5</b>	5146118	1
<b>P1 UC-MAG 6</b>	5146121	1
<b>P1 UC-MAG 7</b>	5146568	1
<b>CMS-P1-M/ZB</b>	5144699	1
<b>CMS-P1-M/ZBF</b>	5144709	1
<b>CMS-P1-M/ZBM</b>	5144660	1
<b>CMS-P1-M/ZBFM</b>	5144686	1
<b>CMS-P1-M/SS-ZB</b>	5144712	1
<b>CMS-P1-M/PAB</b>	5144741	1
<b>CMS-P1-M/BN-ZB</b>	5144725	1
<b>CMS-P1-M/GPE</b>	5144754	1
<b>CMS-P1-M/LBHZ</b>	5144738	1
<b>CMS-P1-M/GPE ENGRAVING</b>	5145711	1
<b>CMS-P1-PAD</b>	5144819	1

<b>Adapter plate for WMU magazines, for using the universal CMS-WMU replaceable frame with the magazine inserts of the CMS-MCP 3 plotter</b>
<b>Replacement fixation pad for CMS-P1-M/ZBFM, 9 self-adhesive fixation pads, sufficient for 3 magazines</b>
<b>Replacement fixation pad for CMS-P1-M/GPE and CMS-P1-M/GPE ENGRAVING, one fixation pad, sufficient for one magazine</b>
<b>Replacement fixation pad for CMS-P1-PAD, 1 fixation pad in DIN A4 format</b>

Accessories		
Type	Order No.	Pcs. / Pkt.
<b>CMS-P1-WMU-ADAPTER</b>	5144822	1
<b>CMS-P1-M/ZBFM-PAD</b>	5144848	1
<b>CMS-P1-M/GPE-PAD</b>	5144880	1
<b>CMS-P1-PAD/SPARE</b>	5144893	1

Plotter pens



Plotter



- Plotter pens for high-quality product marking
- Wipe-resistant with a perfect appearance
- Totally integrated product range consisting of plotter pens, ink, and cleaning fluid for the CMS-P1-PLOTTER plotter
- Both reusable and disposable plotter pens are available

Description	Color
<b>Disposable plotter pen</b> , non-refillable plotter pen, with pen station, completely filled with 1 ml CMS-INK-TR-C 5 ink, for high requirements	
Line thickness 0.25 mm	black
Line thickness 0.35 mm	black
<b>Pens</b> , incl. adapters, ink tank and pen station, for different line thicknesses, without ink	
Line thickness 0.25 mm	
Line thickness 0.35 mm	
Line thickness 0.50 mm	

Ordering data		
Type	Order No.	Pcs. / Pkt.
CMS-DISPOSABLE-PEN 0,25 TR	5146685	1
CMS-DISPOSABLE-PEN 0,35 TR	5146686	1
CMS-PEN 0,25	5067815	1
CMS-PEN 0,35	5067828	1
CMS-PEN 0,50	5067831	1

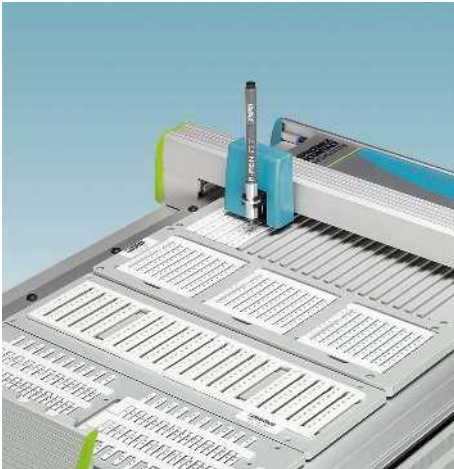
<b>Cleaning set for pens</b> , consisting of: 1 cleaning cup, 2 cartridges of 10 ml cleaning liquid each and 2 spare sealing caps for the pen station		
<b>Cleaning cartridges with spare sealing caps</b> , 2 cartridges, each with 10 ml cleaning liquid and 2 caps		
<b>Ink cartridge</b> , for CMS-PEN...		

Accessories		
Type	Order No.	Pcs. / Pkt.
CMS-R-SET-TR	5146751	1
CMS-R-FLUID-TR-C2	5146752	1
CMS-INK-TR-C5	5146684	1



## Marking systems

### Marker pen for plotter and manual marking



- High-quality marking of unprinted marking materials, can be performed manually or with the CMS-P1-PLOTTER
- Used in conjunction with the P-PEN ADAPTER when combined with plotter
- Disposable pen
- No handling of cleaning fluid required



Description	Color
<b>Disposable pen, non-refillable</b> , for manual marking, can be also used for plotter marking when combined with the P-PEN ADAPTER	black

<b>Aluminum adapter</b> , to fix the P-PEN for plotter marking
--

#### Ordering data

Type	Order No.	Pcs. / Pkt.
P-PEN	0815211	10

#### Accessories

P-PEN ADAPTER	0815224	1
---------------	---------	---

### Marker pen for manual marking



- High-quality marking of unprinted marking materials is also possible without the use of marking devices
- We provide three versions for manual marking
- Refillable pen: X-PEN
- Disposable pen: B-STIFT
- Disposable pen: P-PEN, can also be used for plotter marking when combined with an adapter



Description	Color
<b>Marker pen, refillable</b> , for manual marking, 0.35 mm line thickness, can be refilled with CMS-INK-TR-C 5, delivered without ink	black

<b>Ink cartridge</b> , for CMS-PEN...	black
---------------------------------------	-------

#### Ordering data

Type	Order No.	Pcs. / Pkt.
X-PEN 0,35	0811228	1

#### Accessories

CMS-INK-TR-C5	5146684	1
---------------	---------	---

**Marker pen for manual marking**

- High-quality marking of unprinted marking materials is also possible without the use of marking devices
- We provide three versions for manual marking
- Refillable pen: X-PEN
- Disposable pen: B-STIFT
- Disposable pen: P-PEN, can also be used for plotter marking when combined with an adapter



		Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.
Marker pen, not refillable, for manual marking, line thickness 0.5 mm	black	B-STIFT	1051993	10

# Marking and labeling - MARKING system

## Marking systems

Overview  
Marking system -  
marking material -  
matrix



Marking system	TOPMARK LASER	BLUEMARK CLED	THERMOMARK CARD	THERMOMARK ROLL
----------------	---------------	---------------	-----------------	-----------------

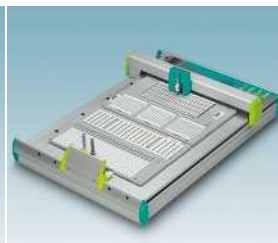
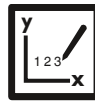
### Terminal marking

UC...-TM...		Page 56		
UCT...-TM...	Page 76	Page 76	Page 76	
UM...-TM...		Page 118	Page 118	
US-TM...			Page 80	
US-TMF...			Page 81	
US-TML...			Page 82	
ZB...				
ZBF...				
TMT...				Page 84
TML...				Page 88
SK...				Page 95

### Conductor/cable marking

LS-WMTB...	Page 156			
WMTB-AL...		Page 160		
AI-WM...		Page 169		
UC-WMT...		Page 170		
UC-WMTB(A)...		Page 172		
UC-WMC(O)...		Page 162		
UCT-WMT...	Page 174	Page 174	Page 174	
UCT-WMTB(A)...	Page 178	Page 178	Page 178	
UCT-WMCO...	Page 177	Page 177	Page 177	
UCT-WMS...	Page 176	Page 176	Page 176	
US-WMT...			Page 180	
US-WMTB...			Page 182	
US-WML...			Page 183	
WMT...				Page 196
WMTB...(HF)				Page 197
WMS... (pre-assembled)				Page 189
WMS... (continuous shrink sleeve)				Page 192
WML.../WML HF... /WML-FLAG...				Page 185
EMT...				Page 194
WMTW...				Page 195





THERMOMARK ROLL X1

THERMOMARK X1.2

THERMOMARK W2

CMS-P1-PLOTTER

P1 ENGRAVING UNIT

			Page 56	
			Page 62	
			Page 70	
Page 84	Page 84			
Page 88	Page 88			
Page 95	Page 95			
			Page 170	
			Page 172	
			Page 162	
Page 196	Page 196			
Page 197	Page 197			
Page 189	Page 189			
Page 192	Page 192	Page 192		
Page 185	Page 185			
Page 194	Page 194			
Page 195	Page 195			

# Marking and labeling - MARKING system

## Marking systems

### Overview

Marking system - marking material matrix



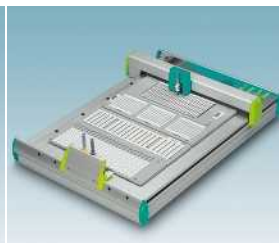
Marking system	TOPMARK LASER	BLUEMARK CLED	THERMOMARK CARD	THERMOMARK ROLL
----------------	---------------	---------------	-----------------	-----------------

### Device marking

LS-EM...	Page 226			
EM...AL...		Page 238		
UC-EM...		Page 245		
UC-EMP...		Page 243		
UC-EMLP...(EX)		Page 240		
UC-EMSP...		Page 242		
UCT-EM(P)...	Page 248	Page 248	Page 248	
US-EMP...			Page 257	
US-EMLP...(HA)			Page 254	
US-EMLSP...			Page 260	
US-EMSP...			Page 259	
US-EML...			Page 261	
US-EMLF...			Page 354	
EMT...				Page 280
EML...(EX)				Page 264
EMLP...				Page 269
EMLF...				Page 272
EMLC...				Page 273
EMLS...				Page 278
EML-HA...				Page 274
EML-HT...				Page 275
EML-ESD...				Page 276
EML-RM...				Page 277
GPE...				
BMK...				
BMKL...				

### System marking

US-PML-W...			Page 320	
US-PML-P...			Page 326	
US-PML-M...			Page 334	
US-PML-GHS...			Page 348	
US-EMLF...			Page 354	
PML-W....				Page 321
PML-P...				Page 327
PML-M...				Page 335
PML-GHS...				Page 349
PML-T...				Page 342
PMM...				Page 355



THERMOMARK ROLL X1

THERMOMARK X1.2

THERMOMARK W2

CMS-P1-PLOTTER

P1 ENGRAVING UNIT

Page 245

Page 243

Page 240

Page 242

Page 280

Page 280

Page 264

Page 264

Page 269

Page 269

Page 269

Page 272

Page 272

Page 273

Page 273

Page 278

Page 278

Page 274

Page 274

Page 275

Page 275

Page 276

Page 276

Page 277

Page 277

Page 284

Page 284

Page 283

Page 282

Page 321

Page 321

Page 327

Page 327

Page 335

Page 335

Page 349

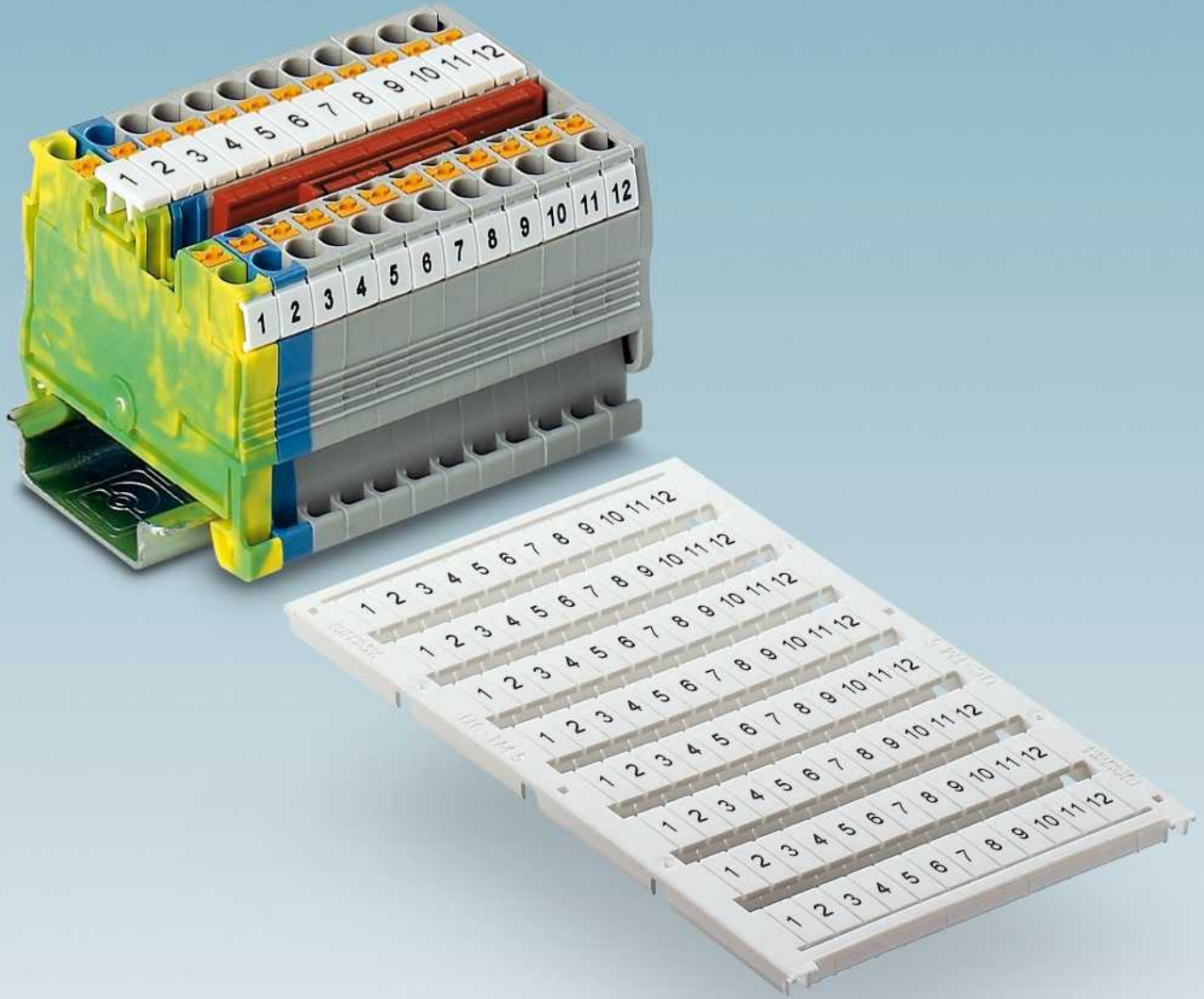
Page 349

Page 342

Page 342

Page 355

Page 355



# Terminal marking - MARKING system

Large-surface and clear marking of terminal strips is essential for quick and error-free wiring of terminal strips. This is also true for the maintenance and startup of control cabinets and systems.

Terminal markers from Phoenix Contact are optimally adapted to the terminals and are available marked or unmarked in card, roll or sheet format.

## Product range overview

---

### Terminal marking 54

---

#### UniCard UC-TM... terminal marking

For tall marker grooves	56
For flat marker grooves	58

---

#### ZB... zack marker strip terminal marking

For tall marker grooves	62
For flat marker grooves	70

---

#### UniCard UCT-TM... terminal marking

For tall marker grooves	76
For flat marker grooves	78

---

#### UniSheet US-TM... terminal marking

For universal marker grooves	80
For flat marker grooves	81

---

#### TMT... terminal marking supplied in rolls

Marker strips for tall and flat marker grooves	84
--	----

---

#### TML... terminal marking supplied in rolls

Self-adhesive markers for terminal blocks without marker grooves	88
--	----

---

#### SK... terminal marking supplied as card material

Self-adhesive markers for terminal blocks without marker grooves	92
--	----

---

#### Group marker labels and warning labels 96

---

### Overview of terminal marking for Phoenix Contact 100

---

The right marking solution for every terminal

---

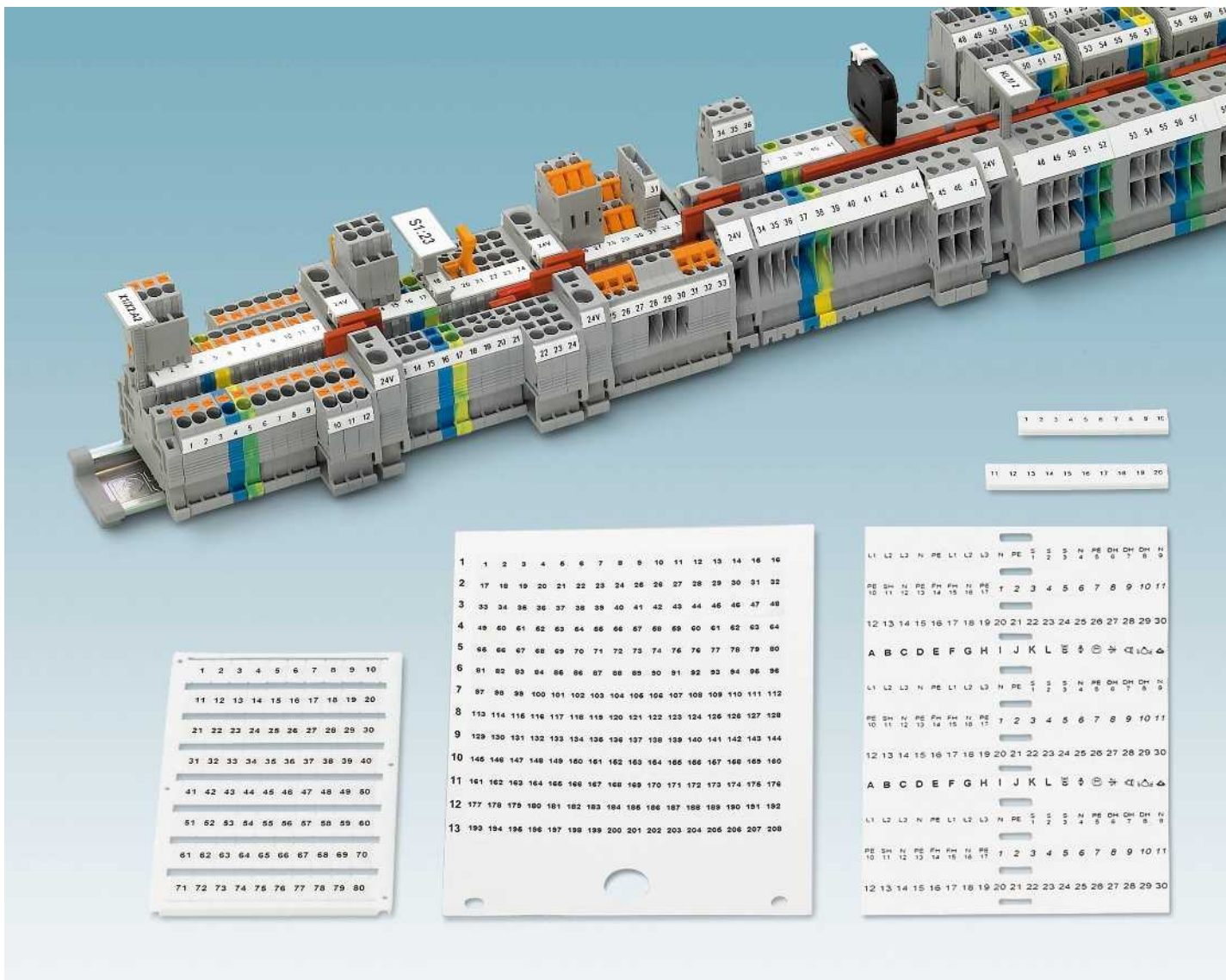
### Terminal marking for terminal blocks from other manufacturers 106

---

### Overview of terminal marking for other manufacturers 126

---

Phoenix Contact provides the right marking solution for every terminal



Those involved in control cabinet and system engineering must ensure meaningful marking of electrical connecting elements and control cabinet components. As with comprehensive documentation, precise marking of all terminal points makes it easier to set up and maintain the systems concerned. EN 60204-1/VDE 0113 Part 1 stipulates requirements concerning consistent system marking and, therefore, for ensuring that it matches the technical documentation.

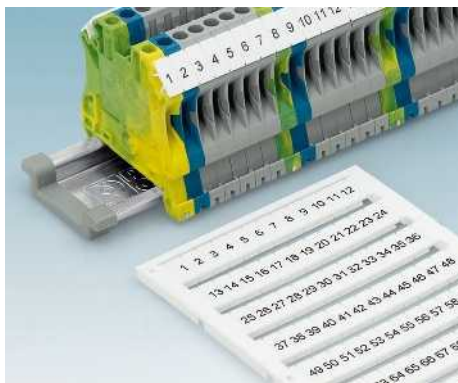
Various marking materials are available for marking Phoenix Contact terminal blocks. The marking strips can be easily separated by hand, and their special geometry ensures that the marking remains in place even in the event of impact and vibration in machines and vehicles.

The terminal markers are available in strips or sheets and with or without marking in accordance with customer requirements. Depending on the version, unmarked terminal markers can be marked using the various printing systems available from Phoenix Contact.

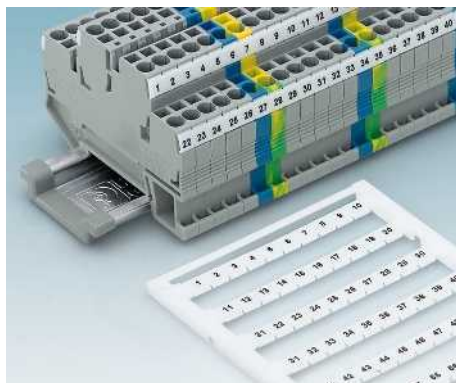
- Markers in UniCard format can be quickly and reliably marked using the new BLUEMARK CLED printer
- Markers in UniSheet format can be quickly and reliably marked using the new THERMOMARK CARD printer
- Material off the roll has been specially developed for marking using thermal transfer printers, e.g., from the new THERMOMARK LINE series from Phoenix Contact
- Zack marker strips are ideal for marking with the plotter, but can also be marked directly by hand.

All marking systems are characterized by their high resolution and excellent wipe resistance.

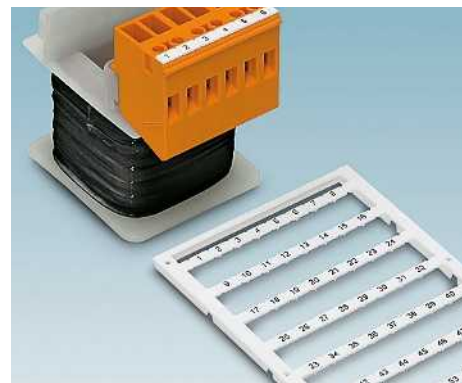
Various marking labels are available for marking terminal block groups in addition to the marking of the actual terminal points. These are snapped into the marking grooves of terminal blocks. Details of group marking products that can be fixed to end brackets can be found in the chapter titled Mounting material starting on page 483.



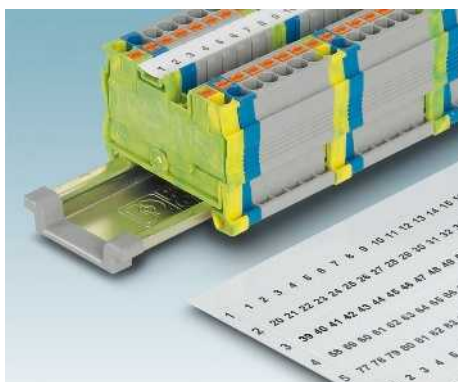
Markers are available in the UniCard and UniSheet formats for the marking of terminal blocks with a tall marker groove. They can be supplied unprinted or printed according to customer requirements.



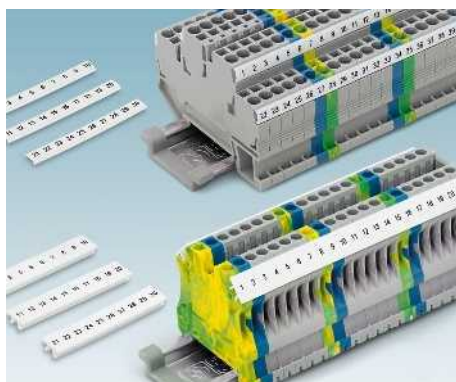
Markers are available in the UniCard and UniSheet formats for terminal blocks, modules, and connectors with a flat marker groove. They can be supplied unprinted or printed in accordance with customer requirements.



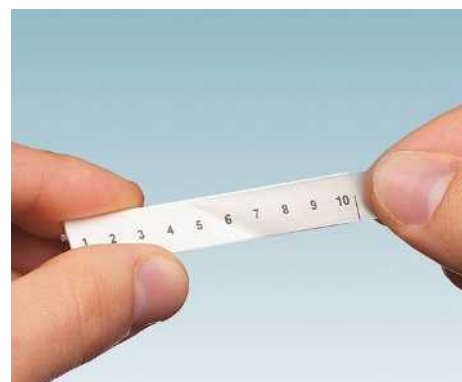
Miniature terminal blocks/transformer terminal blocks have neither a flat nor a tall marker groove. Special markers are available in UniCard format for the purpose of marking such terminal blocks.



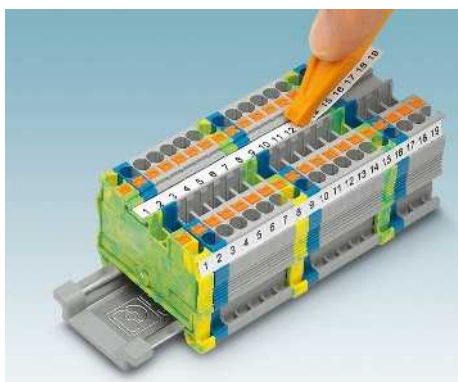
The universal marker groove can be marked with markers in UniSheet format. These are available unprinted or printed in accordance with customer requirements.



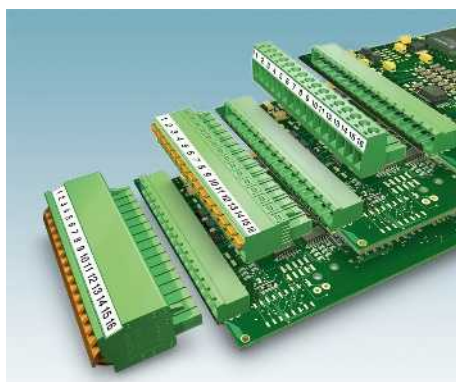
10-section zack marker strips are available in tall and flat versions. They are used to mark terminal blocks, modules or connectors and can be supplied unprinted or printed.



Unmarked zack marker strips can accommodate printed marker strips. Once printed, the self-adhesive strip is simply stuck onto the zack marker strip.



The marker strips can be used in both tall and flat marker marker grooves. They can be easily separated by hand since they are pre-perforated for the pitch.



Self-adhesive marker strips can be applied to all PCB terminal blocks and COMBICON connectors. They can be supplied printed on cards or unprinted on a roll.

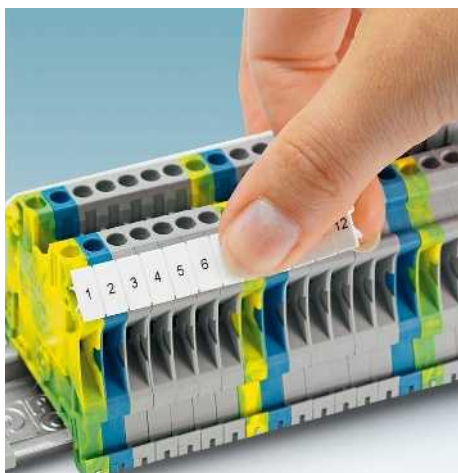


Markers are available in both UniCard and UniSheet formats for marking modular terminal blocks from other manufacturers.

## Terminal marking

### UniCard terminal marking for tall marker groove

Can be marked using:



UV LED technology



Plotter

PRINTED  
FOR YOU



Markers for terminal block widths up to 8.2 mm

- The UC-TM ... UniCard marking range includes markers for products with a tall marker groove
- The markers, which are supplied in uniform sheets, can be marked quickly and easily using the BLUEMARK
- The format automatically ensures printing with a high level of positional accuracy
- The multi-section marking strips are easy to fit and can be easily separated if required
- The markers support multiline marking
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

#### Notes:

An overview of the terminal blocks that can be marked that are available from Phoenix Contact can be found starting on page 100.

#### General data

Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

#### Technical data

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Description	Color
-------------	-------

**UniCard**, for marking terminal blocks with a marker groove, 120-section, 15 individual labels per strip, for a terminal block width of 4.2 mm,

- white
- red
- orange
- yellow
- violet
- blue
- green

#### Ordering data

Type	Order No.	Pcs. / Pkt.
UC-TM 4	0818111	10
UC-TM 4 RD	0818250	10
UC-TM 4 OG	0818221	10
UC-TM 4 YE	0818234	10
UC-TM 4 VT	0819084	10
UC-TM 4 BU	0818247	10
UC-TM 4 GN	0818263	10
UC-TM 5	0818108	10
UC-TM 5 RD	0818302	10
UC-TM 5 OG	0818276	10
UC-TM 5 YE	0818289	10
UC-TM 5 VT	0819107	10
UC-TM 5 BU	0818292	10
UC-TM 5 GN	0818315	10
UC-TM 6	0818085	10
UC-TM 6 RD	0818357	10
UC-TM 6 OG	0818328	10
UC-TM 6 YE	0818331	10
UC-TM 6 VT	0819110	10
UC-TM 6 BU	0818344	10
UC-TM 6 GN	0818360	10
UC-TM 8	0818072	10
UC-TM 8 RD	0818409	10
UC-TM 8 OG	0818373	10
UC-TM 8 YE	0818386	10
UC-TM 8 VT	0819123	10
UC-TM 8 BU	0818399	10
UC-TM 8 GN	0818412	10

**UniCard**, for marking terminal blocks with a marker groove, 96-section, 12 individual labels per strip, for a terminal block width of 5.2 mm

- white
- red
- orange
- yellow
- violet
- blue
- green

**UniCard**, for marking terminal blocks with a marker groove, 80-section, 10 individual labels per strip, for a terminal block width of 6.2 mm

- white
- red
- orange
- yellow
- violet
- blue
- green

**UniCard**, for marking terminal blocks with a marker groove, 56-section, 7 individual labels per strip, for a terminal block width of 8.2 mm

- white
- red
- orange
- yellow
- violet
- blue
- green

#### Magazine, for CMS-P1-PLOTTER

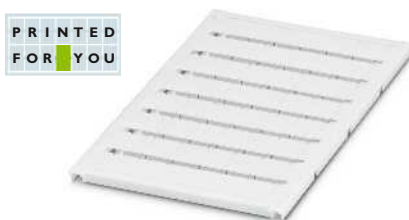
#### Accessories

P1 UC-MAG 1	5146079	1
-------------	---------	---





UniCard terminal marking for tall marker groove



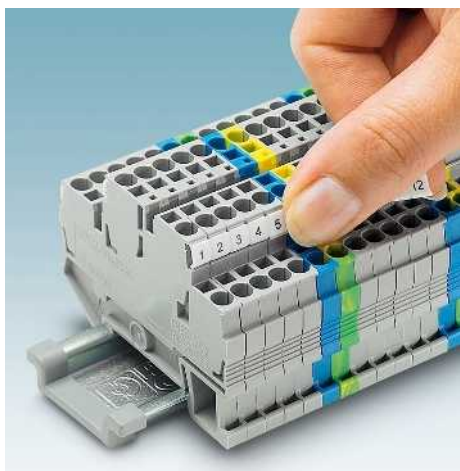
Markers for terminal block widths up to 16 mm

General data		Technical data		
Can be marked using		BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER		
Material		PA		
Inflammability class according to UL 94		V2		
Temperature range	[°C]	-40 ... 120		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)		
Components		Free from silicone and halogen		
Description		Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard, for marking terminal blocks with a marker groove, 48-section, 6 individual labels per strip, for a terminal block width of 10.2 mm	white	UC-TM 10	0818069	10
	red	UC-TM 10 RD	0818454	10
	orange	UC-TM 10 OG	0818425	10
	yellow	UC-TM 10 YE	0818438	10
	violet	UC-TM 10 VT	0815936	10
	blue	UC-TM 10 BU	0818441	10
	green	UC-TM 10 GN	0818467	10
UniCard, for marking terminal blocks with a marker groove, 40-section, 5 individual labels per strip, for a terminal block width of 12 mm	white	UC-TM 12	0819194	10
	red	UC-TM 12 RD	0817701	10
	orange	UC-TM 12 OG	0817691	10
	yellow	UC-TM 12 YE	0819204	10
	violet	UC-TM 12 VT	0822660	10
	blue	UC-TM 12 BU	0817785	10
	green	UC-TM 12 GN	0817808	10
UniCard, for marking terminal blocks with a marker groove, 32-section, 4 individual labels per strip, for a terminal block width of 16 mm	white	UC-TM 16	0819217	10
	red	UC-TM 16 RD	0817798	10
	orange	UC-TM 16 OG	0817772	10
	yellow	UC-TM 16 YE	0819220	10
	violet	UC-TM 16 VT	0822673	10
	blue	UC-TM 16 BU	0817769	10
	green	UC-TM 16 GN	0817756	10
Magazine, for CMS-P1-PLOTTER		Accessories		
		P1 UC-MAG 1	5146079	1

## Terminal marking

### UniCard terminal marking for flat marker groove

Can be marked using:



UV LED technology



Plotter



Markers for terminal block widths up to 8.2 mm

- The UC-TMF ... UniCard marking range includes markers for products with tall and flat marker grooves
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

#### Notes:

An overview of the terminal blocks that can be marked that are available from Phoenix Contact can be found starting on page 100.

#### General data

Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

#### Technical data

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Description	Color
-------------	-------

**UniCard**, for marking terminal blocks with a flat marker groove, 120-section, 15 individual labels per strip, for a terminal block width of 4.2 mm

#### Ordering data

white	UC-TMF 4	0818166	10
red	UC-TMF 4 RD	0818506	10
orange	UC-TMF 4 OG	0818470	10
yellow	UC-TMF 4 YE	0818483	10
violet	UC-TMF 4 VT	0815897	10
blue	UC-TMF 4 BU	0818496	10
green	UC-TMF 4 GN	0818519	10

Type	Order No.	Pcs. / Pkt.
UC-TMF 4	0818166	10
UC-TMF 4 RD	0818506	10
UC-TMF 4 OG	0818470	10
UC-TMF 4 YE	0818483	10
UC-TMF 4 VT	0815897	10
UC-TMF 4 BU	0818496	10
UC-TMF 4 GN	0818519	10
UC-TMF 5	0818153	10
UC-TMF 5 RD	0818551	10
UC-TMF 5 OG	0818522	10
UC-TMF 5 YE	0818535	10
UC-TMF 5 VT	0815907	10
UC-TMF 5 BU	0818548	10
UC-TMF 5 GN	0818564	10

**UniCard**, for marking terminal blocks with a flat marker groove, 96-section, 12 individual labels per strip, for a terminal block width of 5.2 mm

white	UC-TMF 5	0818153	10
red	UC-TMF 5 RD	0818551	10
orange	UC-TMF 5 OG	0818522	10
yellow	UC-TMF 5 YE	0818535	10
violet	UC-TMF 5 VT	0815907	10
blue	UC-TMF 5 BU	0818548	10
green	UC-TMF 5 GN	0818564	10

**UniCard**, for marking terminal blocks with a flat marker groove, 80-section, 10 individual labels per strip, for a terminal block width of 6.2 mm

white	UC-TMF 6	0818140	10
red	UC-TMF 6 RD	0818603	10
orange	UC-TMF 6 OG	0818577	10
yellow	UC-TMF 6 YE	0818580	10
violet	UC-TMF 6 VT	0815910	10
blue	UC-TMF 6 BU	0818593	10
green	UC-TMF 6 GN	0818616	10

Type	Order No.	Pcs. / Pkt.
UC-TMF 6	0818140	10
UC-TMF 6 RD	0818603	10
UC-TMF 6 OG	0818577	10
UC-TMF 6 YE	0818580	10
UC-TMF 6 VT	0815910	10
UC-TMF 6 BU	0818593	10
UC-TMF 6 GN	0818616	10
UC-TMF 8	0818137	10
UC-TMF 8 RD	0818658	10
UC-TMF 8 OG	0818629	10
UC-TMF 8 YE	0818632	10
UC-TMF 8 VT	0815923	10
UC-TMF 8 BU	0818645	10
UC-TMF 8 GN	0818661	10

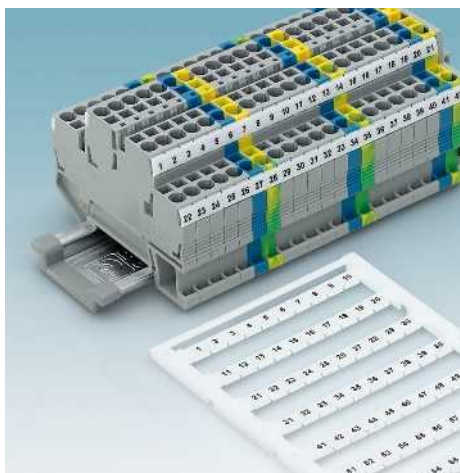
**UniCard**, for marking terminal blocks with a flat marker groove, 64-section, 7 individual labels per strip, for a terminal block width of 8.2 mm

white	UC-TMF 8	0818137	10
red	UC-TMF 8 RD	0818658	10
orange	UC-TMF 8 OG	0818629	10
yellow	UC-TMF 8 YE	0818632	10
violet	UC-TMF 8 VT	0815923	10
blue	UC-TMF 8 BU	0818645	10
green	UC-TMF 8 GN	0818661	10

Magazine, for CMS-P1-PLOTTER

#### Accessories

P1 UC-MAG 4	5146105	1
-------------	---------	---



UniCard terminal marking for flat marker groove



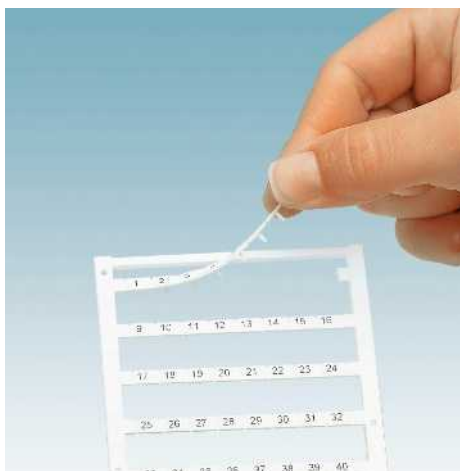
Markers for terminal block widths up to 16 mm

General data		Technical data		
Can be marked using		BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER		
Material		PA		
Inflammability class according to UL 94		V2		
Temperature range	[°C]	-40 ... 120		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)		
Components		Free from silicone and halogen		
		Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard, for marking terminal blocks with a flat marker groove, 48-section, 6 individual labels per strip, for a terminal block width of 10.2 mm	white	UC-TMF 10	0818124	10
	red	UC-TMF 10 RD	0818700	10
	orange	UC-TMF 10 OG	0818674	10
	yellow	UC-TMF 10 YE	0818687	10
	violet	UC-TMF 10 VT	0815981	10
	blue	UC-TMF 10 BU	0818690	10
	green	UC-TMF 10 GN	0818713	10
UniCard, for marking terminal blocks with a flat marker groove, 40-section, 5 individual labels per strip, for a terminal block width of 12 mm	white	UC-TMF 12	0819233	10
	red	UC-TMF 12 RD	0817840	10
	orange	UC-TMF 12 OG	0817866	10
	yellow	UC-TMF 12 YE	0819246	10
	violet	UC-TMF 12 VT	0822686	10
	blue	UC-TMF 12 BU	0817853	10
	green	UC-TMF 12 GN	0817837	10
UniCard, for marking terminal blocks with a flat marker groove, 32-section, 4 individual labels per strip, for a terminal block width of 16 mm	white	UC-TMF 16	0819262	10
	red	UC-TMF 16 RD	0817824	10
	orange	UC-TMF 16 OG	0817811	10
	yellow	UC-TMF 16 YE	0819259	10
	violet	UC-TMF 16 VT	0822699	10
	blue	UC-TMF 16 BU	0817905	10
	green	UC-TMF 16 GN	0817921	10
		Accessories		
Magazine, for CMS-P1-PLOTTER		P1 UC-MAG 4	5146105	1

## Terminal marking

### UniCard terminal marking for marking stud holders

Can be marked using:



UV LED technology



Plotter

PRINTED  
FOR YOU



Stud-type markers for terminal block widths of 5.2 / 7.5 / 10 mm

- The UC-TMN ... UniCard marking range includes markers for products with a marking stud holder, such as mini terminal blocks, transformer terminal blocks or COMBICON PCB connection terminal blocks
- The markers, which are supplied in uniform sheets, can be marked quickly and easily using the BLUEMARK
- The format automatically ensures printing with a high level of positional accuracy
- The multi-section marking strips are easy to fit and can be easily separated if required
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

#### General data

Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

#### Technical data

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Description	Color
UniCard, for marking transformer terminal blocks	
96-section	white
64-section	white
48-section	white

#### Ordering data

Type	Order No.	Pcs. / Pkt.
UC-TMN 5,2	0822945	10
UC-TMN 7,5	0821823	10
UC-TMN 10	0828554	10

#### Magazine, for CMS-P1-PLOTTER

#### Accessories

P1 UC-MAG 1	5146079	1
-------------	---------	---

#### Notes:

An overview of the terminal blocks that can be marked that are available from Phoenix Contact can be found starting on page 100.

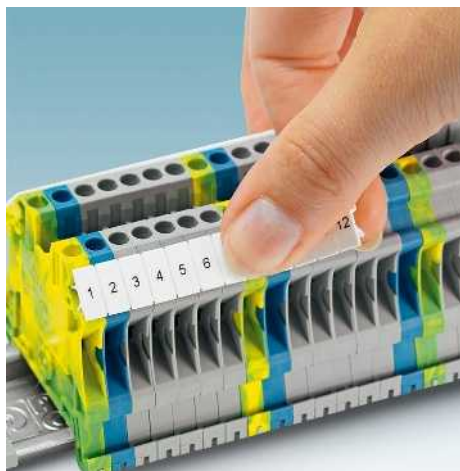




## Terminal marking

### Zack marker strip terminal marking for tall marker groove

Can be marked using:



Plotter



Markers for a terminal block width of 3.5 mm

- The ZB zack marker strip system is a marking solution for modular terminal blocks and electronic modules with tall marker grooves
- The multi-section marking strips are easy to fit and can be easily separated if required
- Different pitches are possible on request
- Unmarked marking strips can be custom-marked with a plotter or by hand
- Marking service: Phoenix Contact can custom-mark all zack marker strip markers in accordance with your requirements

### Selection of marking direction

- Please take care to select the correct marking direction for printed products
- ① "Printed horizontally" marking, text is the right way round for a horizontally arranged terminal strip
- ② "Printed vertically" marking, text is the right way round for a vertically arranged terminal strip

Notes:  
 1) 10 identically marked strips make up one packing unit (PU).

General data	
Can be marked using	CMS-P1-PLOTTER
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 100 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Free from silicone and halogen

Description	Color
<b>Zack marker strip, 10-section, unprinted:</b> pack contains enough to label 100 terminal blocks	
as above, however, large batch, sufficient for 1000 terminal blocks	white
<b>Zack marker strip, printed horizontally,</b> ten sections with consecutive numbers, e.g., 1 - 10, 11 - 20, etc. up to 91 - 100, (ZB 3,5 and ZB 4, max. 2 digits <sup>1)</sup> )	white
Markers for a terminal block width of 5.2 mm	white
<b>Zack marker strip, printed horizontally,</b> 10-section, with same numbers, e.g., 1/1/1, 2/2/2, etc. up to 100/100/100 <sup>1)</sup> )	white
<b>Zack marker strip, 10-section, printed horizontally:</b> with L1, L2, L3, N, PE <sup>1)</sup> )	white
U, V, W, N, ↓	white
<b>Zack marker strip, printed vertically,</b> 10-section, with consecutive numbers, e.g., 1-10, 11-20, etc. up to 91-100 <sup>1)</sup> )	white

Accessories	
Magazine, for CMS-P1-PLOTTER	

### Technical data

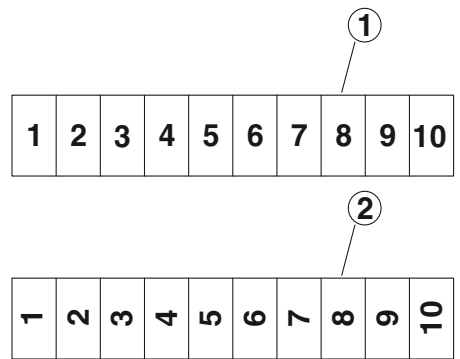
CMS-P1-PLOTTER
PA
V2
-40 ... 100 [°C]
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

### Ordering data

Type	Order No.	Pcs. / Pkt.
ZB 3,5:UNBEDRUCKT	0829414	10
ZB 3,5,LGS:FORTL.ZAHLEN	0801404	10
ZB 3,5,QR:FORT.ZAHLEN	0801405	10

### Accessories

CMS-P1-M/ZB	5144699	1
-------------	---------	---

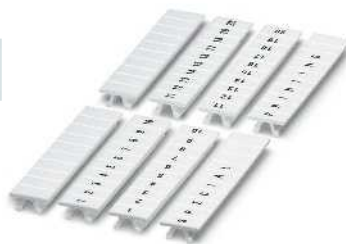


PRINTED  
FOR YOU



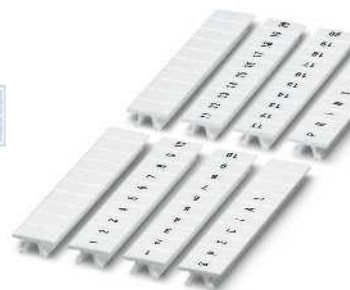
Markers for a terminal block width of 4.2 mm

PRINTED  
FOR YOU



Markers for a terminal block width of 5.2 mm

PRINTED  
FOR YOU



Markers for a terminal block width of 5.08 mm

### Technical data

CMS-P1-PLOTTER  
PA  
V2  
-40 ... 100  
DIN EN 61010-1 (VDE 0411-1)  
Free from silicone and halogen

### Ordering data

Type	Order No.	Pcs. / Pkt.
ZB 4 :UNBEDRUCKT	0805001	10
ZB 4/WH-100:UNBEDRUCKT	0805810	100
ZB 4,LGS:FORTL.ZAHLEN	0805739	10
ZB 4,QR:FORTL.ZAHLEN	0805807	10

### Accessories

CMS-P1-M/ZB	5144699	1
-------------	---------	---

### Technical data

CMS-P1-PLOTTER  
PA  
V2  
-40 ... 100  
DIN EN 61010-1 (VDE 0411-1)  
Free from silicone and halogen

### Ordering data

Type	Order No.	Pcs. / Pkt.
ZB 5 :UNBEDRUCKT	1050004	10
ZB 5/WH-100:UNBEDRUCKT	5060906	100
ZB 5,LGS:FORTL.ZAHLEN	1050017	10
ZB 5,LGS:GLEICHE ZAHLEN	1050033	10
ZB 5,LGS:L1-N,PE	1050415	10
ZB 5,QR:FORTL.ZAHLEN	1050020	10

### Accessories

CMS-P1-M/ZB	5144699	1
-------------	---------	---

### Technical data

CMS-P1-PLOTTER  
PA  
V2  
-40 ... 100  
DIN EN 61010-1 (VDE 0411-1)  
Free from silicone and halogen

### Ordering data

Type	Order No.	Pcs. / Pkt.
ZB 5,08:UNBEDRUCKT	0809793	10
ZB 5,08,LGS:FORTL.ZAHLEN	0809803	10
ZB 5,08,LGS:L1-N,PE	0809832	10
ZB 5,08,LGS:U-N	0809845	10
ZB 5,08,QR:FORTL.ZAHLEN	0809858	10

### Accessories

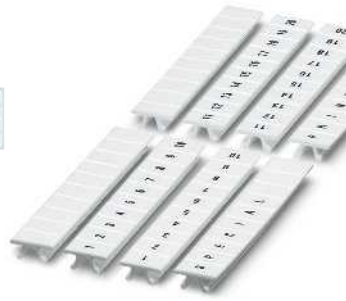
CMS-P1-M/ZB	5144699	1
-------------	---------	---

## Terminal marking

### Zack marker strip terminal marking for tall marker groove

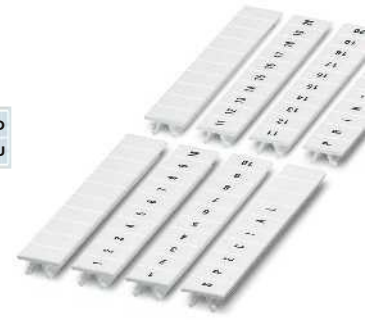
- The ZB zack marker strip system is a marking solution for modular terminal blocks and electronic modules with tall marker grooves
- Marking service: Phoenix Contact can custom-mark all zack marker strip markers in accordance with your requirements

PRINTED  
FOR YOU



Markers for a terminal block width of 6.2 mm

PRINTED  
FOR YOU

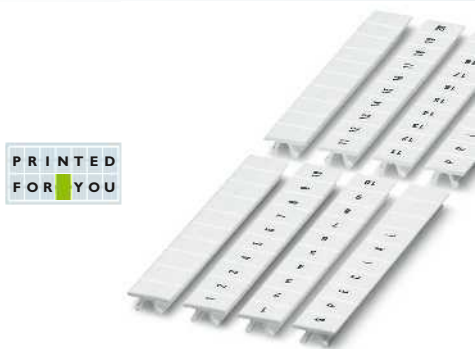


Markers for a terminal block width of 6.6 mm

**Notes:**  
1) 10 identically marked strips make up one packing unit (PU).

		Technical data			Technical data		
<b>General data</b>		CMS-P1-PLOTTER			CMS-P1-PLOTTER		
Can be marked using		PA			PA		
Material		V2			V2		
Inflammability class according to UL 94		-40 ... 100			-40 ... 100		
Temperature range [°C]		DIN EN 61010-1 (VDE 0411-1)			DIN EN 61010-1 (VDE 0411-1)		
Wipe resistance		Free from silicone and halogen			Free from silicone and halogen		
Components							
		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
<b>Zack marker strip, 10-section, unprinted:</b> pack contains enough to label 100 terminal blocks		<b>ZB 6:UNBEDRUCKT</b>	<b>1051003</b>	10	<b>ZB 6,6:UNBEDRUCKT</b>	<b>1052332</b>	10
as above, however, large batch, sufficient for 1000 terminal blocks	white white						
<b>Zack marker strip, printed horizontally, 10-section, with consecutive numbers, e.g., 1-10, 11-20, etc. up to 91-100</b>		<b>ZB 6,LGS:FORTL.ZAHLEN</b>	<b>1051016</b>	10	<b>ZB 6,6,LGS:FORTL.ZAHLEN</b>	<b>1052345</b>	10
Markers for a terminal block width of 6.2 mm	white						
<b>Zack marker strip, printed horizontally, 10-section, with same numbers, e.g., 1/1/1, 2/2/2, etc. up to 100/100/100</b>		<b>ZB 6,LGS:GLEICHE ZAHLEN</b>	<b>1051032</b>	10			
	white						
<b>Zack marker strip, 10-section, printed horizontally: with L1, L2, L3, N, PE</b>		<b>ZB 6,LGS:L1-N,PE</b>	<b>1051414</b>	10			
	white	<b>ZB 6,LGS:U-N</b>	<b>1051430</b>	10			
U, V, W, N, ↓	white						
<b>Zack marker strip, printed vertically, 10-section, with consecutive numbers, e.g., 1-10, 11-20, etc. up to 91-100<sup>1)</sup></b>		<b>ZB 6,QR:FORTL.ZAHLEN</b>	<b>1051029</b>	10			
	white						
		Accessories			Accessories		
<b>Magazine, for CMS-P1-PLOTTER</b>		<b>CMS-P1-M/ZB</b>	<b>5144699</b>	1	<b>CMS-P1-M/ZB</b>	<b>5144699</b>	1

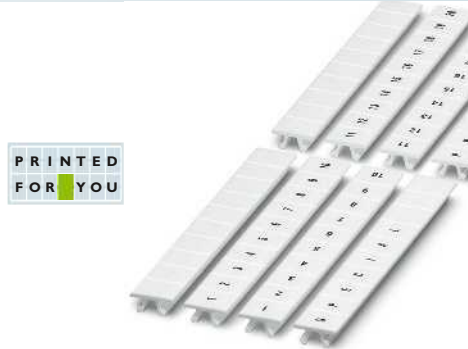




Markers for a terminal block width of 7.5 mm



Markers for a terminal block width of 7.62 mm



Markers for a terminal block width of 8.2 mm

Technical data
CMS-P1-PLOTTER PA V2 -40 ... 100 DIN EN 61010-1 (VDE 0411-1) Free from silicone and halogen

Technical data
CMS-P1-PLOTTER PA V2 -40 ... 100 DIN EN 61010-1 (VDE 0411-1) Free from silicone and halogen

Technical data
CMS-P1-PLOTTER PA V2 -40 ... 100 DIN EN 61010-1 (VDE 0411-1) Free from silicone and halogen

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZB 7,5:UNBEDRUCKT	0803948	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZB 7,62:UNBEDRUCKT	1054000	10
ZB 7,62/WH-100:UNBEDRUCKT	5060922	100
ZB 7,62,LGS:FORTL.ZAHLEN	1054233	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZB 8:UNBEDRUCKT	1052002	10
ZB 8/WH-100:UNBEDRUCKT	5060896	100
ZB 8,LGS:FORTL.ZAHLEN	1052015	10
ZB 8,LGS:L1-N,PE	1052413	10
ZB 8,QR:FORTL.ZAHLEN	1052028	10

Accessories		
CMS-P1-M/ZB	5144699	1

Accessories		
CMS-P1-M/ZB	5144699	1

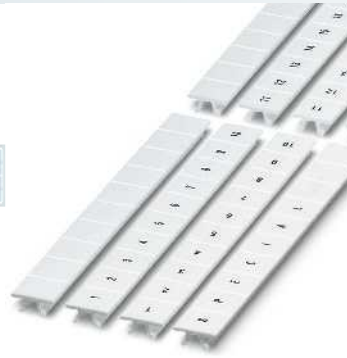
Accessories		
CMS-P1-M/ZB	5144699	1

# Marking and labeling - MARKING system

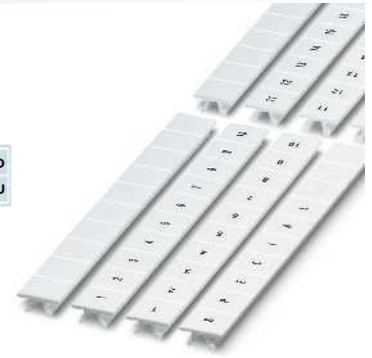
## Terminal marking

### Zack marker strip terminal marking for tall marker groove

- The ZB zack marker strip system is a marking solution for modular terminal blocks and electronic modules with tall marker grooves
- Marking service: Phoenix Contact can custom-mark all zack marker strip markers in accordance with your requirements



Markers for a terminal block width of 9 mm



Markers for a terminal block width of 10.2 mm

**Notes:**  
 1) 10 identically marked strips make up one packing unit (PU).

	Technical data			Technical data			
<b>General data</b>							
Can be marked using	CMS-P1-PLOTTER			CMS-P1-PLOTTER			
Material	PA			PA			
Inflammability class according to UL 94	V2			V2			
Temperature range	-40 ... 100 [°C]			-40 ... 100			
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)			DIN EN 61010-1 (VDE 0411-1)			
Components	Free from silicone and halogen			Free from silicone and halogen			
	Ordering data			Ordering data			
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
<b>Zack marker strip, 10-section, unprinted:</b> pack contains enough to label 100 terminal blocks		<b>ZB 9:UNBEDRUCKT</b>	<b>0829127</b>	10	<b>ZB 10:UNBEDRUCKT</b>	<b>1053001</b>	10
as above, however, large batch, sufficient for 1000 terminal blocks	white						
5-section	white				<b>ZB10,LGS:FORTL.ZAHLEN</b>	<b>1053014</b>	10
<b>Flat zack marker strip, 10-section, printed horizontally:</b> with consecutive numbers, e.g., 1-10, 11-20, etc. up to 91-100 <sup>1)</sup>	white				<b>ZB10,LGS:GLEICHE ZAHLEN</b>	<b>1053030</b>	10
Markers for a terminal block width of 10.2 mm	white				<b>ZB10,LGS:L1-N,PE</b>	<b>1053412</b>	10
<b>Zack marker strip, printed horizontally,</b> 10-section, with same numbers, e.g., 1/1/1, 2/2/2, etc. up to 100/100/100 <sup>1)</sup>	white				<b>ZB10,LGS:U-N</b>	<b>1053438</b>	10
<b>Zack marker strip, 10-section, printed horizontally:</b> with L1, L2, L3, N, PE <sup>1)</sup>	white				<b>ZB10,QR:FORTL.ZAHLEN</b>	<b>1053027</b>	10
U, V, W, N, ↓	white						
5-section	white						
<b>Zack marker strip, printed vertically,</b> 10-section, with consecutive numbers, e.g., 1-10, 11-20, etc. up to 91-100 <sup>1)</sup>	white						
		Accessories			Accessories		
<b>Magazine, for CMS-P1-PLOTTER</b>		<b>CMS-P1-M/ZB</b>	<b>5144699</b>	1	<b>CMS-P1-M/ZB</b>	<b>5144699</b>	1

PRINTED  
FOR YOU



Markers for a terminal block width of 12 mm

PRINTED  
FOR YOU



Markers for a terminal block width of 13 mm

PRINTED  
FOR YOU



Markers for a terminal block width of 15 mm

Technical data
CMS-P1-PLOTTER PA V2 -40 ... 100 DIN EN 61010-1 (VDE 0411-1) Free from silicone and halogen

Technical data
CMS-P1-PLOTTER PA V2 -40 ... 100 DIN EN 61010-1 (VDE 0411-1) Free from silicone and halogen

Technical data
CMS-P1-PLOTTER PA V2 -40 ... 100 DIN EN 61010-1 (VDE 0411-1) Free from silicone and halogen

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZB 12:UNPRINTED	0812120	10
ZB 12,LGS:L1-N,PE	0812146	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZB 13:UNBEDRUCKT	0829131	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZB 15:UNBEDRUCKT	0811972	10
ZB 15,LGS:L1-N,PE	0811998	10

Accessories		
CMS-P1-M/ZB	5144699	1

Accessories		
CMS-P1-M/ZB	5144699	1

Accessories		
CMS-P1-M/ZB	5144699	1

# Marking and labeling - MARKING system

## Terminal marking

### Zack marker strip terminal marking for tall marker groove

- The ZB zack marker strip system is a marking solution for modular terminal blocks and electronic modules with tall marker grooves
- Marking service: Phoenix Contact can custom-mark all zack marker strip markers in accordance with your requirements



Markers for a terminal block width of 16.3 mm



Markers for a terminal block width of 17 mm

**Notes:**  
 1) 10 identically marked strips make up one packing unit (PU).

General data	
Can be marked using	CMS-P1-PLOTTER
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 100 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Free from silicone and halogen

Ordering data	
Description	Color
<b>Zack marker strip, 5-section, unprinted:</b> pack contains enough to label 50 terminal blocks	white
4-part, for 40 terminals	white
<b>Zack marker strip, 5-section, printed horizontally:</b> With L1, L2, L3, N, PE <sup>1)</sup>	white
4-section	white

Accessories	
Magazine, for CMS-P1-PLOTTER	

Technical data		
CMS-P1-PLOTTER		
PA		
V2		
-40 ... 100		
DIN EN 61010-1 (VDE 0411-1)		
Free from silicone and halogen		

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZB 16,3:UNPRINTED	0820222	10

Accessories		
CMS-P1-M/ZB	5144699	1

Technical data		
CMS-P1-PLOTTER		
PA		
V2		
-40 ... 100		
DIN EN 61010-1 (VDE 0411-1)		
Free from silicone and halogen		

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZB 17:UNBEDRUCKT	0829391	10

Accessories		
CMS-P1-M/ZB	5144699	1



Markers for a terminal block width of 18 mm



Markers for a terminal block width of 22 mm



Markers for a terminal block width of 25 mm

Technical data
CMS-P1-PLOTTER PA V2 -40 ... 100 DIN EN 61010-1 (VDE 0411-1) Free from silicone and halogen

Technical data
CMS-P1-PLOTTER PA V2 -40 ... 100 DIN EN 61010-1 (VDE 0411-1) Free from silicone and halogen

Technical data
CMS-P1-PLOTTER • X-PEN 0,35 • P-PEN PA V2 -40 ... 100 DIN EN 61010-1 (VDE 0411-1) Free from silicone and halogen

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZB 18:UNBEDRUCKT	0811833	10
ZB 18,LGS:L1-N,PE	0811846	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZB 22:UNBEDRUCKT	0811862	10
ZB 22,LGS:L1-N,PE	0811875	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZB 25:UNPRINTED	0802751	10

Accessories		
Type	Order No.	Pcs. / Pkt.
CMS-P1-M/ZB	5144699	1

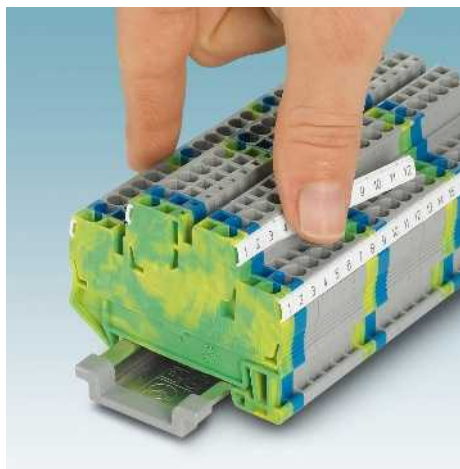
Accessories		
Type	Order No.	Pcs. / Pkt.
CMS-P1-M/ZB	5144699	1

Accessories		
Type	Order No.	Pcs. / Pkt.
CMS-P1-M/ZB	5144699	1

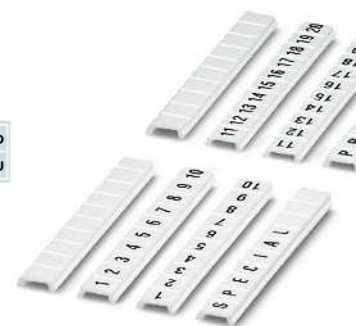
## Terminal marking

### Zack marker strip terminal marking for flat marker groove

Can be marked using:



Plotter



Markers for a terminal block width of 3.5 mm

- The ZBF zack marker strip system with flat marker groove is a marking solution for terminal blocks and electronics modules
- The multi-section marking strips are easy to fit and can be easily separated if required
- Different pitches are possible on request
- Unmarked marking strips can be custom-marked with a plotter or by hand
- Marking service: Phoenix Contact can custom-mark all zack marker strip markers in accordance with your requirements

### Selection of marking direction

- Please take care to select the correct marking direction for printed products
- ① "Printed horizontally" marking, text is the right way round for a horizontally arranged terminal strip
- ② "Printed vertically" marking, text is the right way round for a vertically arranged terminal strip

**Notes:**  
An overview of the terminal blocks that can be marked that are available from Phoenix Contact can be found starting on page 100.  
1) 10 identically marked strips make up one packing unit (PU).

General data	
Can be marked using	CMS-P1-PLOTTER
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 100 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Free from silicone and halogen

Description	Color
<b>Zack flat marker strip, horizontal, 10-section, unprinted:</b> pack contains enough to label 100 terminal blocks	
as above, however, large batch, sufficient for 1000 terminal blocks	white
<b>Zack marker strip, flat, printed horizontally,</b> ten sections with consecutive numbers, e.g., 1 - 10, 11 - 20, etc. up to 91 - 100, (ZBF 3.5 and ZBF 4, max. 2 digits <sup>1)</sup> )	white
Markers for a terminal block width of 5.2 mm	white
<b>Zack marker strip, flat, printed horizontally,</b> 10-section, with even numbers, e.g., 2-20, 22-40, etc. up to 82-100, (ZBF 4 max. 2-digit <sup>1)</sup> )	white
<b>Zack marker strip, flat, printed horizontally,</b> 10-section, with odd numbers, e.g. 1-19, 21-39, etc. up to 81-99, (ZBF 4 max. 2-digit <sup>1)</sup> )	white
<b>Zack marker strip, flat, printed vertically,</b> 10-section, with consecutive numbers, e.g., 1-10, 11-20, etc. up to 91-100 <sup>1)</sup> )	white

### Technical data

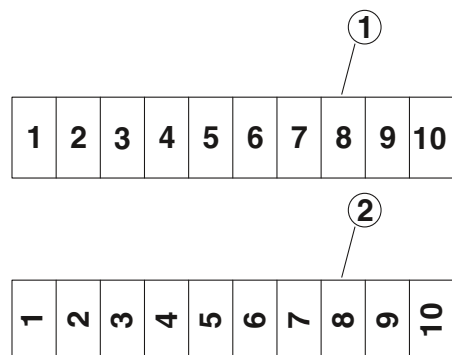
CMS-P1-PLOTTER
PA
V2
-40 ... 100 [°C]
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

### Ordering data

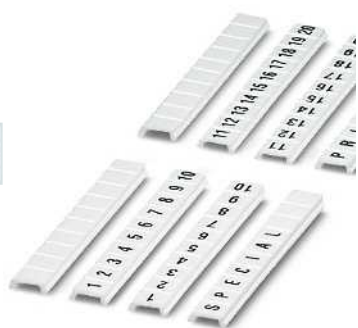
Type	Order No.	Pcs. / Pkt.
ZBF 3,5:UNBEDRUCKT	0829392	10
ZBF 3,5,LGS:FORTL.ZAHLEN	0801406	10
ZBF 3,5,QR:FORTL.ZAHLEN	0801407	10

### Accessories

CMS-P1-M/ZBF	5144709	1
--------------	---------	---

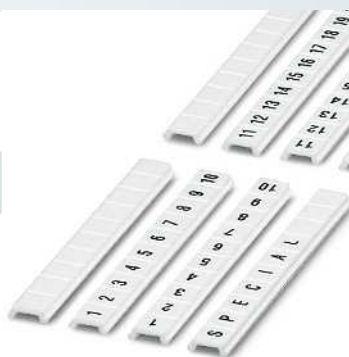


PRINTED  
FOR YOU



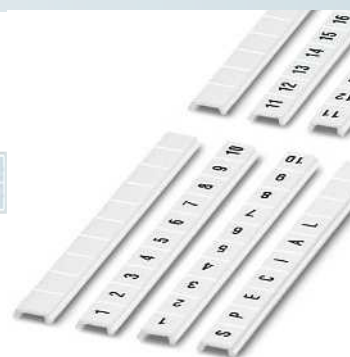
Markers for a terminal block width of 4.2 mm

PRINTED  
FOR YOU



Markers for a terminal block width of 5.2 mm

PRINTED  
FOR YOU



Markers for a terminal block width of 6.2 mm

### Technical data

CMS-P1-PLOTTER  
PA  
V2  
-40 ... 100  
DIN EN 61010-1 (VDE 0411-1)  
Free from silicone and halogen

### Ordering data

Type	Order No.	Pcs. / Pkt.
ZBF 4:UNBEDRUCKT	0808587	10
ZBF 4/WH-100:UNBEDRUCKT	0808613	100
ZBF 4,LGS:FORTL.ZAHLEN	0808626	10
ZBF 4,LGS:GERADE ZAHLEN	0810818	10
ZBF 4,LGS:UNGERADE ZAHLEN	0810850	10
ZBF 4,QR:FORTL.ZAHLEN	0808820	10

### Accessories

CMS-P1-M/ZBF	5144709	1
--------------	---------	---

### Technical data

CMS-P1-PLOTTER  
PA  
V2  
-40 ... 100  
DIN EN 61010-1 (VDE 0411-1)  
Free from silicone and halogen

### Ordering data

Type	Order No.	Pcs. / Pkt.
ZBF 5:UNBEDRUCKT	0808642	10
ZBF 5/WH-100:UNBEDRUCKT	0808668	100
ZBF 5,LGS:FORTL.ZAHLEN	0808671	10
ZBF 5,LGS:GERADE ZAHLEN	0810821	10
ZBF 5,LGS:UNGERADE ZAHLEN	0810863	10
ZBF 5,QR:FORTL.ZAHLEN	0808697	10

### Accessories

CMS-P1-M/ZBF	5144709	1
--------------	---------	---

### Technical data

CMS-P1-PLOTTER  
PA  
V2  
-40 ... 100  
DIN EN 61010-1 (VDE 0411-1)  
Free from silicone and halogen

### Ordering data

Type	Order No.	Pcs. / Pkt.
ZBF 6:UNBEDRUCKT	0808710	10
ZBF 6/WH-100:UNBEDRUCKT	0808736	100
ZBF 6,LGS:FORTL.ZAHLEN	0808749	10
ZBF 6,LGS:GERADE ZAHLEN	0810834	10
ZBF 6,LGS:UNGERADE ZAHLEN	0810876	10
ZBF 6,QR:FORTL.ZAHLEN	0808765	10

### Accessories

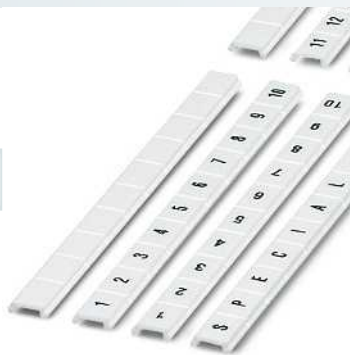
CMS-P1-M/ZBF	5144709	1
--------------	---------	---

# Marking and labeling - MARKING system

## Terminal marking

### Zack marker strip terminal marking for flat marker groove

- The ZBF zack marker strip system with flat marker groove is a marking solution for terminal blocks and electronics modules
- Marking service: Phoenix Contact can custom-mark all zack marker strip markers in accordance with your requirements



Markers for a terminal block width of 7.5 mm



Markers for a terminal block width of 8.2 mm

**Notes:**  
 1) 10 identically marked strips make up one packing unit (PU).

	Technical data			Technical data			
<b>General data</b>							
Can be marked using	CMS-P1-PLOTTER			CMS-P1-PLOTTER			
Material	PA			PA			
Inflammability class according to UL 94	V2			V2			
Temperature range	-40 ... 100 [°C]			-40 ... 100			
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)			DIN EN 61010-1 (VDE 0411-1)			
Components	Free from silicone and halogen			Free from silicone and halogen			
	Ordering data			Ordering data			
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
<b>Zack marker strip, flat, 10-section, without color print</b>	white	<b>ZBF 7,5:UNBEDRUCKT</b>	<b>0809942</b>	10	<b>ZBF 8:UNBEDRUCKT</b>	<b>0808781</b>	10
5-section	white						
<b>Zack marker strip, flat, printed horizontally, 10-section, with consecutive numbers, e.g., 1-10, 11-20, etc. up to 91-100<sup>1)</sup></b>	white	<b>ZBF 7,5,LGS:FORTL.ZAHLEN</b>	<b>0809955</b>	10	<b>ZBF 8,LGS:FORTL.ZAHLEN</b>	<b>0808804</b>	10
Markers for a terminal block width of 8.2 mm	white						
<b>Zack marker strip, flat, printed vertically, 10-section, with consecutive numbers, e.g., 1-10, 11-20, etc. up to 91-100<sup>1)</sup></b>	white	<b>ZBF 7,5,QR:FORTL.ZAHLEN</b>	<b>0809968</b>	10			
		Accessories			Accessories		
<b>Magazine, for CMS-P1-PLOTTER</b>		<b>CMS-P1-M/ZBF</b>	<b>5144709</b>	1	<b>CMS-P1-M/ZBF</b>	<b>5144709</b>	1

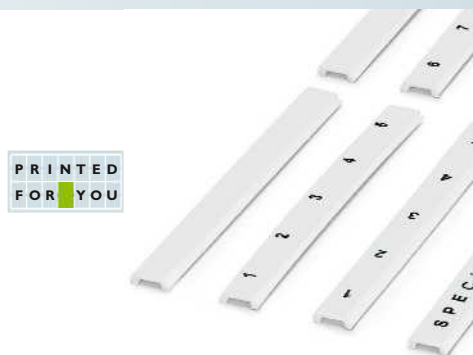




Markers for a terminal block width of 9 mm



Markers for a terminal block width of 10.2 mm



Markers for a terminal block width of 12 mm

Technical data
CMS-P1-PLOTTER PA V2 -40 ... 100 DIN EN 61010-1 (VDE 0411-1) Free from silicone and halogen

Technical data
CMS-P1-PLOTTER PA V2 -40 ... 100 DIN EN 61010-1 (VDE 0411-1) Free from silicone and halogen

Technical data
CMS-P1-PLOTTER PA V2 -40 ... 100 DIN EN 61010-1 (VDE 0411-1) Free from silicone and halogen

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZBF 9:UNBEDRUCKT	0829129	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZBF10:UNBEDRUCKT	0809997	10
ZBF10,LGS:FORTL.ZAHLEN	0810009	10
ZBF10,QR:FORTL.ZAHLEN	0810025	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZBF 12:UNBEDRUCKT	0809735	10

Accessories		
Type	Order No.	Pcs. / Pkt.
CMS-P1-M/ZBF	5144709	1

Accessories		
Type	Order No.	Pcs. / Pkt.
CMS-P1-M/ZBF	5144709	1

Accessories		
Type	Order No.	Pcs. / Pkt.
CMS-P1-M/ZBF	5144709	1

## Terminal marking

### Zack marker strip terminal marking for flat marker groove

- The ZBF zack marker strip system with flat marker groove is a marking solution for terminal blocks and electronics modules
- Marking service: Phoenix Contact can custom-mark all zack marker strip markers in accordance with your requirements



Markers for a terminal block width of 13 mm



Markers for a terminal block width of 15 mm

		Technical data			Technical data		
<b>General data</b>		CMS-P1-PLOTTER			CMS-P1-PLOTTER		
Can be marked using		PA			PA		
Material		V2			V2		
Inflammability class according to UL 94		-40 ... 100			-40 ... 100		
Temperature range		DIN EN 61010-1 (VDE 0411-1)			DIN EN 61010-1 (VDE 0411-1)		
Wipe resistance		Free from silicone and halogen			Free from silicone and halogen		
Components							
		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Zack marker strip, flat, 5-section, without color print	white	ZBF 13:UNBEDRUCKT	0829133	10	ZBF 15:UNBEDRUCKT	0811202	10
		Accessories			Accessories		
Magazine, for CMS-P1-PLOTTER		CMS-P1-M/ZBF	5144709	1	CMS-P1-M/ZBF	5144709	1



Markers for a terminal block width of 16.3 mm



Markers for a terminal block width of 17 mm



Markers for a terminal block width of 19.7 mm

Technical data
CMS-P1-PLOTTER
PA
V2
-40 ... 100
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Technical data
CMS-P1-PLOTTER
PA
V2
-40 ... 100
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Technical data
CMS-P1-PLOTTER
PA
V2
-40 ... 100
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZBF 16:UNPRINTED	0827464	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZBF 17:UNBEDRUCKT	0815020	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZBF 19,7:UNBEDRUCKT	0810627	10

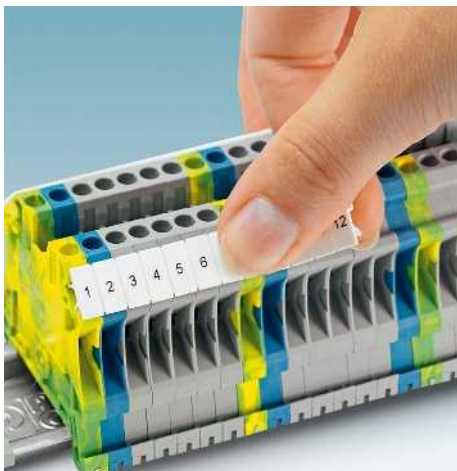
Accessories		
Type	Order No.	Pcs. / Pkt.
CMS-P1-M/ZBF	5144709	1

Accessories		
Type	Order No.	Pcs. / Pkt.
CMS-P1-M/ZBF	5144709	1

Accessories		
Type	Order No.	Pcs. / Pkt.
CMS-P1-M/ZBF	5144709	1

## Terminal marking

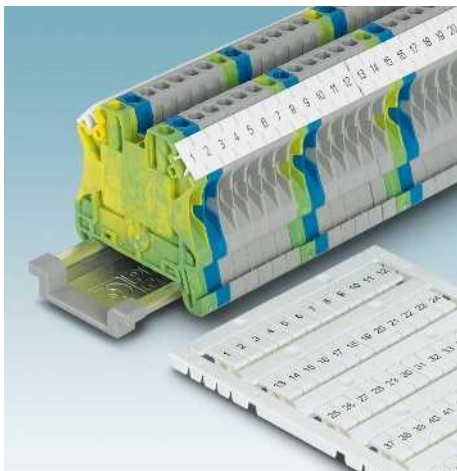
### UniCard terminal marking for tall marker groove



- The UCT-TM... UniCard marking range includes markers for products with tall marker grooves
- The markers, which are supplied in uniform sheets, can be marked quickly, easily, and precisely using the TOPMARK LASER, BLUEMARK..., and the THERMOMARK CARD
- The multi-section marking strips are easy to fit and can be easily separated if required
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

#### Notes:

An overview of the terminal blocks that can be marked that are available from Phoenix Contact can be found starting on page 100.



Can be marked using:



Thermal transfer for sheets and cards



UV LED technology



Direct laser marking

PRINTED  
FOR YOU



Markers for a terminal block width of up to 6.2 mm

#### General data

Can be marked using

Material

Inflammability class according to UL 94

Temperature range

Wipe resistance

Components

[°C]

#### Technical data

THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED • TOPMARK LASER

PC

V0

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

Free from silicone and halogen

#### Ordering data

Description	Color
-------------	-------

UniCard, for marking terminal blocks with a marker groove, 102-section, 17 individual labels per strip, for a terminal block width of 3.5 mm

white  
red  
orange  
yellow  
violet  
blue  
green

UCT-TM 3,5  
UCT-TM 3,5 RD  
UCT-TM 3,5 OG  
UCT-TM 3,5 YE  
UCT-TM 3,5 VT  
UCT-TM 3,5 BU  
UCT-TM 3,5 GN

0829484  
0829505  
0829506  
0829485  
0829507  
0829508  
0829509

10  
10  
10  
10  
10  
10  
10

UniCard, for marking terminal blocks with a marker groove, 84-section, 14 individual labels per strip, for a terminal block width of 4.2 mm

white  
red  
orange  
yellow  
violet  
blue  
green

UCT-TM 4  
UCT-TM 4 RD  
UCT-TM 4 OG  
UCT-TM 4 YE  
UCT-TM 4 VT  
UCT-TM 4 BU  
UCT-TM 4 GN

0828732  
0829149  
0829150  
0828733  
0829151  
0829152  
0829153

10  
10  
10  
10  
10  
10  
10

UniCard, for marking terminal blocks with a marker groove, 72-section, 12 individual labels per strip, for a terminal block width of 5.2 mm

white  
red  
orange  
yellow  
violet  
blue  
green

UCT-TM 5  
UCT-TM 5 RD  
UCT-TM 5 OG  
UCT-TM 5 YE  
UCT-TM 5 VT  
UCT-TM 5 BU  
UCT-TM 5 GN

0828734  
0829154  
0829155  
0828735  
0829156  
0829157  
0829158

10  
10  
10  
10  
10  
10  
10

UniCard, for marking terminal blocks with a marker groove, 60-section, 10 individual labels per strip, for a terminal block width of 6.2 mm

white  
red  
orange  
yellow  
violet  
blue  
green

UCT-TM 6  
UCT-TM 6 RD  
UCT-TM 6 OG  
UCT-TM 6 YE  
UCT-TM 6 VT  
UCT-TM 6 BU  
UCT-TM 6 GN

0828736  
0829159  
0829160  
0828737  
0829161  
0829162  
0829163

10  
10  
10  
10  
10  
10  
10

Magazine, for THERMOMARK CARD ... for accommodating: UCT-TM ..., UCT1-TM ..., UCT5-TM ..., UCT-EM (5X10), UCT-EM (6X10)

#### Accessories

Accessories	Order No.	Pcs. / Pkt.
THERMOMARK CARD-UCT-MAG1	5146480	1

UniCard terminal marking for tall marker groove

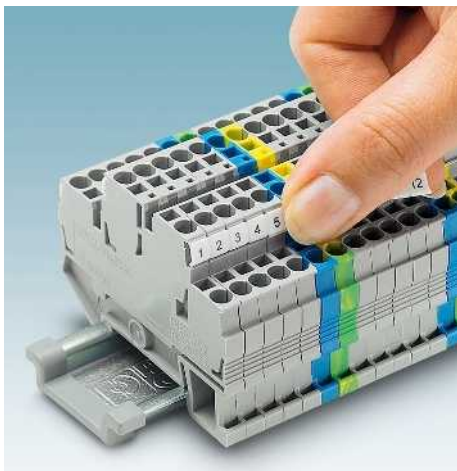


Markers for terminal block widths up to 16 mm

General data		Technical data		
Can be marked using		THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED • TOPMARK LASER		
Material		PC		
Inflammability class according to UL 94		V0		
Temperature range	[°C]	-40 ... 120		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)		
Components		Free from silicone and halogen		
Description		Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.
<b>UniCard</b> , for marking terminal blocks with a marker groove, 48-section, 8 individual labels per strip, for a terminal block width of 7.62 mm	white	UCT-TM 7,62	0828738	10
	red	UCT-TM 7,62 RD	0829510	10
	orange	UCT-TM 7,62 OG	0829511	10
	yellow	UCT-TM 7,62 YE	0828739	10
	violet	UCT-TM 7,62 VT	0829512	10
	blue	UCT-TM 7,62 BU	0829513	10
	green	UCT-TM 7,62 GN	0829514	10
<b>UniCard</b> , for marking terminal blocks with a marker groove, 42-section, 7 individual labels per strip, for a terminal block width of 8.2 mm	white	UCT-TM 8	0828740	10
	red	UCT-TM 8 RD	0829164	10
	orange	UCT-TM 8 OG	0829165	10
	yellow	UCT-TM 8 YE	0828741	10
	violet	UCT-TM 8 VT	0829166	10
	blue	UCT-TM 8 BU	0829167	10
	green	UCT-TM 8 GN	0829168	10
<b>UniCard</b> , for marking terminal blocks with a marker groove, 36-section, 6 individual labels per strip, for a terminal block width of 10.2 mm	white	UCT-TM 10	0829142	10
	red	UCT-TM 10 RD	0829169	10
	orange	UCT-TM 10 OG	0829170	10
	yellow	UCT-TM 10 YE	0829143	10
	violet	UCT-TM 10 VT	0829171	10
	blue	UCT-TM 10 BU	0829172	10
	green	UCT-TM 10 GN	0829173	10
<b>UniCard</b> , for marking terminal blocks with a marker groove, 30-section, 5 individual labels per strip, for a terminal block width of 12 mm	white	UCT-TM 12	0829144	10
	red	UCT-TM 12 RD	0829174	10
	orange	UCT-TM 12 OG	0829175	10
	yellow	UCT-TM 12 YE	0829145	10
	violet	UCT-TM 12 VT	0829176	10
	blue	UCT-TM 12 BU	0829177	10
	green	UCT-TM 12 GN	0829178	10
<b>UniCard</b> , for marking terminal blocks with a marker groove, 18-section, 3 individual labels per strip, for a terminal block width of 16 mm	white	UCT-TM 16	0829146	10
	red	UCT-TM 16 RD	0829179	10
	orange	UCT-TM 16 OG	0829180	10
	yellow	UCT-TM 16 YE	0829147	10
	violet	UCT-TM 16 VT	0829181	10
	blue	UCT-TM 16 BU	0829182	10
	green	UCT-TM 16 GN	0829183	10

## Terminal marking

### UniCard terminal marking for flat marker groove



- The UCT-TMF ... UniCard marking range includes markers for products with tall and flat marker grooves
- The markers, which are supplied in uniform sheets, can be marked quickly, easily, and precisely using the TOPMARK LASER, BLUEMARK..., and the THERMOMARK CARD
- The multi-section marking strips are easy to fit and can be easily separated if required
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

#### Notes:

An overview of the terminal blocks that can be marked that are available from Phoenix Contact can be found starting on page 100

Can be marked using:



Thermal transfer for sheets and cards



UV LED technology



Direct laser marking

PRINTED  
FOR YOU



Markers for a terminal block width of up to 6.2 mm

#### General data

Can be marked using

Material

Inflammability class according to UL 94

Temperature range

Wipe resistance

Components

[°C]

#### Technical data

THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED • TOPMARK LASER

PC

V0

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

Free from silicone and halogen

#### Ordering data

Description	Color
-------------	-------

UniCard, for marking terminal blocks with a flat marker groove, 108-section, 18 individual labels per strip, for a terminal block width of 3.5 mm

white  
red  
orange  
yellow  
violet  
blue  
green

UCT-TMF 3,5  
UCT-TMF 3,5 RD  
UCT-TMF 3,5 OG  
UCT-TMF 3,5 YE  
UCT-TMF 3,5 VT  
UCT-TMF 3,5 BU  
UCT-TMF 3,5 GN

Order No.	Pcs. / Pkt.
0829486	10
0829515	10
0829516	10
0829487	10
0829517	10
0829518	10
0829519	10

UniCard, for marking terminal blocks with a flat marker groove, 90-section, 15 individual labels per strip, for a terminal block width of 4.2 mm

white  
red  
orange  
yellow  
violet  
blue  
green

UCT-TMF 4  
UCT-TMF 4 RD  
UCT-TMF 4 OG  
UCT-TMF 4 YE  
UCT-TMF 4 VT  
UCT-TMF 4 BU  
UCT-TMF 4 GN

Order No.	Pcs. / Pkt.
0828742	10
0829184	10
0829185	10
0828743	10
0829186	10
0829187	10
0829188	10

UniCard, for marking terminal blocks with a flat marker groove, 72-section, 12 individual labels per strip, for a terminal block width of 5.2 mm

white  
red  
orange  
yellow  
violet  
blue  
green

UCT-TMF 5  
UCT-TMF 5 RD  
UCT-TMF 5 OG  
UCT-TMF 5 YE  
UCT-TMF 5 VT  
UCT-TMF 5 BU  
UCT-TMF 5 GN

Order No.	Pcs. / Pkt.
0828744	10
0829189	10
0829190	10
0828745	10
0829191	10
0829192	10
0829193	10

UniCard, for marking terminal blocks with a flat marker groove, 60-section, 10 individual labels per strip, for a terminal block width of 6.2 mm

white  
red  
orange  
yellow  
violet  
blue  
green

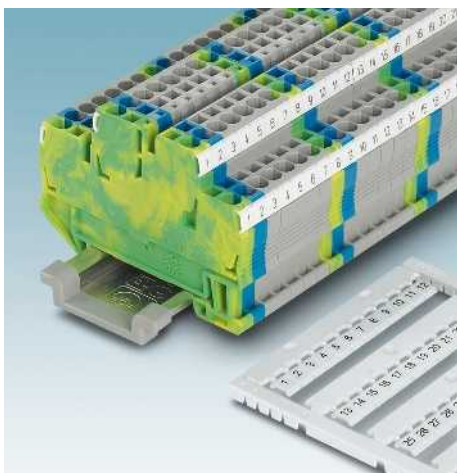
UCT-TMF 6  
UCT-TMF 6 RD  
UCT-TMF 6 OG  
UCT-TMF 6 YE  
UCT-TMF 6 VT  
UCT-TMF 6 BU  
UCT-TMF 6 GN

Order No.	Pcs. / Pkt.
0828746	10
0829194	10
0829195	10
0828747	10
0829196	10
0829197	10
0829198	10

Magazine, for THERMOMARK CARD ..., for accommodating: UCT-TMF ...

#### Accessories

Accessories	Order No.	Pcs. / Pkt.
THERMOMARK CARD-UCT-MAG2	5146563	1



UniCard terminal marking for flat marker groove

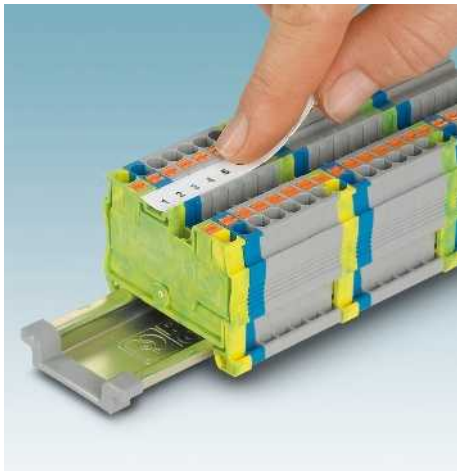


Markers for terminal block widths up to 16 mm

General data		Technical data			
Can be marked using		THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED • TOPMARK LASER			
Material		PC			
Inflammability class according to UL 94		V0			
Temperature range		-40 ... 120 [°C]			
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)			
Components		Free from silicone and halogen			
Description		Ordering data			
		Type	Order No.	Pcs. / Pkt.	
<b>UniCard</b> , for marking terminal blocks with a flat marker groove, 42-section, 7 individual labels per strip, for a terminal block width of 8.2 mm		white	UCT-TMF 8	0828748	10
		red	UCT-TMF 8 RD	0829199	10
		orange	UCT-TMF 8 OG	0829200	10
		yellow	UCT-TMF 8 YE	0828749	10
		violet	UCT-TMF 8 VT	0829201	10
		blue	UCT-TMF 8 BU	0829202	10
		green	UCT-TMF 8 GN	0829203	10
<b>UniCard</b> , for marking terminal blocks with a flat marker groove, 36-section, 6 individual labels per strip, for a terminal block width of 10.2 mm		white	UCT-TMF 10	0829204	10
		red	UCT-TMF 10 RD	0829205	10
		orange	UCT-TMF 10 OG	0829206	10
		yellow	UCT-TMF 10 YE	0829207	10
		violet	UCT-TMF 10 VT	0829208	10
		blue	UCT-TMF 10 BU	0829209	10
		green	UCT-TMF 10 GN	0829210	10
<b>UniCard</b> , for marking terminal blocks with a flat marker groove, 30-section, 5 individual labels per strip, for a terminal block width of 12 mm		white	UCT-TMF 12	0829214	10
		red	UCT-TMF 12 RD	0829212	10
		orange	UCT-TMF 12 OG	0829213	10
		yellow	UCT-TMF 12 YE	0829211	10
		violet	UCT-TMF 12 VT	0829215	10
		blue	UCT-TMF 12 BU	0829216	10
		green	UCT-TMF 12 GN	0829217	10
<b>UniCard</b> , for marking terminal blocks with a flat marker groove, 24-section, 4 individual labels per strip, for a terminal block width of 16 mm		white	UCT-TMF 16	0829218	10
		red	UCT-TMF 16 RD	0829219	10
		orange	UCT-TMF 16 OG	0829220	10
		yellow	UCT-TMF 16 YE	0829221	10
		violet	UCT-TMF 16 VT	0829222	10
		blue	UCT-TMF 16 BU	0829223	10
		green	UCT-TMF 16 GN	0829224	10
Magazine, for THERMOMARK CARD ..., for accommodating: UCT-TMF ...		Accessories			
		THERMOMARK CARD-UCT-MAG2	5146563	1	

## Terminal marking

### UniSheet terminal marking for a universal marker groove



- The US-TM 100 UniSheet markers are suitable for products with universal marker grooves
- The markers, which are supplied as uniform cards, can be printed onto quickly, easily, and precisely using the THERMOMARK CARD
- The perforated marking strips are easy to separate and can be easily fitted
- The cards provide space for including function texts
- Marking service: Phoenix Contact can custom-mark all UniSheet markers in accordance with your requirements

#### Notes:

An overview of the terminal blocks that can be marked that are available from Phoenix Contact can be found starting on page 100.

Can be marked using:



Thermal transfer for sheets and cards

PRINTED  
FOR YOU



13 strips with a strip width of 104 mm

#### General data

Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

#### Technical data

THERMOMARK CARD
PVC
V0
-30 ... 80
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Description	Color
UniSheet, for marking push-in terminal blocks with a special center groove	white

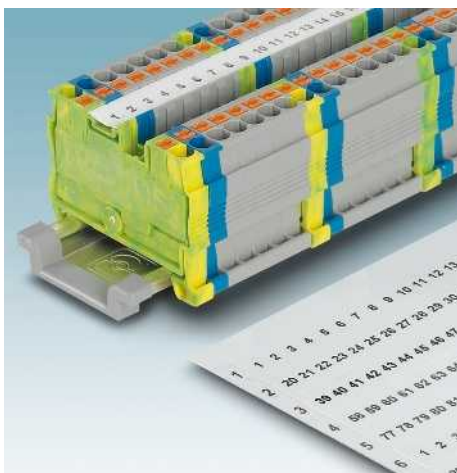
#### Ordering data

Type	Order No.	Pcs. / Pkt.
US-TM 100	0829255	10

Magazine, for THERMOMARK CARD..., for accommodating all US-materials

#### Accessories

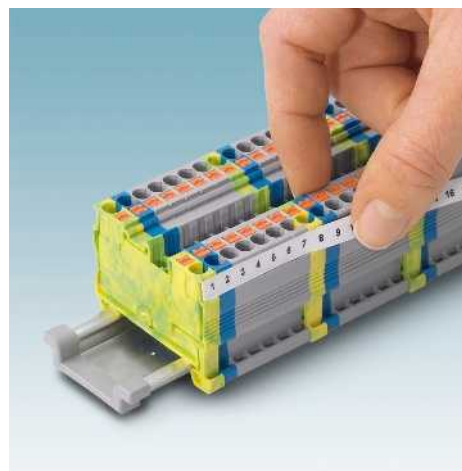
Type	Order No.	Pcs. / Pkt.
THERMOMARK CARD-US-MAG1	5146451	1





**UniSheet terminal marking for a flat marker groove**

Can be marked using:



Thermal transfer for sheets and cards



20 strips with a strip width of 104 mm

- The US-TMF 100 UniSheet markers are suitable for products with a flat marker groove
- The markers, which are supplied as uniform cards, can be printed onto quickly, easily, and precisely using the THERMOMARK CARD
- The perforated marking strips are easy to separate and can be easily fitted
- The cards provide space for including function texts
- Marking service: Phoenix Contact can custom-mark all UniSheet markers in accordance with your requirements

General data	
Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data	
THERMOMARK CARD	
PVC	
V0	
-30 ... 80	
DIN EN 61010-1 (VDE 0411-1)	
Silicone-free	

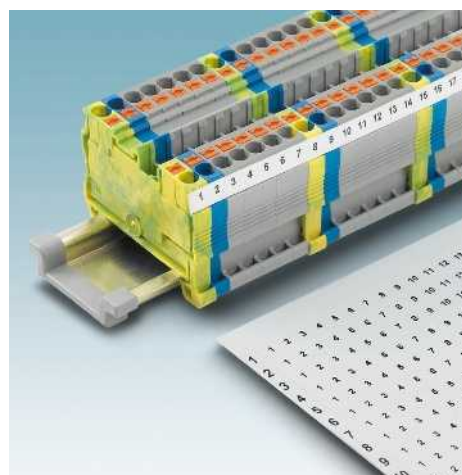
Description	Color
UniSheet, for marking terminal blocks with a tall, flat or universal marker groove	white

Ordering data		
Type	Order No.	Pcs. / Pkt.
US-TMF 100	0829260	10

Accessories		
Magazine, for THERMOMARK CARD..., for accommodating all US-materials		

THERMOMARK CARD-US-MAG1	5146451	1
-------------------------	---------	---

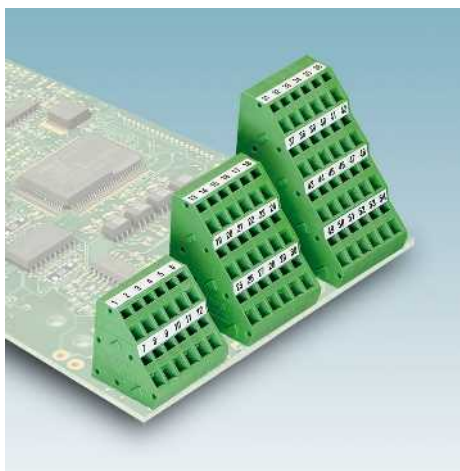
**Notes:**  
An overview of the terminal blocks that can be marked that are available from Phoenix Contact can be found starting on page 100



## Terminal marking

**UniSheet marker strips, self-adhesive, for terminal blocks without marker groove**

Can be marked using:



Thermal transfer for sheets and cards



26 strips, 104 mm wide, 2.8 mm high

- The US-TML marking range includes self-adhesive marker strips for products without a marker groove
- The markers, which are supplied as uniform cards, can be printed onto quickly, easily, and precisely using the THERMOMARK CARD
- The perforated marking strips are easy to separate and can be easily fitted
- The cards provide space for including function texts

General data	
Can be marked using	
Number of individual labels	
Number of individual labels per strip	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data	
THERMOMARK CARD	
26	
1	
Polyester	
-40 ... 150	
DIN EN 61010-1 (VDE 0411-1)	
Free from silicone and halogen	

Description	Color
UniSheet, unprinted, for marking terminal blocks without marker groove	
Lettering field size: 104 x 2.8 mm	white
UniSheet, unprinted, for marking terminal blocks without marker groove	
Lettering field size: 104 x 3.8 mm	white
Lettering field size: 104 x 5 mm	white
Lettering field size: 104 x 10 mm	white

Ordering data		
Type	Order No.	Pcs. / Pkt.
US-TML (104X2,8)	0830767	10

Accessories	
Magazine, for THERMOMARK CARD..., for accommodating all US-materials	

THERMOMARK CARD-US-MAG1	5146451	1
-------------------------	---------	---



22 strips, 104 mm wide, 3.8 mm high



19 strips, 104 mm wide, 5 mm high



11 strips, 104 mm wide, 10 mm high

**Technical data**

THERMOMARK CARD  
22  
1  
Polyester  
-40 ... 150  
DIN EN 61010-1 (VDE 0411-1)  
Free from silicone and halogen

**Technical data**

THERMOMARK CARD  
19  
1  
Polyester  
-40 ... 150  
DIN EN 61010-1 (VDE 0411-1)  
Free from silicone and halogen

**Technical data**

THERMOMARK CARD  
11  
1  
Polyester  
-40 ... 150  
DIN EN 61010-1 (VDE 0411-1)  
Free from silicone and halogen

**Ordering data**

Type	Order No.	Pcs. / Pkt.
US-TML (104X3,8)	0830768	10

**Ordering data**

Type	Order No.	Pcs. / Pkt.
US-TML (104X5)	0830769	10

**Ordering data**

Type	Order No.	Pcs. / Pkt.
US-TML (104X10)	0830770	10

**Accessories**

THERMOMARK CARD-US-MAG1	5146451	1
-------------------------	---------	---

**Accessories**

THERMOMARK CARD-US-MAG1	5146451	1
-------------------------	---------	---

**Accessories**

THERMOMARK CARD-US-MAG1	5146451	1
-------------------------	---------	---

## Terminal marking

### Marker strips for terminal marking, for tall and flat marker grooves



- The TMT marking range includes markers for all products with tall and flat marker grooves
- The markers that are supplied on rolls can be quickly and cost-effectively marked using THERMOMARK printers
- The perforated marking strips are easy to separate and can be easily fitted using the tool supplied
- Marking service: Phoenix Contact can custom-mark all TMT markers in accordance with your requirements

**Notes:**  
An overview of the terminal blocks that can be marked that are available from Phoenix Contact can be found starting on page 100.  
1) The TMT TOOL snap-in tool can only be used for terminal blocks from Phoenix Contact.

Can be marked using:



Thermal transfer for rolls



Markers for terminal block widths up to 8.2 mm

#### General data

Can be marked using	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

#### Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1  
Polyester  
-40 ... 120  
DIN EN 61010-1 (VDE 0411-1)  
Free from silicone and halogen

Description	Color
-------------	-------

**Markers, perforated, unprinted**, for a terminal block width of 4.2 mm, for all terminal blocks with a tall, flat or universal marker groove, 1 roll = 1000 strips, 24,000 individual labels, 24 individual labels per strip, strip height: 6.4 mm, incl. TMT TOOL

#### Ordering data

Type	Order No.	Pcs. / Pkt.
TMT 4 R	0816375	1
TMT 5 R	0816430	1
TMT 6 R	0816498	1
TMT 8 R	0816553	1

**Markers**, as above, for a terminal block width of 5.2 mm, 1 roll = 1000 strips, 19,000 individual labels, 19 individual labels per strip, incl. TMT TOOL

**Markers**, as above, for a terminal block width of 6.2 mm, 1 roll = 1000 strips, 16,000 individual labels, 16 individual labels per strip, incl. TMT TOOL

**Markers**, as above, for a terminal block width of 8.2 mm, 1 roll = 1000 strips, 12,000 individual labels, 12 individual labels per strip, incl. TMT TOOL

#### Accessories

Locking tool to snap into the TMT... materials <sup>1)</sup>	
	orange

TMT TOOL	0816650	1
----------	---------	---



**Marker strips for terminal marking, for tall and flat marker grooves**

**Notes:**  
 1) The TMT TOOL snap-in tool can only be used for terminal blocks from Phoenix Contact.



Markers for a terminal block width of 10.2 mm

General data		Technical data		
Can be marked using		THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1		
Material		Polyester		
Temperature range	[°C]	-40 ... 120		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)		
Components		Free from silicone and halogen		
Description		Ordering data		
	Color	Type	Order No.	Pcs. / Pkt.
<b>Markers, perforated, unprinted</b> , for all terminal blocks with a tall, flat or universal marker groove, 1 roll = 1000 strips, 10,000 individual labels, 10 individual labels per strip, strip height: 6.4 mm, incl. TMT TOOL				
	white	TMT 10 R	0816210	1
<b>Markers, for terminal blocks, unperforated, unprinted</b> , strip width: 101.5 mm, 1 roll = 1000 strips, 1000 individual labels, 1 individual label per strip, incl. TMT TOOL				
	white	TMT 100 R	0816605	1
Locking tool to snap into the TMT... materials <sup>1)</sup>		Accessories		
	orange	TMT TOOL	0816650	1

## Terminal marking

### Terminal marking, marker strips for tall and flat marker grooves



- The TMT marking range includes markers for all products with tall and flat marker grooves
- Marking service: Phoenix Contact can custom-mark all TMT markers in accordance with your requirements

#### Notes:

<sup>1)</sup> The TMT TOOL snap-in tool can only be used for terminal blocks from Phoenix Contact.

Can be marked using:



Thermal transfer for rolls

PRINTED  
FOR YOU



Unmarked or marked according to customer specifications

#### General data

Can be marked using

Material  
Material strength  
Inflammability class according to UL 94  
Temperature range [°C]  
Wipe resistance  
Components

#### Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1  
PVC  
0.50 mm  
V0  
-30 ... 80  
DIN EN 61010-1 (VDE 0411-1)  
Free from silicone and cadmium

Description	Color
<b>Insert strips</b> , unprinted, 1 roll = 50 m, continuous	
Strip height: 5.5 mm	white
Strip height: 6.2 mm	white
Strip height: 6.5 mm	white
Strip height: 7.5 mm	white
Strip height: 8 mm	white
Strip height: 8.5 mm	white
Strip height: 9.5 mm	white
Strip height: 10 mm	white
Strip height: 10.5 mm	white
Strip height: 10.8 mm	white
Strip height: 12 mm	white

#### Ordering data

Type	Order No.	Pcs. / Pkt.
<b>TMT (EX5,5)R</b>	0803062	1
<b>TMT (EX6,2)R</b>	0803063	1
<b>TMT (EX6,5)R</b>	0803064	1
<b>TMT (EX7,5)R</b>	0803065	1
<b>TMT (EX8)R</b>	0803066	1
<b>TMT (EX8,5)R</b>	0803067	1
<b>TMT (EX9,5)R</b>	0828295	1
<b>TMT (EX10)R</b>	0803068	1
<b>TMT (EX10,5)R</b>	0803070	1
<b>TMT2 (EX11)R</b>	0802683	1
<b>TMT (EX12)R</b>	0803071	1

**Locking tool** to snap into the TMT... materials<sup>1)</sup>

orange

**External media hub**, for roll diameters of 150 mm to 400 mm

#### Accessories

Accessories	Order No.	Pcs. / Pkt.
<b>TMT TOOL</b>	0816650	1
<b>THERMOMARK ROLL-ERH</b>	5146448	1

TMT ... terminal marking for terminal blocks from Phoenix Contact and other manufacturers

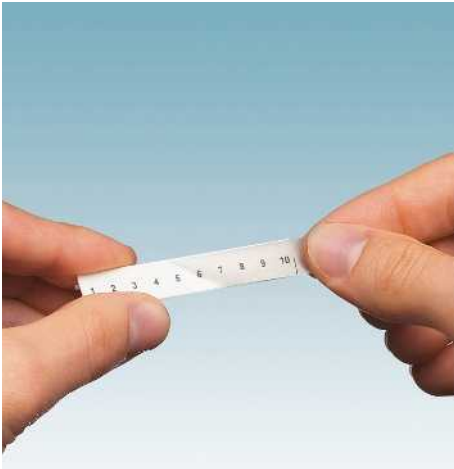


	TMT (EX5,5)R	TMT (EX6,2)R	TMT (EX6,5)R	TMT (EX7,5)R	TMT (EX8)R	TMT (EX8,5)R	TMT (EX9,5)R	TMT (EX10)R	TMT (EX10,5)R	TMT2 (EX11)R	TMT (EX12)R
<b>TMT- markers, roll</b>	0803062	0803063	0803064	0803065	0803066	0803067	0828295	0803068	0803070	0802683	0803071
Strip height	5.5	6.2	6.5	7.5	8	8.5	9.5	10	10.5	10.8	12
<b>Terminal manufacturer</b>											
Phoenix Contact		■					■				
Fuji Electronics Industry					■			■			
IDEC	■			■			■	■			
KASUGA	■		■				■				
TOGI						■		■			■
WAGO (2001 ... - 2016 ...)										■	
Yoshida Electronics	■		■	■		■		■	■		■

## Terminal marking

### Self-adhesive marker strips

Can be marked using:



Thermal transfer for rolls

PRINTED  
FOR YOU



Marker with strip width of 101.5 mm

- The products in the TML marking range allow subsequent marking of zack marker strip materials and flat zack marker strip materials using a marking foil
- The markers that are supplied on rolls can be quickly and cost-effectively marked using THERMOMARK printers
- Marking service: Phoenix Contact can custom-mark all TML markers in accordance with your requirements

**Notes:**  
An overview of the terminal blocks that can be marked that are available from Phoenix Contact can be found starting on page 100

General data	
Can be marked using	
Number of individual labels per strip	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data	
THERMOMARK ROLL • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1 • THERMOMARK ROLL X1	
1	
Polyester	
-40 ... 150	
DIN EN 61010-1 (VDE 0411-1)	
Silicone-free	

Description	Color
Marking foil for zack marker strip, unprinted, perforated, 1 roll = 1000 strips, strip length: 101 mm, strip height: 9.5 mm	transparent
Marking foil for zack marker strip, flat, unprinted, perforated, 1 roll = 1000 strips, strip length: 101 mm, strip height: 4.2 mm	transparent

Ordering data		
Type	Order No.	Pcs. / Pkt.
TML (101X9,5)R TR	0816647	1
TML (101X4,2)R TR	0816621	1





Self-adhesive marker strips

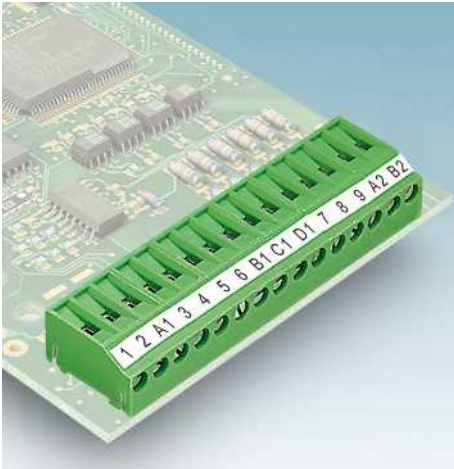


Marker with strip height of 9.5 mm and 4.2 mm, continuous

General data		Technical data		
Can be marked using		THERMOMARK ROLL • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1 • THERMOMARK ROLL X1		
Number of individual labels per strip		10		
Material		Polyester		
Temperature range	[°C]	-40 ... 150		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)		
Components		Silicone-free		
		Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.
<b>Marking foil for zack marker strip, unprinted, 1 roll = 40 m</b> continuous, strip height: 9.5 mm	transparent	<b>TML (EX9,5)R TR</b>	<b>0816634</b>	<b>1</b>
<b>Marking foil for zack marker strip, flat, unprinted, 1 roll = 40 m</b> continuous, strip height: 4.2 mm	transparent	<b>TML (EX4,2)R TR</b>	<b>0816715</b>	<b>1</b>
<b>Marking foil for zack marker strip, unprinted, 1 roll = 30 m</b> continuous, strip height: 7 mm	white	<b>TML (EX7)R</b>	<b>0830837</b>	<b>1</b>
<b>Marking foil for zack marker strip, unprinted, 1 roll = 30 m</b> continuous, strip height: 7 mm	silver	<b>TML (EX7)R SR</b>	<b>0830838</b>	<b>1</b>

## Terminal marking

### Self-adhesive marker strips for terminal blocks without a marker groove



– The TML marking range provides self-adhesive marker strips for marking products that do not have a marker groove



Thermal transfer for rolls



Unmarked

#### General data

Can be marked using

Number of individual labels per strip

Material

Temperature range

Wipe resistance

Components

[°C]

#### Technical data

THERMOMARK ROLL • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1 • THERMOMARK ROLL X1

1

Polyester

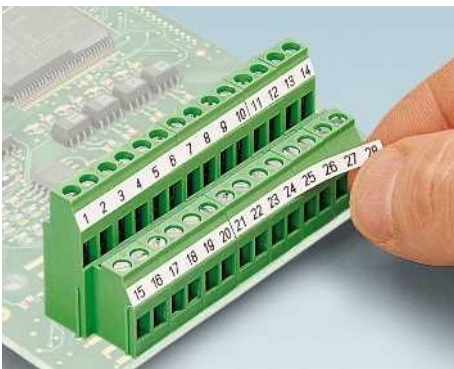
-40 ... 150

DIN EN 61010-1 (VDE 0411-1)

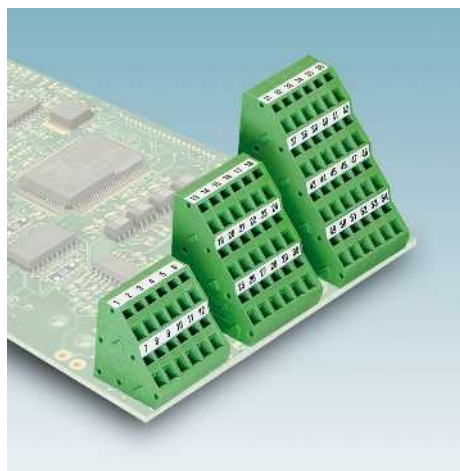
Free from silicone and halogen

#### Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
<b>Self-adhesive marker strips, unprinted</b>				
1 roll = 2500 strips, lettering field size: 104 x 2.8 mm	white	<b>TML (104X2,8)R</b>	<b>0801832</b>	1
1 roll = 2500 strips, lettering field size: 104 x 3.8 mm	white	<b>TML (104X3,8)R</b>	<b>0801833</b>	1
1 roll = 2500 strips, lettering field size: 104 x 5 mm	white	<b>TML (104X5)R</b>	<b>0801834</b>	1
1 roll = 1500 strips, lettering field size: 104 x 10 mm	white	<b>TML (104X10)R</b>	<b>0801835</b>	1



**Self-adhesive marker strips for terminal blocks without marker groove, continuous**



Thermal transfer for rolls



Unmarked

- The TML marking range provides self-adhesive marker strips for marking products that do not have a marker groove
- The marker strips are automatically perforated or cut to the required length during the printing process

**General data**

Can be marked using	
Number of individual labels per strip	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

**Technical data**

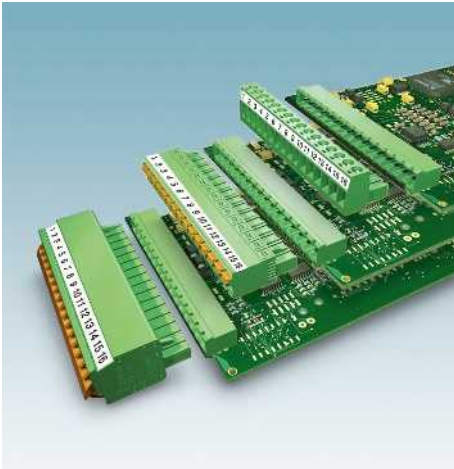
THERMOMARK ROLL • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1 • THERMOMARK ROLL X1 14  
 Polyester  
 -40 ... 150  
 DIN EN 61010-1 (VDE 0411-1)  
 Free from silicone and halogen

**Ordering data**

Description	Color	Type	Order No.	Pcs. / Pkt.
<b>Self-adhesive marker strips, unprinted, continuous</b>				
1 roll = 30 m continuous, strip height: 2.8 mm	white	TML (EX2,8)R	0801836	1
1 roll = 30 m continuous, strip height: 3.8 mm	white	TML (EX3,8)R	0801837	1
1 roll = 30 m continuous, strip height: 5 mm	white	TML (EX5)R	0801838	1
	white	TML (EX7)R	0830837	1
1 roll = 30 m continuous, strip height: 10 mm	white	TML (EX10)R	0801839	1

## Terminal marking

### Self-adhesive marker strips for terminal blocks without a marker groove



- The SK range of self-adhesive labels can be used to label products that do not feature a marker groove
- The markers that are supplied on rolls can be quickly and cost-effectively marked using THERMOMARK printers
- The markers that are supplied as cards can be easily marked using standard laser printers
- Ideal for marking COMBICON connectors
- Marking service: Phoenix Contact can custom-mark SK markers in accordance with your requirements

PRINTED  
FOR YOU



Markers marked up to 5.08 mm pitch

General data	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data	
Material	Polyester
Temperature range	-40 ... 150
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Free from silicone and halogen

Description	Color
-------------	-------

**Marker card, printed horizontally**, self-adhesive, 10-section marker strips, 14 identical sets of ten marked, e.g., 1 - 10, 11 - 20, and so on up to 91 - 99, enough to label 140 terminal blocks

white

**Marker card, printed horizontally**, self-adhesive, 10-section marker strips, 14 identical sets of ten marked, e.g., 1 - 10, 11 - 20, and so on up to 91 - 99, enough to label 140 terminal blocks

white

**Marker card, printed horizontally**, self-adhesive, 10-section marker strips, 14 identical sets of ten marked, e.g., 1 - 10, 11 - 20, and so on up to 91 - 99, enough to label 140 terminal blocks

white

**Marker card, printed horizontally**, self-adhesive, 10-section marker strips, 14 identical sets of ten marked, e.g., 1 - 10, 11 - 20, and so on up to 91 - 100, enough to label 140 terminal blocks

white

**Marker card, unprinted**, DIN A4 format, pitch as desired, self-adhesive, with 50 perforated marker strips, strip length of 185 mm

white

**Self-adhesive marker strips, unprinted, continuous**, material off the roll, for marking with thermal transfer printer, can be separated using cutter, pitch as desired, strip length of up to 1000 mm, 14 strips, strip height of 2.8 mm, 1 roll = 90 m

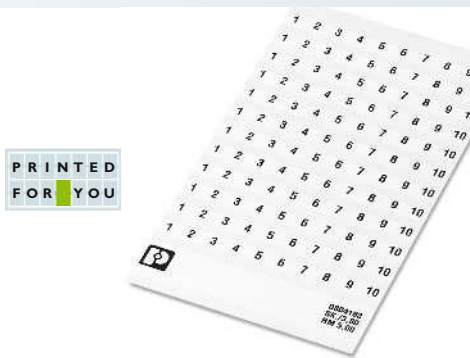
white

### Ordering data

Type	Order No.	Pcs. / Pkt.
SK 2,54/2,8:FORTL.ZAHLEN	0804853	10
SK 3,5/2,8:FORTL.ZAHLEN	0804073	10
SK 3,81/2,8:FORTL.ZAHLEN	0804109	10
SK 5,08/2,8:FORTL.ZAHLEN	0804280	10
SK U/2,8 WH:UNBEDRUCKT	0803883	10
SK 2,8 WH:REEL	0805205	1



**Self-adhesive marker strips for terminal blocks without a marker groove**



Markers marked up to 7.62 mm pitch

General data		Technical data		
Material		Polyester		
Temperature range	[°C]	-40 ... 150		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)		
Components		Free from silicone and halogen		
Description		Ordering data		
	Color	Type	Order No.	Pcs. / Pkt.
<b>Marker card, printed horizontally</b> , self-adhesive, 10-section marker strip, 12 identical sets of ten marked, for example, with 1-10, 11-20 etc. up to 91-100, sufficient for 120 terminal blocks				
	white	<b>SK 5/3,8:FORTL.ZAHLEN</b>	<b>0804183</b>	10
<b>Marker card, printed horizontally</b> , self-adhesive, 10-section marker strip, 12 identical sets of ten marked, for example, with 1-10, 11-20 etc. up to 91-100, sufficient for 120 terminal blocks				
	white	<b>SK 5,08/3,8:FORTL.ZAHLEN</b>	<b>0804293</b>	10
<b>Marker card, printed horizontally</b> , self-adhesive, 10-section marker strip, 12 identical sets of ten marked, for example, with 1-10, 11-20 etc. up to 91-100, sufficient for 120 terminal blocks				
	white	<b>SK 6,2/3,8:FORTL.ZAHLEN</b>	<b>0804374</b>	10
<b>Marker card, printed horizontally</b> , self-adhesive, 10-section marker strip, 12 identical sets of ten marked, for example, with 1-10, 11-20 etc. up to 91-100, sufficient for 120 terminal blocks				
	white	<b>SK 7,5/3,8:FORTL.ZAHLEN</b>	<b>0804455</b>	10
<b>Marker card, printed horizontally</b> , self-adhesive, 10-section marker strip, 12 identical sets of ten marked, for example, with 1-10, 11-20 etc. up to 91-100, sufficient for 120 terminal blocks				
	white	<b>SK 7,62/3,8:FORTL.ZAHLEN</b>	<b>0804549</b>	10
<b>Marker card, unprinted</b> , DIN A4 format, pitch as desired, self-adhesive, with 40 perforated marker strips, strip length of 185 mm				
	white	<b>SK U/3,8 WH:UNBEDRUCKT</b>	<b>0803906</b>	10
<b>Self-adhesive marker strips, unprinted, continuous</b> , material off the roll, for marking with thermal transfer printer, can be separated using cutter, pitch as desired, strip length of up to 1000 mm, 12 strips, strip height of 3.8 mm, 1 roll = 90 m				
	white	<b>SK 3,8 WH:REEL</b>	<b>0805218</b>	1

## Terminal marking

### Self-adhesive marker strips for terminal blocks without a marker groove

- The SK range of self-adhesive labels can be used to label products that do not feature a marker groove
- Marking service: Phoenix Contact can custom-mark all SK markers according to your requirements

PRINTED  
FOR YOU



Markers marked with 7.5 mm pitch

PRINTED  
FOR YOU



Markers marked with 7.62 mm pitch

General data		Technical data			Technical data		
Material		Polyester			Polyester		
Temperature range	[°C]	-40 ... 150			-40 ... 150		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)			DIN EN 61010-1 (VDE 0411-1)		
Components		Free from silicone and halogen			Free from silicone and halogen		
Description		Ordering data			Ordering data		
	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
<b>Marker card, printed horizontally</b> , self-adhesive, 10-section marker strip, 10 identical sets of ten marked 1-10, 11-20 etc. up to 91-100, for example, sufficient for 100 terminal blocks							
	white	SK 7,5/5:FORTL.ZAHLEN	0804468	10	SK 7,62/5:FORTL.ZAHLEN	0804552	10
<b>Marker card, unprinted</b> , DIN A4 format, pitch as desired, self-adhesive, with 35 perforated marker strips, strip length of 185 mm							
	white	SK U/5,0 WH:UNBEDRUCKT	0803922	10	SK U/5,0 WH:UNBEDRUCKT	0803922	10
<b>Self-adhesive marker strips, unprinted, continuous</b> , material off the roll, for marking with thermal transfer printer, can be separated using cutter, pitch as desired, strip length of up to 1000 mm, 10 strips, strip height of 5.0 mm, 1 roll = 90 m							
	white	SK 5,0 WH:REEL	0805221	1	SK 5,0 WH:REEL	0805221	1

**Self-adhesive marker strips for terminal blocks without a marker groove**



Markers with a strip length of up to 1000 mm

Markers with a strip length of up to 185 mm

General data		Technical data			Technical data		
Can be marked using		THERMOMARK ROLL • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1 • THERMOMARK ROLL X1			CMS-P1-PLOTTER • Office printing systems		
Material		Polyester			Polyester		
Temperature range [°C]		-40 ... 150			-40 ... 150		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)			DIN EN 61010-1 (VDE 0411-1)		
Components		Free from silicone and halogen			Free from silicone and halogen		
Description		Ordering data			Ordering data		
Color		Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Self-adhesive marker strips, unprinted, continuous, material off the roll, for marking with thermal transfer printer, can be separated using cutter, pitch as desired, strip length of up to 1000 mm, 14 strips, strip height of 2.8 mm, 1 roll = 90 m							
white		SK 2,8 WH:REEL	0805205	1			
Self-adhesive marker strips, unprinted, continuous, material off the roll, for marking with thermal transfer printer, can be separated using cutter, pitch as desired, strip length of up to 1000 mm, 12 strips, strip height of 3.8 mm, 1 roll = 90 m							
white		SK 3,8 WH:REEL	0805218	1			
Self-adhesive marker strips, unprinted, continuous, material off the roll, for marking with thermal transfer printer, can be separated using cutter, pitch as desired, strip length of up to 1000 mm, 10 strips, strip height of 5.0 mm, 1 roll = 90 m							
white		SK 5,0 WH:REEL	0805221	1			
Self-adhesive marker strips, unprinted, continuous, material off the roll, for marking with thermal transfer printer, can be separated using cutter, pitch as desired, strip length of up to 1000 mm, 7 strips, strip height of 10 mm, 1 roll = 90 m							
white		SK 10,0 WH:REEL	0812188	1			
Marker card, unprinted, DIN A4 format, pitch as desired, self-adhesive, with 50 perforated marker strips, strip length of 185 mm							
white					SK U/2,8 WH:UNBEDRUCKT	0803883	10
Marker card, unprinted, DIN A4 format, pitch as desired, self-adhesive, with 40 perforated marker strips, strip length of 185 mm							
white					SK U/3,8 WH:UNBEDRUCKT	0803906	10
Marker card, unprinted, DIN A4 format, pitch as desired, self-adhesive, with 35 perforated marker strips, strip length of 185 mm							
white					SK U/5,0 WH:UNBEDRUCKT	0803922	10

## Terminal marking

### UniCard group marking for snapping into CLIPFIX 35-5 end bracket

Can be marked using:



Thermal transfer for sheets and cards



UV LED technology



Direct laser marking



Unmarked or marked according to customer specifications

- Group marking which saves space
- Large marking option
- The markers, which are supplied in uniform sheets, can be marked quickly and easily using the TOPMARK LASER, BLUEMARK..., and THERMOMARK CARD
- The format automatically ensures printing with a high level of positional accuracy
- The markers support multiline marking
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

#### General data

Can be marked using

Material

Inflammability class according to UL 94

Temperature range

Wipe resistance

Components

[°C]

#### Technical data

THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED • TOPMARK LASER  
PC  
V0  
-40 ... 120  
DIN EN 61010-1 (VDE 0411-1)  
Free from silicone and halogen

#### Ordering data

Description	Color
UniCard, can be marked with THERMOMARK CARD and BLUEMARK, 24-section, 8 individual labels per strip, lettering field size: 30 x 5 mm	white yellow

Type	Order No.	Pcs. / Pkt.
UCT-EM (30X5)	0801505	10
UCT-EM (30X5) YE	0830340	10

**End bracket**, for snapping onto NS 35, 5.15 mm wide, can be marked with ZB 5 and UCT-EM (30X5), parking option for bridges and test plugs

**Magazine**, for THERMOMARK CARD ..., for accommodating: UCT-EM (30X5)

#### Accessories

Type	Order No.	Pcs. / Pkt.
CLIPFIX 35-5	3022276	50
THERMOMARK CARD-UCT-MAG10	0801737	1



### Marking of terminal block groups for snapping into tall marker grooves

- Space-saving group marking directly on the terminal block
- Fits all terminal blocks with design width of 3.5 mm and a tall center marker groove
- Large-surface marking with labels or manually using B-STIFT or X-PEN



3.5 mm and 5.2 mm pitch



29 mm pitch

#### General data

Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 120 [°C]
Components	Free from silicone and halogen

#### Technical data

Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 120 [°C]
Components	Free from silicone and halogen

#### Technical data

Material	PA / PC
Inflammability class according to UL 94	V2
Temperature range	-40 ... 100 [°C]
Components	Free from silicone and halogen

#### Ordering data

Type	Order No.	Pcs. / Pkt.
GBS 3,5-25X3,5	0830290	100
GBS 3,5-25X12	0830292	100
GBS 5-25X5	0829126	100
GBS 5-25X12	0810588	100
GBS-ZB/26X6	0809298	50

#### Ordering data

Type	Order No.	Pcs. / Pkt.
GBS-ZB/26X6	0809298	50

#### Description

**Group marking label**, can be snapped into terminal center, can be marked with an EML (24X3)R or EML (25,4X12,7)R... label or manually with B-STIFT or X-PEN, in the foot part with ZB 3,5

**Group marking label**, can be snapped into terminal center, can be marked with an EML (24X4)R or EML (25,4X12,7)R label or manually with B-STIFT or X-PEN, in the foot part with ZB 5, UC-TM 5

**Group marking label**, can be snapped into terminal center, can be marked with ESL 26 x 6 or EMT (25 x 6) R insert strips, in foot part with zack marker strip ZB, length: 29 mm

#### Accessories

Accessories	Order No.	Pcs. / Pkt.
EML (24X3)R	0830291	1
EML (25,4X12,7)R	0816825	1
EML (24X4)R	0800061	1

#### Accessories

Accessories	Order No.	Pcs. / Pkt.
ESL 26X6	0808105	10
EMT (25X6)R	0817264	1

#### Labels for thermal transfer printer

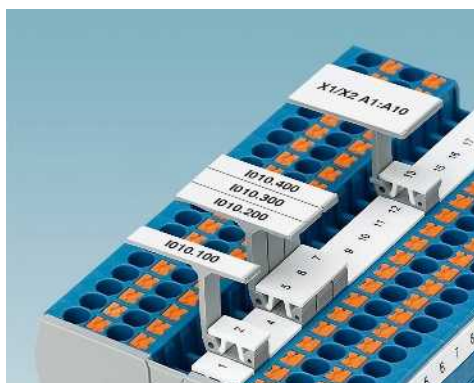
2500 labels per roll	white
2500 labels per roll	white
1000 labels per roll	white

**Insert strip for laser printer**, perforated, for terminal strip marker KLM, marking field: 26 x 6 mm

Lettering field size: 26 x 6 mm white

**Insert labels for thermal transfer printer**, halogen-free

Lettering field size: 25 x 6 mm, 5000 labels per roll white



## Terminal marking

### Marker carrier for STP ... multi-level terminal blocks



#### STP ...

- The marking areas of wired multiple-level terminal blocks are increased in size using the marker carriers
- Depending on version, the marker carriers are placed in the receivers on the upper terminal block level

#### STP ...-ZB

- The marker carriers can for example snap into the center marking groove of ST... spring-cage terminal blocks and double the marking area; see figure below

#### CARRIER-TM 300

- Can be snapped into all terminal blocks in the CLIPLINE complete system that have a lateral flat marker groove
- For accommodating ZB ..., UC-TM ... or UCT-TM ... terminal markers which increases the marking area

#### CARRIER-TMD 300

- Double-row snap-in marker adapter for accommodating two ZB ... or UC-TM ... and UCT-TM ... terminal markers which doubles the marking area



#### General data

Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Components	

#### Technical data

PA
V2
-40 ... 100
Free from silicone and halogen

Description	Color
-------------	-------

**Double marker carrier**, can be snapped into push-in double-level terminal blocks PTTB 1,5/S, can be marked with ZB 3,5 or ZBF 3,5

gray

**Triple marker carrier**, can be snapped into the push-in three-level terminal block PT 1,5/S-3..., can be marked with ZB 3,5 or ZBF 3,5

gray

**Double marker carrier**, can be snapped into the double-level terminal blocks STTB 1,5, PTTB 1,5, can be marked with UC-TM 4, ZB 4 or UC-TMF 4, ZBF 4

gray

**Double marker carrier**, can be snapped into STTB 2,5, STTB 4, PTTB 2,5, PTTB 4 double-level terminal blocks, can be marked with UC-TM 5, ZB 5 or UC-TMF 5, ZBF 5

gray

**Three-compartment marker carrier**, can be snapped into ST 2,5-3... and PT 2,5-3... three-level terminal blocks, can be marked with UC-TMF 5 and ZBF 5 or ...TM 5 and ZB 5

gray

**Double marker carrier**, snaps into double-level fast connection terminal blocks, QTTCB ... and QTTCBS, can be marked with ZB 5 and ZBF 5

gray

**Double marker carrier**, snaps into all terminal blocks with a width of 4.2 mm and a zack marker strip center groove, can be marked with ZB 4 or ZBF 4

gray

**Double marker carrier**, can be snapped into all terminal blocks with a width of 5.2 mm or above and a zack marker strip center groove, can be marked with ZB 5 or ZBF 5

gray

**Marker adapter**, 300 mm long, can be snapped into the lateral groove on modular terminal blocks, designed to accommodate ZB ... or UC-TM ...

gray

**Marker adapter, double row**, 300 mm long, can be snapped into the center groove on modular terminal blocks, designed to accommodate two ZB ... or UC-TM ...

gray

**Marker adapters**, such as the CARRIER-TM 300; marking area at an angle to the top of the terminal block

gray

#### Ordering data

Type	Order No.	Pcs. / Pkt.
STP 3,5-2	0830131	100
STP 3,5-3	0830132	100
STP 4-2	0810575	100
STP 5-2	0800967	100
STP 5-3	0810562	100
STP 5-2/S	0800970	100
STP 4-2-ZB	3038613	100
STP 5-2-ZB	3037643	100
CARRIER-TM 300	0828282	25
CARRIER-TMD 300	0828693	25
CARRIER-TMH 300	0830670	25

WS... warning labels



Warning labels for terminals from the UT ... and ST ... series

- Warning labels and warning covers serve to cover and identify mains terminal blocks
- This prevents accidental actuation of the terminal points
- The warning labels snap into the screw shafts of the relevant terminal
- Can be isolated lengthwise and crosswise

General data	
Material	PA
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)

Technical data	
Material	PA
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)

Description	Color
<b>Warning label, for UT... series</b>	
5.2 mm wide	yellow
6.2 mm wide	yellow
8.2 mm wide	yellow
10.2 mm wide	yellow
12 mm wide	yellow
16 mm wide	yellow
<b>Warning cover, for ST... series</b>	
4.2 mm wide	yellow
5.2 mm wide	yellow
6.2 mm wide	yellow
8.2 mm wide	yellow
10.2 mm wide	yellow

Ordering data		
---------------	--	--

Type	Order No.	Pcs. / Pkt.
WS UT 2,5	3047923	10
WS UT 4	3047332	10
WS UT 6	3047345	10
WS UT 10	3047361	10
WS UT 16	3047374	10
WS UT 35	3047387	10
WST 1,5	3030958	50
WST 2,5	3030941	50
WST 4	3030954	50
WST 6	3030967	10
WST 10/35	3030006	25



## Terminal marking

### Terminal marking for Phoenix Contact



Large terminal block markers for central and side marking

UC-TM 4	UC-TM 5	UC-TM 6	UC-TM 8	UC-TM 10	UC-TM 12	UC-TM 16
see page 56 onwards						
ZB 4	ZB 5	ZB 6	ZB 8	ZB 10	ZB 12	ZB 16
see page 62 onwards						
UCT-TM 4	UCT-TM 5	UCT-TM 6	UCT-TM 8	UCT-TM 10	UCT-TM 12	UCT-TM 16
see page 76 onwards						
TMT 4 R	TMT 5 R	TMT 6 R	TMT 8 R	TMT 10 R	TMT 100 R	TMT 100 R
see page 84 onwards						

	Pitch	4	5	6	8	10	12	16
<b>Screw terminal blocks</b>								
UT 2,5..., UTTB 2,5..., UTN 2,5..., MUT 2,5...	5							
UT 4..., UTTB 4..., UTME(D) 4..., UTN 4..., USST 4...	6							
UT 6..., UTME(D) 6..., UTN 6..., USST 6...	8							
UT 10..., UTN 10..., USST 10...	10							
UT 16..., UTI 16...	12							
UT 35	16							
UK 1,5 N..., USLKG 1,5 N	4							
UK 2,5 N..., USLKG 2,5 N, UK 3 N..., USLKG 3, UKK(B) 3..., UDK 3..., MTK(D)...	5							
UK 5 N..., USLKG 5 N, UDK 4..., UKK(B) 5, UDMTK(B) 5..., UKN 2,5..., UKN 5..., PIK 4..., SSK 0525...	6							
UK 6 N..., USLKG 6 N, UKN 6..., PIK 6..., URTK..., UGSK..., URDK..., UK 6-T..., SSK 110	8							
UK 10 N..., USLKG 10 N, UKKB 10..., UKN 10..., SK 116...	10							
U(I)K 16..., U(I)SLKG 16, UIKN 16...	12							
U(I)K 35..., U(I)SLKG 35, UIKN 35..., SSK 135...	15							
UKH..., USLKG 50/95, USLKG 50/70/95	> 16							
DIK(D) 1,5..., DOK(D) 1,5..., VIOK 1,5..., DLK(B) 2,5..., SLKK 5...	6							
UVKB 4..., UHK 4..., USK 4..., UK 4..., UKK 4..., VBST 4...	6							
UK 5-HESI..., UKK 5-HESI..., UK-SI..., UK 6-FSI..., UK 10-DREHSI...	8							
UK 6,3-HESI..., USIG...	10							
MT 1,5..., MTTB 1,5...	4							
MBK 6..., MSLKG 6	8							
DFK 4...	6							
DFK 5...	9.5							
UW(V) 4...	8							
UW(V) 10.../16.../25...	≥ 10							
HDFK(V) 50..., HDFK(V) 95...	> 18							

The pitch of the terminal block corresponds to the width of the label

The pitch of the terminal block is greater than the width of the label



Small terminal block markers for central and side marking

		UC-TMF 4	UC-TMF 5	UC-TMF 6	UC-TMF 8	UC-TMF 10	UC-TMF 12	UC-TMF 16	US-TMF 100
		see page 58 onwards							81
		ZBF 4	ZBF 5	ZBF 6	ZBF 8	ZBF 10	ZBF 12	ZBF 16	
		see page 70 onwards							
		UCT-TMF 4	UCT-TMF 5	UCT-TMF 6	UCT-TMF 8	UCT-TMF 10	UCT-TMF 12	UCT-TMF 16	
		see page 78 onwards							
		TMT 4 R	TMT 5 R	TMT 6 R	TMT 8 R	TMT 10 R	TMT 100 R	TMT 100 R	
		see page 84 onwards							
Pitch		4	5	6	8	10	12	16	
<b>Screw terminal blocks</b>									
UT 2,5..., UTTB 2,5..., UTN 2,5..., MUT 2,5..., UTI 2,5...	5								
UT 4..., UTTB 4..., UTME(D) 4..., UTN 4..., USST 4...	6								
UT 6..., UTME(D) 6..., UTN 6..., USST 6...	8								
UT 10..., UTN 10..., USST 10...	10								
UT 16..., UTI 16...	12								
UT 35	16								
UK 1,5 N..., USLKG 1,5 N	4								
UK 2,5 N..., USLKG 2,5 N, UK 3 N..., USLKG 3, UKK(B) 3..., UDK 3..., MTK(D)...	5								
UK 5 N..., USLKG 5 N, UDK 4..., UKK(B) 5, UD-MTK(B) 5..., UKN 2,5..., UKN 5..., PIK 4..., SSK 0525	6								
UK 6 N..., USLKG 6 N, UKN 6..., PIK 6..., URTK..., UGSK..., URDK..., UK 6-T, SSK 110	8								
UK 10 N..., USLKG 10 N, UKKB 10..., UKN 10..., SSK 116	10								
U(I)K 16..., U(I)SLKG 16, UIKN 16...	12								
U(I)K 35..., U(I)SLKG 35, UIKN 35..., SSK 135	15								
UKH..., USLKG 50/95, USLKG 50/70/95	> 16								
DIK(D) 1,5..., DOK(D) 1,5..., VIOK 1,5..., DLK(B) 2,5..., SLKK 5...	6								
UVKB 4..., UHK 4..., USK 4..., UK 4..., UKK 4..., VBST 4...	6								
UK 5-HESI..., UKK 5-HESI..., UK-SI..., UK 6-FSI..., UK 10-DREHSI...	8								
UK 6,3-HESI..., UK 10,3 HESI..., USIG...	10								
MT 1,5..., MTTB 1,5...	4								
MBK 6..., MSLKG 6	8								
DFK 4...	6								
DFK 5...	9.5								
UW(V) 4...	8								
UW(V) 10.../16.../25...	≥ 10								
HDFK(V) 50..., HDFK(V) 95...	> 18								

## Terminal marking

### Terminal marking for Phoenix Contact



Large terminal block markers for central marking

	UC-TM 4	UC-TM 5	UC-TM 6		UC-TM 8	UC-TM 10	UC-TM 12	UC-TM 16	
	see page 56 onwards								
ZB 3,5	ZB 4	ZB 5	ZB 6	ZB 7,62	ZB 8	ZB 10	ZB 12	ZB 16	
	see page 62 onwards								
UCT-TM 3,5	UCT-TM 4	UCT-TM 5	UCT-TM 6	UCT-TM 7,62	UCT-TM 8	UCT-TM 10	UCT-TM 12	UCT-TM 16	
	see page 76 onwards								
	TMT 4 R	TMT 5 R	TMT 6 R		TMT 8 R	TMT 10 R	TMT 100 R	TMT 100 R	
	see page 84 onwards								
Pitch	3.5	4	5	6	7.62	8	10	12	16

### Spring-cage terminal blocks

Terminal Block	Pitch	3.5	4	5	6	7.62	8	10	12	16
ST 1,5/S-QUATTRO	3.5	Dark Green								
ST 1,5...	4	Light Green	Dark Green							
ST 2,5... (except ST 2,5-3L)	5	Light Green	Light Green	Dark Green						
ST 4..., STTB 4...	6	Light Green	Light Green	Light Green	Dark Green					
ST 6..., STME(D) 6...	8	Light Green	Light Green	Light Green	Light Green	Light Green	Dark Green			
ST 10...	10	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Dark Green		
ST 16...	12	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Dark Green	
ST 35...	16	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Dark Green
ST 4-HESI (6,3 x 32), ST 4-FSI...	8	Light Green	Light Green	Light Green	Light Green	Light Green	Dark Green			
STU 2,5...	5	Light Green	Light Green	Dark Green						
STU 4..., STTBU 4...	6	Light Green	Light Green	Light Green	Dark Green					
STU 10...	10	Light Green	Light Green	Light Green	Light Green	Light Green	Dark Green			
STU 35...	16	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Dark Green
STS 2,5..., STTBS 2,5...	5	Light Green	Light Green	Dark Green						
STS 4..., STTBS 4...	6	Light Green	Light Green	Light Green	Dark Green					
STS 6...	8	Light Green	Light Green	Light Green	Light Green	Light Green	Dark Green			
STI 2,5..., STN 2,5...	5	Light Green	Light Green	Dark Green						
STI 4..., STN 4...	6	Light Green	Light Green	Light Green	Dark Green					
STI 10..., STN 10...	10	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Dark Green		
STI 16..., STN 16...	12	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Dark Green	
STN 35...	16	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Dark Green
SRTK 6..., SGSK 6..., SRDK 6...	8	Light Green	Light Green	Light Green	Light Green	Light Green	Dark Green			
ZRV...	7.62	Light Green	Light Green	Light Green	Dark Green					
ZRTK..., ZGSK..., ZRDK...	8	Light Green	Light Green	Light Green	Light Green	Light Green	Dark Green			

Dark Green: The pitch of the terminal block corresponds to the width of the label

Light Green: The pitch of the terminal block is greater than the width of the label



Small terminal block markers for central and side marking

	UC-TMF 4	UC-TMF 5	UC-TMF 6	UC-TMF 8	UC-TMF 10	UC-TMF 12	UC-TMF 16	US-TMF 100
	see page 58 onwards							81
ZBF 3,5	ZBF 4	ZBF 5	ZBF 6	ZBF 8	ZBF 10	ZBF 12	ZBF 16	
	see page 70 onwards							
UCT-TMF 3,5	UCT-TMF 4	UCT-TMF 5	UCT-TMF 6	UCT-TMF 8	UCT-TMF 10	UCT-TMF 12	UCT-TMF 16	
	see page 78 onwards							
	TMT 4 R	TMT 5 R	TMT 6 R	TMT 8 R	TMT 10 R	TMT 100 R	TMT 100 R	
	see page 84 onwards							
Pitch	3.5	4	5	6	8	10	12	16

### Spring-cage terminal blocks

Terminal Block	Pitch	3.5	4	5	6	8	10	12	16
ST 1,5/S-QUATTRO	3.5	■							■
ST 1,5..., STTB 1,5...	4	■	■						■
ST 2,5..., STTB 2,5..., ST 2,5-3..., STIO...	5	■	■	■					■
ST 4..., STTB 4...	6	■	■	■	■				■
ST 6..., STME(D) 6...	8	■	■	■	■	■			■
ST 10...	10	■	■	■	■	■	■		■
ST 16...	12	■	■	■	■	■	■	■	■
ST 35...	16	■	■	■	■	■	■	■	■
ST 4-HESI (6,3 x 32), ST 4-FSI...	8	■	■	■	■	■			■
STU 2,5...	5	■	■	■					■
STU 4..., STTBU 4...	6	■	■	■	■				■
STU 10...	10	■	■	■	■	■			■
STU 35...	16	■	■	■	■	■	■	■	■
STS 2,5..., STTBS 2,5...	5	■	■	■					■
STS 4..., STTBS 4...	6	■	■	■	■				■
STS 6...	8	■	■	■	■	■			■
STI 2,5..., STN 2,5...	5	■	■	■					■
STI 4..., STN 4...	6	■	■	■	■				■
STI 10..., STN 10...	10	■	■	■	■	■	■		■
STI 16..., STN 16...	12	■	■	■	■	■	■	■	■
STN 35...	16	■	■	■	■	■	■	■	■
SRTK 6..., SGSK 6..., SRDK 6...	8	■	■	■	■	■			■
ZRV...	7.62	■	■	■	■				■
ZRTK..., ZGSK..., ZRDK...	8	■	■	■	■	■			■
ZFK 6-DREHSI...	12	■	■	■	■	■			■
ZFKK 2,5...	5	■	■	■					■
ZDMTK 2,5...	6	■	■	■	■				■
ZPV...	5	■	■	■					■
MZFKK 1,5...	5	■	■	■					■
MSB(V) 2,5.../ MSDB(V) 2,5...	5/10	■	■	■					■

## Terminal marking

### Terminal marking for Phoenix Contact



Large terminal block markers for central marking

	UC-TM 4	UC-TM 5	UC-TM 6	UC-TM 8	UC-TM 10	UC-TM 12	UC-TM 16	US-TM 100
	see page 56 onwards							81
ZB 3,5	ZB 4	ZB 5	ZB 6	ZB 8	ZB 10	ZB 12	ZB 16	
	see page 62 onwards							
UCT-TM 3,5	UCT-TM 4	UCT-TM 5	UCT-TM 6	UCT-TM 8	UCT-TM 10	UCT-TM 12	UCT-TM 16	
	see page 76 onwards							
	TMT 4 R	TMT 5 R	TMT 6 R	TMT 8 R	TMT 10 R	TMT 100 R	TMT 100 R	
	see page 84 onwards							
Pitch	3.5	4	5	6	8	10	12	16

#### Push-in connection terminal blocks

Terminal Block	Pitch	3.5	4	5	6	8	10	12	16
PT 1,5/S..., PTTB 1,5/S..., PTS 1,5/S..., PTTBS 1,5/S...	3.5	■							■
PT 2,5..., PTTB 2,5..., PTTBS 2,5..., PTI 2,5..., PTN 2,5..., PTS 2,5..., PTU 2,5...	5	■	■	■					■
PT 4..., PTME(D) 4..., PTTB 4..., PTI 4..., PTN 4..., PTU 4...	6	■	■	■	■				■
PT 6..., PTME 6..., PTI 6..., PTN 6...	8	■	■	■	■	■			■
PT 10...	10	■	■	■	■	■	■		■
PT 16...	12	■	■	■	■	■	■	■	■
PTPOWER...	25	■	■	■	■	■	■	■	■

#### Fast connection terminal blocks

Terminal Block	Pitch	3.5	4	5	6	8	10	12	16
QTC(U)(S) 1,5...,	5	■	■	■					
QTC(U)(S) 2,5...,	6	■	■	■	■				

#### Bolt connection terminal blocks

Terminal Block	Pitch	3.5	4	5	6	8	10	12	16
OTTA 2,5...	9	■	■	■	■	■			
OTTA 6...	11	■	■	■	■	■			
OTTA 25...	18	■	■	■	■	■	■		
RT(O) 3..., RBO...	12	■	■	■	■	■	■	■	
RT(O) 5...	16	■	■	■	■	■	■	■	■
RT(O) 8...	20	■	■	■	■	■	■	■	■
HV M.../1, HV M.../2	> 13	■	■	■	■	■	■	■	
UHV 25- UHV 240	> 26	■	■	■	■	■	■	■	■

■ The pitch of the terminal block corresponds to the width of the label

■ The pitch of the terminal block is greater than the width of the label





Small terminal block markers for central and side marking

	UC-TMF 4	UC-TMF 5	UC-TMF 6	UC-TMF 8	UC-TMF 10	UC-TMF 12	UC-TMF 16	US-TMF 100
	see page 58 onwards							81
ZBF 3,5	ZBF 4	ZBF 5	ZBF 6	ZBF 8	ZBF 10	ZBF 12	ZBF 16	
	see page 70 onwards							
UCT-TMF 3,5	UCT-TMF 4	UCT-TMF 5	UCT-TMF 6	UCT-TMF 8	UCT-TMF 10	UCT-TMF 12	UCT-TMF 16	
	see page 78 onwards							
	TMT 4 R	TMT 5 R	TMT 6 R	TMT 8 R	TMT 10 R	TMT 100 R	TMT 100 R	
	see page 84 onwards							
Pitch	3.5	4	5	6	8	10	12	16

**Push-in connection terminal blocks**

PT 1,5/S..., PTTB 1,5/S..., PTIO..., PTS 1,5/S..., PTTBS 1,5/S, MPT 1,5/S...	3.5								
PT 2,5..., PTTB 2,5..., PTTBS 2,5..., PTI 2,5..., PTN 2,5..., PTS 2,5..., PTU 2,5..., MPT 2,5...	5								
PT 4..., PTME(D) 4..., PTTB 4..., PTI 4..., PTN 4..., PTU 4	6								
PT 6..., PTME 6..., PTI 6..., PTN 6...	8								
PT 10...	10								
PT 16...	12								
PTPOWER...	25								

**Fast connection terminal blocks**

QTC(U)(S) 1,5..., QTTCB(U (S) 1,5...	5								
QTC(U)(S) 2,5...	6								

**Bolt connection terminal blocks**

OTTA 2,5...	9								
OTTA 6...	11								
OTTA 25...	18								
RT(O) 3...	12								
RT(O) 5...	16								
RT(O) 8...	20								
HV M.../1, HV M.../2	> 13								
UHV 25- UHV 240	> 26								

**COMBI plugs and couplings**

UPBV 2,5..., SP(V) 2,5..., SP-H 2,5 ..., SP(D)B 2,5..., SC 2,5...	5								
UP 4..., UPBV 4...	5								
SP 4..., SC 4...	6								
PP-H 1,5/S..., PPC 1,5/S...	3.5								
PP-H 2,5..., QP 1,5...	5								
UP 6...	8								
PP-H 4...	6								
PP-H 6..., PPC 6...	8								

## Terminal marking

### UniCard marking for terminal blocks from other manufacturers with tall marker groove

Can be marked using:



UV LED technology



Plotter



Markers for terminal block widths up to 8 mm

- The UC1-TM ... UniCard marking range includes markers for Weidmüller, Conta-Clip, and Klemsan terminal blocks
- The markers, which are supplied in uniform sheets, can be marked quickly and easily using the BLUEMARK
- The multi-section marking strips are easy to fit and can be easily separated if required
- The markers support multiline marking
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

#### Notes:

An overview of terminal blocks that can be marked can be found on page 126 onwards.

#### General data

Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

#### Technical data

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

#### Description

**UniCard**, for marking terminal blocks from other manufacturers, 96-section, 12 individual labels per strip, for a terminal block width of 5 mm

white
red
orange
yellow
blue
green

#### Ordering data

Type	Order No.	Pcs. / Pkt.
UC1-TM 5	0821784	10
UC1-TM 5 RD	0828185	10
UC1-TM 5 OG	0828186	10
UC1-TM 5 YE	0828187	10
UC1-TM 5 BU	0828188	10
UC1-TM 5 GN	0828189	10

**UniCard**, for marking terminal blocks from other manufacturers, offset foot, 96-section, 12 individual labels per strip, for a terminal block width of 5 mm

white
-------

UC1U-TM 5	0821302	10
-----------	---------	----

**UniCard**, for marking terminal blocks from other manufacturers, 80-section, 10 individual labels per strip, for a terminal block width of 6 mm

white
red
orange
yellow
blue
green

UC1-TM 6	0821247	10
UC1-TM 6 RD	0828190	10
UC1-TM 6 OG	0828191	10
UC1-TM 6 YE	0828192	10
UC1-TM 6 BU	0828193	10
UC1-TM 6 GN	0828194	10

**UniCard**, for marking terminal blocks from other manufacturers, 64-section, 8 individual labels per strip, for a terminal block width of 8 mm

white
red
orange
yellow
blue
green

UC1-TM 8	0821739	10
UC1-TM 8 RD	0828195	10
UC1-TM 8 OG	0828196	10
UC1-TM 8 YE	0828197	10
UC1-TM 8 BU	0828198	10
UC1-TM 8 GN	0828199	10

**Magazine**, for CMS-P1-PLOTTER

#### Accessories

P1 UC-MAG 5	5146118	1
-------------	---------	---

**UniCard marking for terminal blocks from other manufacturers with a flat marker groove**



Can be marked using:



UV LED technology



Plotter



Markers for terminal block widths up to 8 mm

- The UC1-TMF ... UniCard marking range includes markers for Weidmüller, Wago, ABB (entrelec), Conta-Clip, and Klemmsan terminal blocks
- The markers, which are supplied in uniform sheets, can be marked quickly and easily using the BLUEMARK
- The multi-section marking strips are easy to fit and can be easily separated if required
- The markers support multiline marking
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

**Notes:**

An overview of terminal blocks that can be marked can be found on page 126 onwards.

**General data**

Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

**Technical data**

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Description	Color
-------------	-------

UniCard, for marking terminal blocks from other manufacturers, 120-section, 15 individual labels per strip, for a terminal block width of 4 mm

- white
- red
- orange
- yellow
- blue
- green

Type	Order No.	Pcs. / Pkt.
------	-----------	-------------

UC1-TMF 4	0821360	10
UC1-TMF 4 RD	0828200	10
UC1-TMF 4 OG	0828201	10
UC1-TMF 4 YE	0828202	10
UC1-TMF 4 BU	0828203	10
UC1-TMF 4 GN	0828204	10

UniCard, for marking terminal blocks from other manufacturers, 96-section, 12 individual labels per strip, for a terminal block width of 5 mm

- white
- red
- orange
- yellow
- blue
- green

UC1-TMF 5	0821425	10
UC1-TMF 5 RD	0828205	10
UC1-TMF 5 OG	0828206	10
UC1-TMF 5 YE	0828127	10
UC1-TMF 5 BU	0828207	10
UC1-TMF 5 GN	0828208	10

UniCard, for marking terminal blocks from other manufacturers, 80-section, 10 individual labels per strip, for a terminal block width of 6 mm

- white
- red
- orange
- yellow
- blue
- green

UC1-TMF 6	0821483	10
UC1-TMF 6 RD	0828209	10
UC1-TMF 6 OG	0828210	10
UC1-TMF 6 YE	0828211	10
UC1-TMF 6 BU	0828212	10
UC1-TMF 6 GN	0828213	10

UniCard, for marking terminal blocks from other manufacturers, 64-section, 8 individual labels per strip, for a terminal block width of 8 mm

- white
- red
- orange
- yellow
- blue
- green

UC1-TMF 8	0821548	10
UC1-TMF 8 RD	0828214	10
UC1-TMF 8 OG	0828215	10
UC1-TMF 8 YE	0828216	10
UC1-TMF 8 BU	0828217	10
UC1-TMF 8 GN	0828218	10

Magazine, for CMS-P1-PLOTTER

**Accessories**

P1 UC-MAG 4	5146105	1
-------------	---------	---

## Terminal marking

### UniCard marking for terminal blocks from other manufacturers with tall marker groove

Can be marked using:



UV LED technology



Plotter



Markers for terminal block widths up to 8 mm

- The UC2-TM ... UniCard marking range includes markers for Wago terminal blocks
- The markers, which are supplied in uniform sheets, can be marked quickly and easily using the BLUEMARK
- The multi-section marking strips are easy to fit and can be easily separated if required
- The markers support multiline marking
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

#### Notes:

An overview of terminal blocks that can be marked can be found on page 126 onwards.

#### General data

Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

#### Technical data

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Description	Color
UniCard, for marking terminal blocks from other manufacturers, 120-section, 15 individual labels per strip, for a terminal block width of 4 mm	white
UniCard, for marking terminal blocks from other manufacturers, 96-section, 12 individual labels per strip, for a terminal block width of 5 mm	white
UniCard, for marking terminal blocks from other manufacturers, 80-section, 10 individual labels per strip, for a terminal block width of 6 mm	white
UniCard, for marking terminal blocks from other manufacturers, 64-section, 8 individual labels per strip, for a terminal block width of 8 mm	white

#### Ordering data

Type	Order No.	Pcs. / Pkt.
UC2-TM 4	0821713	10
UC2-TM 5	0821690	10
UC2-TM 6	0821674	10
UC2-TM 8	0821755	10

#### Magazine, for CMS-P1-PLOTTER

#### Accessories

P1 UC-MAG 5	5146118	1
-------------	---------	---

**UniCard marking for terminal blocks from other manufacturers with a flat marker groove**



Can be marked using:



UV LED technology



Plotter

PRINTED  
FOR YOU



Markers for terminal block widths up to 8 mm

- The UC2F-TM ... UniCard marking range includes markers for ABB (entrelec) terminal blocks
- The markers, which are supplied in uniform sheets, can be marked quickly and easily using the BLUEMARK
- The multi-section marking strips are easy to fit and can be easily separated if required
- The markers support multiline marking
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

**Notes:**  
An overview of terminal blocks that can be marked can be found on page 126 onwards.

General data	
Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data	
BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER	
PA	
V2	
-40 ... 120	
DIN EN 61010-1 (VDE 0411-1)	
Free from silicone and halogen	

Description	Color
UniCard, for marking terminal blocks from other manufacturers, 120-section, 15 individual labels per strip, for a terminal block width of 4 mm	white
UniCard, for marking terminal blocks from other manufacturers, 96-section, 12 individual labels per strip, for a terminal block width of 5 mm	white
UniCard, for marking terminal blocks from other manufacturers, 80-section, 10 individual labels per strip, for a terminal block width of 6 mm	white
UniCard, for marking terminal blocks from other manufacturers, 64-section, 8 individual labels per strip, for a terminal block width of 8 mm	white

Ordering data		
Type	Order No.	Pcs. / Pkt.
UC2F-TM 4	0822178	10
UC2F-TM 5	0822181	10
UC2F-TM 6	0822194	10
UC2F-TM 8	0822204	10

Accessories	
Magazine, for CMS-P1-PLOTTER	

P1 UC-MAG 4	5146105	1
-------------	---------	---

## Terminal marking

### UniCard marking for terminal blocks from other manufacturers with tall marker groove

Can be marked using:



UV LED technology



Plotter



Markers for terminal block widths up to 8 mm



- The UC3-TM ... UniCard marking range includes markers for Wieland and Legrand terminal blocks
- The markers, which are supplied in uniform sheets, can be marked quickly and easily using the BLUEMARK
- The multi-section marking strips are easy to fit and can be easily separated if required
- The markers support multiline marking
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

#### Notes:

An overview of terminal blocks that can be marked can be found on page 126 onwards.

#### General data

Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

#### Technical data

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Description	Color
UniCard, for marking terminal blocks from other manufacturers, 96-section, 12 individual labels per strip, for a terminal block width of 5 mm	white
UniCard, for marking terminal blocks from other manufacturers, 80-section, 10 individual labels per strip, for a terminal block width of 6 mm	white
UniCard, for marking terminal blocks from other manufacturers, 64-section, 8 individual labels per strip, for a terminal block width of 8 mm	white

#### Ordering data

Type	Order No.	Pcs. / Pkt.
UC3-TM 5	0822369	10
UC3-TM 6	0822385	10
UC3-TM 8	0822408	10

#### Magazine, for CMS-P1-PLOTTER

#### Accessories

P1 UC-MAG 1	5146079	1
-------------	---------	---

### UniCard marking for terminal blocks from other manufacturers with tall marker groove

- The UCT1-TM ... UniCard marking range includes markers for Weidmüller, Conta-Clip, and Klemmsan terminal blocks
- The UCT1-TMF ... UniCard marking range includes markers for Weidmüller, Wago, ABB (entrelec), Contaclip, and Klemmsan terminal blocks
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

PRINTED  
FOR YOU



Markers for a terminal block width of 5/6 mm

PRINTED  
FOR YOU



Flat marker for a terminal block width of 5/6 mm

#### Notes:

An overview of terminal blocks that can be marked can be found on page 126 onwards.

#### General data

Can be marked using

Material  
Inflammability class according to UL 94  
Temperature range [°C]  
Wipe resistance  
Components

#### Technical data

THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED

PC  
V0  
-40 ... 120  
DIN EN 61010-1 (VDE 0411-1)  
Free from silicone and halogen

#### Technical data

THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED

PC  
V0  
-40 ... 120  
DIN EN 61010-1 (VDE 0411-1)  
Free from silicone and halogen

#### Ordering data

Description

Color

Type

Order No.

Pcs. / Pkt.

UniCard, for marking terminal blocks from other manufacturers, 72-section, 12 individual labels per strip, for a terminal block width of 5 mm

white UCT1-TM 5  
red UCT1-TM 5 RD  
orange UCT1-TM 5 OG  
yellow UCT1-TM 5 YE  
blue UCT1-TM 5 BU  
green UCT1-TM 5 GN

0829482  
0829226  
0829227  
0829228  
0829229  
0829230

10  
10  
10  
10  
10  
10

UniCard, for marking terminal blocks from other manufacturers such as UCT1-TM 5, but with offset foot

white UCT1U-TM 5

0803204

10

UniCard, for marking terminal blocks from other manufacturers, 60-section, 10 individual labels per strip, for a terminal block width of 6 mm

white UCT1-TM 6  
red UCT1-TM 6 RD  
orange UCT1-TM 6 OG  
yellow UCT1-TM 6 YE  
blue UCT1-TM 6 BU  
green UCT1-TM 6 GN

0829483  
0829232  
0829233  
0829234  
0829235  
0829236

10  
10  
10  
10  
10  
10

UniCard, for marking terminal blocks from other manufacturers, 72-section, 12 individual labels per strip, for a terminal block width of 5 mm

white UCT1-TMF 5  
red UCT1-TMF 5 RD  
orange UCT1-TMF 5 OG  
yellow UCT1-TMF 5 YE  
blue UCT1-TMF 5 BU  
green UCT1-TMF 5 GN

0829237  
0829238  
0829239  
0829240  
0829241  
0829242

10  
10  
10  
10  
10  
10

UniCard, for marking terminal blocks from other manufacturers, 60-section, 10 individual labels per strip, for a terminal block width of 6 mm

white UCT1-TMF 6  
red UCT1-TMF 6 RD  
orange UCT1-TMF 6 OG  
yellow UCT1-TMF 6 YE  
blue UCT1-TMF 6 BU  
green UCT1-TMF 6 GN

0829243  
0829244  
0829245  
0829246  
0829247  
0829248

10  
10  
10  
10  
10  
10

#### Accessories

Magazine, for THERMOMARK CARD ... for accommodating: UCT-TM ..., UCT1-TM ..., UCT5-TM ..., UCT-EM (5X10), UCT-EM (6X10)

Plastic magazine, for THERMOMARK CARD ..., for accommodating: UCT1-TMF...

THERMOMARK CARD-UCT-MAG1

5146480

1

#### Accessories

THERMOMARK CARD-UCT-MAG4

5146614

1

## Terminal marking

### UniCard marking for terminal blocks from other manufacturers with tall marker groove

- The UCT2-TM 5/6 UniCard markers are suitable for Wago terminal blocks
- The UCT3-TM ... UniCard marking range includes markers for Wieland and Legrand terminal blocks

#### Notes:

An overview of terminal blocks that can be marked can be found on page 126 onwards.

PRINTED  
FOR YOU



Markers for terminal block widths of 5 to 6 mm

PRINTED  
FOR YOU



Markers for terminal block widths of 5 to 6 mm

General data		Technical data			Technical data		
Can be marked using		THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED • TOPMARK LASER			THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED • TOPMARK LASER		
Material		PC			PC		
Inflammability class according to UL 94		V0			V0		
Temperature range		-40 ... 120			-40 ... 120		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)			DIN EN 61010-1 (VDE 0411-1)		
Components		Free from silicone and halogen			Free from silicone and halogen		
		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
<b>UniCard</b> , for marking terminal blocks from other manufacturers, 72-section, 12 individual labels per strip, for terminal block widths of 5 and 6 mm	white	UCT2-TM 5/6	0829249	10			
<b>UniCard</b> , for marking terminal blocks from other manufacturers, 72-section, 12 individual labels per strip, for a terminal block width of 5 mm	white				UCT3-TM 5	0829251	10
<b>UniCard</b> , for marking terminal blocks from other manufacturers, 60-section, 10 individual labels per strip, for a terminal block width of 6 mm	white				UCT3-TM 6	0829252	10
		Accessories			Accessories		
Plastic magazine, for THERMOMARK CARD ..., for accommodating: UCT2-TM ...		THERMOMARK CARD-UCT-MAG5	5146615	1			
Magazine, for THERMOMARK CARD ..., for accommodating: UCT3-TM ...					THERMOMARK CARD-UCT-MAG6	5146616	1



**UniCard marking for terminal blocks from other manufacturers with tall marker groove**

Can be marked using:



Thermal transfer for sheets and cards



UV LED technology



Direct laser marking



Markers for terminal block widths of 5/6 mm



- The UCT5-TM ... UniCard marking range includes markers for Cabur terminal blocks
- The markers, which are supplied in uniform sheets, can be marked quickly, easily, and precisely using the TOPMARK LASER, BLUEMARK..., and the THERMOMARK CARD
- The multi-section marking strips are easy to fit and can be easily separated if required
- The markers support multiline marking
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

**General data**

Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Description	Color
UniCard, for marking terminal blocks from other manufacturers, 66-section, 11 individual labels per strip, for a terminal block width of 5 mm	white
UniCard, for marking terminal blocks from other manufacturers, 54-section, 9 individual labels per strip, for a terminal block width of 6 mm	white

Magazine, for THERMOMARK CARD ... for accommodating UCT6M-TM ...

**Technical data**

THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED • TOPMARK LASER  
 PC  
 V0  
 -40 ... 120  
 DIN EN 61010-1 (VDE 0411-1)  
 Free from silicone and halogen

**Ordering data**

Type	Order No.	Pcs. / Pkt.
UCT5-TM 5	0828750	10
UCT5-TM 6	0828752	10

**Accessories**

THERMOMARK CARD-UCT-MAG23	0830808	1
---------------------------	---------	---

**Notes:**

An overview of terminal blocks that can be marked can be found on page 126 onwards.

## Terminal marking

### UniCard marking for terminal blocks from other manufacturers with a flat marker groove



Can be marked using:



Thermal transfer for sheets and cards



UV LED technology



Direct laser marking



Markers for terminal block widths up to 8.2 mm

- The UniCard UCT6M ... marking range includes markers for ABB terminal blocks
- The markers, which are supplied in uniform sheets, can be marked quickly, precisely, and easily.
- The multi-section marking strips are easy to fit and can be easily separated if required
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

#### Notes:

An overview of terminal blocks that can be marked can be found on page 126 onwards.

#### General data

Can be marked using

Material

Inflammability class according to UL 94

Temperature range

Wipe resistance

Components

[°C]

#### Technical data

THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED • TOPMARK LASER

PC

V0

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

free from silicone, halogen, and cadmium

#### Ordering data

Description	Color
UniCard, for marking terminal blocks from other manufacturers, 72-section, 12 individual labels per strip, for a terminal block width of 5.2 mm	white
UniCard, for marking terminal blocks from other manufacturers, 60-section, 10 individual labels per strip, for a terminal block width of 6.2 mm	white
UniCard, for marking terminal blocks from other manufacturers, 42-section, 7 individual labels per strip, for a terminal block width of 8.2 mm	white

Type	Order No.	Pcs. / Pkt.
UCT6M-TM 5	0830756	10
UCT6M-TM 6	0830757	10
UCT6M-TM 8	0830758	10

#### Accessories

Magazine, for THERMOMARK CARD ... for accommodating UCT6M-TM ...
--

THERMOMARK CARD-UCT-MAG23	0830808	1
---------------------------	---------	---

**UniCard marking for terminal blocks from other manufacturers with tall marker groove**



Can be marked using:



Thermal transfer for sheets and cards



UV LED technology



Direct laser marking



Markers for terminal block widths up to 8.2 mm

- The UniCard UCT6R-TM ... marking range includes markers for entrelec terminal blocks
- The markers, which are supplied in uniform sheets, can be marked quickly, precisely, and easily.
- The multi-section marking strips are easy to fit and can be easily separated if required
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

**Notes:**

An overview of terminal blocks that can be marked can be found on page 126 onwards.

**General data**

Can be marked using

Material

Inflammability class according to UL 94

Temperature range

[°C]

Wipe resistance

Components

Description

Color

UniCard, for marking terminal blocks from other manufacturers, 72-section, 12 individual labels per strip, for a terminal block width of 5.2 mm

white

UniCard, for marking terminal blocks from other manufacturers, 60-section, 10 individual labels per strip, for a terminal block width of 6.2 mm

white

UniCard, for marking terminal blocks from other manufacturers, 42-section, 7 individual labels per strip, for a terminal block width of 8.2 mm

white

Magazine, for THERMOMARK CARD ... for accommodating UCT6R-TM ...

**Technical data**

THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED • TOPMARK LASER

PC

V0

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

free from silicone, halogen, and cadmium

**Ordering data**

Type	Order No.	Pcs. / Pkt.
UCT6R-TM 5	0830753	10
UCT6R-TM 6	0830754	10
UCT6R-TM 8	0830755	10

**Accessories**

THERMOMARK CARD-UCT-MAG24	0830809	1
---------------------------	---------	---

## Terminal marking

### UniSheet marking for terminals from other manufacturers

Can be marked using:



Thermal transfer for sheets and cards



12 strips with a strip width of 104 mm

- The US2-TM 100 UniSheet markers are suitable for Wago terminal blocks
- The markers, which are supplied as uniform cards, can be printed onto quickly, easily, and cost-effectively using the THERMOMARK CARD
- The perforated marking strips are easy to separate and can be easily fitted
- The cards provide space for including function texts
- Marking service: Phoenix Contact can custom-mark all UniSheet markers in accordance with your requirements

**Notes:**  
An overview of terminal blocks that can be marked can be found on page 126 onwards.

General data	
Can be marked using	
Number of individual labels	12
Number of individual labels per strip	1
Material	PVC
Inflammability class according to UL 94	V0
Temperature range	-30 ... 80 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Silicone-free

Technical data		
THERMOMARK CARD		
12		
1		
PVC		
V0		
-30 ... 80		
DIN EN 61010-1 (VDE 0411-1)		
Silicone-free		

Description	Color
UniSheet, for marking terminal blocks from other manufacturers with a Wago TopJob S terminal block groove, strip length of 104 mm	white

Ordering data		
Type	Order No.	Pcs. / Pkt.
US2-TM 100	0829268	10

Accessories		
Magazine, for THERMOMARK CARD..., for accommodating all US-materials	5146451	1

Accessories		
Type	Order No.	Pcs. / Pkt.
THERMOMARK CARD-US-MAG1	5146451	1

**Marker strips, continuous, for terminal blocks from other manufacturers**

- The TMT2 . . . markers are suitable for Wago terminal blocks
- The marker strips are automatically perforated and cut to the desired length
- The markers in the form of continuous rolls can be printed quickly, easily, and precisely with the THERMOMARK ROLL... printers

Can be marked using:



Thermal transfer for rolls



Marker with strip height of 10.8 mm, continuous

**Notes:**

An overview of terminal blocks that can be marked can be found on page 126 onwards.

**General data**

Can be marked using	
Number of individual labels	
Number of individual labels per strip	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

**Technical data**

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.2
1
1
PVC
V0
-30 ... 80
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and cadmium

**Ordering data**

Description	Color	Type	Order No.	Pcs. / Pkt.
UniSheet, for marking terminal blocks from other manufacturers with a Wago TopJob S terminal block groove, strip height of 10.8 mm, continuous				
Strip height: 10.8 mm	white	TMT2 (EX11)R	0802683	1

## Terminal marking

**UM marking for terminals from other manufacturers, strips**

Can be marked using:

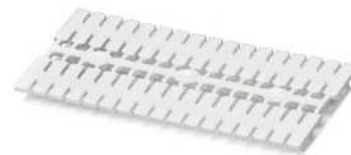
new



Thermal transfer for sheets and cards



UV LED technology



For a tall marker groove with a pitch of 3.5 to 6 mm

- The universal UM1-TM ... material marking range includes markers for Weidmüller, Conta-Clip, and Klemmsan
- The markers, which are supplied in double strips, can be quickly and easily marked with BLUEMARK ... and THERMOMARK CARD ...
- The markers support multiline marking
- The marking strips are easy to fit and can be easily separated if required
- The marking strips are snapped into the magazine in a twist-proof manner by means of a coding pin and fed to the output devices
- The format automatically ensures printing with a high level of positional accuracy

General data	
Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data	
THERMOMARK CARD • BLUEMARK CLED	
PC	
V2	
-40 ... 120	
DIN EN 61010-1 (VDE 0411-1)	
free from silicone, halogen, and cadmium	

Description	Color
<b>UM1-TM ...</b> , for marking terminal blocks from other manufacturers, Weidmüller, Conta-Clip, Klemmsan, unprinted, 34-section, pitch: 3.5 mm, label height: 12 mm	white
	red
	orange
	yellow
	blue
	green
<b>UM1-TM ...</b> , for marking terminal blocks from other manufacturers, Weidmüller, Conta-Clip, Klemmsan, unprinted, 24-section, pitch: 5 mm, label height: 10 mm	white
	red
	orange
	yellow
	blue
	green
<b>UM1-TM ...</b> , for marking terminal blocks from other manufacturers, Weidmüller, Conta-Clip, Klemmsan, unprinted, 24-section, pitch: 5 mm, label height: 12 mm	white
	red
	orange
	yellow
	blue
	green
<b>UM1-TM ...</b> , for marking terminal blocks from other manufacturers, Weidmüller, Conta-Clip, Klemmsan, unprinted, 20-section, pitch: 6 mm, label height: 10 mm	white
	red
	orange
	yellow
	blue
	green

Ordering data			
Type	Order No.	Pcs. / Pkt.	
UM1-TM (3,5X12)	0830925	10	
UM1-TM (3,5X12) RD	0833020	10	
UM1-TM (3,5X12) OG	0833021	10	
UM1-TM (3,5X12) YE	0833022	10	
UM1-TM (3,5X12) BU	0833023	10	
UM1-TM (3,5X12) GN	0833024	10	
UM1-TM (5X10)	0830905	10	
UM1-TM (5X10) RD	0833025	10	
UM1-TM (5X10) OG	0833026	10	
UM1-TM (5X10) YE	0833027	10	
UM1-TM (5X10) BU	0833028	10	
UM1-TM (5X10) GN	0833029	10	
UM1-TM (5X12)	0830912	10	
UM1-TM (5X12) RD	0833035	10	
UM1-TM (5X12) OG	0833036	10	
UM1-TM (5X12) YE	0833037	10	
UM1-TM (5X12) BU	0833038	10	
UM1-TM (5X12) GN	0833039	10	
UM1-TM (6X10)	0830903	10	
UM1-TM (6X10) RD	0833040	10	
UM1-TM (6X10) OG	0833041	10	
UM1-TM (6X10) YE	0833042	10	
UM1-TM (6X10) BU	0833043	10	
UM1-TM (6X10) GN	0833044	10	

Accessories	
<b>Magazine</b> , for THERMOMARK CARD ... For accommodating UM1-TM ..., UM5-TM...	
<b>Magazine for the BLUEMARK printer</b> , for accommodating UM materials	

Accessories		
Type	Order No.	Pcs. / Pkt.
TMP-UM-MAG1	0831200	1
BLUEMARK MAG UM-TM	0803335	1

**UM marking for terminals from other manufacturers, strips**

new



For a tall marker groove with a pitch of 6 to 12 mm

General data		Technical data		
Can be marked using		THERMOMARK CARD • BLUEMARK CLED		
Material		PC		
Inflammability class according to UL 94		V2		
Temperature range	[°C]	-40 ... 120		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)		
Components		free from silicone, halogen, and cadmium		
Description		Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.
<b>UM1-TM ...</b> , for marking terminal blocks from other manufacturers, Weidmüller, Conta-Clip, Klemsan, unprinted, 20-section, pitch: 6 mm, label height: 12 mm	white	UM1-TM (6X12)	0830909	10
	red	UM1-TM (6X12) RD	0833050	10
	orange	UM1-TM (6X12) OG	0833051	10
	yellow	UM1-TM (6X12) YE	0833052	10
	blue	UM1-TM (6X12) BU	0833053	10
	green	UM1-TM (6X12) GN	0833054	10
<b>UM1-TM ...</b> , for marking terminal blocks from other manufacturers, Weidmüller, Conta-Clip, Klemsan, unprinted, 14-section, pitch: 8 mm, label height: 10 mm	white	UM1-TM (8X10)	0830906	10
	red	UM1-TM (8X10) RD	0833055	10
	orange	UM1-TM (8X10) OG	0833056	10
	yellow	UM1-TM (8X10) YE	0833057	10
	blue	UM1-TM (8X10) BU	0833058	10
	green	UM1-TM (8X10) GN	0833059	10
<b>UM1-TM ...</b> , for marking terminal blocks from other manufacturers, Weidmüller, Conta-Clip, Klemsan, unprinted, 14-section, pitch: 8 mm, label height: 12 mm	white	UM1-TM (8X12)	0830920	10
	red	UM1-TM (8X12) RD	0833060	10
	orange	UM1-TM (8X12) OG	0833061	10
	yellow	UM1-TM (8X12) YE	0833062	10
	blue	UM1-TM (8X12) BU	0833063	10
	green	UM1-TM (8X12) GN	0833064	10
<b>UM1-TM ...</b> , for marking terminal blocks from other manufacturers, Weidmüller, Conta-Clip, Klemsan, unprinted, 10-section, pitch: 12 mm, label height: 10 mm	white	UM1-TM (12X10)	0830916	10
	red	UM1-TM (12X10) RD	0833065	10
	orange	UM1-TM (12X10) OG	0833066	10
	yellow	UM1-TM (12X10) YE	0833067	10
	blue	UM1-TM (12X10) BU	0833068	10
	green	UM1-TM (12X10) GN	0833069	10
Magazine, for THERMOMARK CARD ...		Accessories		
For accommodating UM1-TM ..., UM5-TM...		TMP-UM-MAG1	0831200	1
Magazine for the BLUEMARK printer, for accommodating UM materials		BLUEMARK MAG UM-TM	0803335	1

## Terminal marking

**UM marking for terminals from other manufacturers, strips**

Can be marked using:

new



Thermal transfer for sheets and cards



UV LED technology



For a tall marker groove, with an offset foot, up to a pitch of 6 mm

- The universal UM1-TM ... material marking range includes markers for Weidmüller, Conta-Clip, and Klemсан
- The markers, which are supplied in double strips, can be quickly and easily marked with BLUEMARK ... and THERMOMARK CARD ...
- The markers support multiline marking
- The marking strips are easy to fit and can be easily separated if required
- The marking strips are snapped into the magazine in a twist-proof manner by means of a coding pin and fed to the output devices
- The format automatically ensures printing with a high level of positional accuracy

### General data

Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

### Technical data

THERMOMARK CARD • BLUEMARK CLED
PC
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
free from silicone, halogen, and cadmium

Description	Color
<b>UM1U-TM ...</b> , for marking terminal blocks from other manufacturers, Weidmüller, Conta-Clip, Klemсан, with an offset foot, unprinted, 24-section, pitch: 5 mm	white red orange yellow blue green
<b>UM1U-TM ...</b> , for marking terminal blocks from other manufacturers such as Weidmüller, CONTA-CLIP, Klemсан, with an offset foot, unprinted, 20-section, pitch: 6 mm	white red orange yellow blue green

### Ordering data

Type	Order No.	Pcs. / Pkt.
UM1U-TM (5X10)	0830910	10
UM1U-TM (5X10) RD	0833030	10
UM1U-TM (5X10) OG	0833031	10
UM1U-TM (5X10) YE	0833032	10
UM1U-TM (5X10) BU	0833033	10
UM1U-TM (5X10) GN	0833034	10
UM1U-TM (6X10)	0830907	10
UM1U-TM (6X10) RD	0833045	10
UM1U-TM (6X10) OG	0833046	10
UM1U-TM (6X10) YE	0833047	10
UM1U-TM (6X10) BU	0833048	10
UM1U-TM (6X10) GN	0833049	10

### Magazine for THERMOMARK CARD

For accommodating UM1U-TM ...

**Magazine for the BLUEMARK printer**, for accommodating UM materials

### Accessories

TMP-UM-MAG4	0831203	1
BLUEMARK MAG UM-TM	0803335	1



### UM marking for terminals from other manufacturers, strips

Can be marked using:



Thermal transfer for sheets and cards



UV LED technology



For a flat marker groove up to a pitch of 8 mm

- The universal UM1-TM ... material marking range includes markers for Weidmüller, Conta-Clip, Klemsan, Wago, and ABB (Entrelec) terminal blocks
- The markers, which are supplied in double strips, can be quickly and easily marked with BLUEMARK ... and THERMOMARK CARD ...
- The markers support multiline marking
- The marking strips are easy to fit and can be easily separated if required
- The marking strips are snapped into the magazine in a twist-proof manner by means of a coding pin and fed to the output devices
- The format automatically ensures printing with a high degree of positioning accuracy

#### General data

Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

#### Technical data

THERMOMARK CARD • BLUEMARK CLED
PC
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
free from silicone, halogen, and cadmium

Description	Color
-------------	-------

**UM1-TMF ...**, for marking terminal blocks from other manufacturers, Weidmüller, Conta-Clip, Klemsan, Wago, ABB (Entrelec), unprinted, 34-section, pitch: 3.5 mm

- white
- red
- orange
- yellow
- blue
- green

#### Ordering data

Type	Order No.	Pcs. / Pkt.
<b>UM1-TMF (3,5X5)</b>	0830935	10
<b>UM1-TMF (3,5X5) RD</b>	0833000	10
<b>UM1-TMF (3,5X5) OG</b>	0833001	10
<b>UM1-TMF (3,5X5) YE</b>	0833002	10
<b>UM1-TMF (3,5X5) BU</b>	0833003	10
<b>UM1-TMF (3,5X5) GN</b>	0833004	10
<b>UM1-TMF ...</b> , for marking terminal blocks from other manufacturers, Weidmüller, Conta-Clip, Klemsan, Wago, ABB (Entrelec), unprinted, 24-section, pitch: 5 mm		
<b>UM1-TMF (5X5)</b>	0830902	10
<b>UM1-TMF (5X5) RD</b>	0833005	10
<b>UM1-TMF (5X5) OG</b>	0833006	10
<b>UM1-TMF (5X5) YE</b>	0833007	10
<b>UM1-TMF (5X5) BU</b>	0833008	10
<b>UM1-TMF (5X5) GN</b>	0833009	10
<b>UM1-TMF ...</b> , for marking terminal blocks from other manufacturers, Weidmüller, Conta-Clip, Klemsan, Wago, ABB (Entrelec), unprinted, 20-section, pitch: 6 mm		
<b>UM1-TMF (6X5)</b>	0830904	10
<b>UM1-TMF (6X5) RD</b>	0833010	10
<b>UM1-TMF (6X5) OG</b>	0833011	10
<b>UM1-TMF (6X5) YE</b>	0833012	10
<b>UM1-TMF (6X5) BU</b>	0833013	10
<b>UM1-TMF (6X5) GN</b>	0833014	10
<b>UM1-TMF ...</b> , for marking terminal blocks from other manufacturers, Weidmüller, Conta-Clip, Klemsan, Wago, ABB (Entrelec), unprinted, 14-section, pitch: 8 mm		
<b>UM1-TMF (8X5)</b>	0830924	10
<b>UM1-TMF (8X5) RD</b>	0833015	10
<b>UM1-TMF (8X5) OG</b>	0833016	10
<b>UM1-TMF (8X5) YE</b>	0833017	10
<b>UM1-TMF (8X5) BU</b>	0833018	10
<b>UM1-TMF (8X5) GN</b>	0833019	10

<b>Magazine</b> for THERMOMARK CARD
For accommodating UM1-TMF ...
<b>Magazine for the BLUEMARK printer</b> , for accommodating UM materials

#### Accessories

<b>TMP-UM-MAG3</b>	0831202	1
<b>BLUEMARK MAG UM-TM</b>	0803335	1

## Terminal marking

### UM marking for terminals from other manufacturers, strips

Can be marked using:

new



Thermal transfer for sheets and cards



UV LED technology



For a tall marker groove up to a pitch of 6 mm

- The universal UM...-TM... material marking range includes markers for terminal blocks from a variety of manufacturers. UM2... for Wago, UM3... for Wieland, UM5... for Cabur, and UM6M... for ABB
- The markers, which are supplied in double strips, can be quickly and easily marked with BLUEMARK... and THERMOMARK CARD
- The markers support multiline marking
- The marking strips are easy to fit and can be easily separated if required
- The marking strips are snapped into the magazine in a twist-proof manner by means of a coding pin and fed to the output devices
- The format automatically ensures printing with a high degree of positioning accuracy

#### General data

Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

#### Technical data

THERMOMARK CARD • BLUEMARK CLED
PC
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
free from silicone, halogen, and cadmium

Description	Color
<b>UM2-TM...</b> for marking Wago terminal blocks, unprinted, 34/28/24-section, pitch: 3.5 to 6 mm	white white white
<b>UM3-TM...</b> for marking Wieland terminal blocks, unprinted, 24/20/14-section, pitch: 5 to 8 mm	white white white
<b>UM5-TM...</b> for marking Cabur terminal blocks, unprinted, 28/24/20-section, pitch: 4 to 6 mm	white white white
<b>UM6M-TM...</b> for marking ABB terminal blocks, unprinted, 24/20/14-section, pitch: 5 to 8 mm	white white white

#### Ordering data

Type	Order No.	Pcs. / Pkt.
<b>UM2-TM (3,5X10)</b>	0830936	10
<b>UM2-TM (4X10)</b>	0830934	10
<b>UM2-TM (5/6X10)</b>	0830911	10

#### Magazine, for THERMOMARK CARD ...

- For accommodating UM1-TM ..., UM5-TM...
- For accommodating UM2-TM...
- For accommodating UM3-TM...
- For accommodating UM6M-TM...

**Magazine for the BLUEMARK printer**, for accommodating UM materials

#### Accessories

<b>TMP-UM-MAG5</b>	0803328	1
<b>BLUEMARK MAG UM-TM</b>	0803335	1

new

new

new



For a tall marker groove up to a pitch of 8 mm

For a tall marker groove up to a pitch of 6 mm

For a tall marker groove up to a pitch of 8 mm

Technical data
THERMOMARK CARD • BLUEMARK CLED
PC
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
free from silicone, halogen, and cadmium

Technical data
THERMOMARK CARD • BLUEMARK CLED
PC
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
free from silicone, halogen, and cadmium

Technical data
THERMOMARK CARD • BLUEMARK CLED
PC
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
free from silicone, halogen, and cadmium

Ordering data		
Type	Order No.	Pcs. / Pkt.
UM3-TM (5X8)	0830917	10
UM3-TM (6X8)	0830915	10
UM3-TM (8X8)	0830929	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
UM5-TM (4X10)	0830938	10
UM5-TM (5X10)	0830922	10
UM5-TM (6X10)	0830919	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
UM6M-TM (5X12)	0830928	10
UM6M-TM (6X12)	0830926	10
UM6M-TM (8X12)	0830939	10

Accessories		
Type	Order No.	Pcs. / Pkt.
TMP-UM-MAG6	0803329	1
BLUEMARK MAG UM-TM	0803335	1

Accessories		
Type	Order No.	Pcs. / Pkt.
TMP-UM-MAG1	0831200	1
BLUEMARK MAG UM-TM	0803335	1

Accessories		
Type	Order No.	Pcs. / Pkt.
TMP-UM-MAG7	0803330	1
BLUEMARK MAG UM-TM	0803335	1

## Terminal marking

### UM marking for terminals from other manufacturers, strips

Can be marked using:

new



Thermal transfer for sheets and cards



UV LED technology



For a tall marker groove up to a pitch of 8 mm

- The universal UM...-TM... material marking range includes markers for terminal blocks from a variety of manufacturers. UM6R... for Entelec, UM7... for Legrand, and UM8... for Woertz
- The markers, which are supplied in double strips, can be quickly and easily marked with BLUEMARK... and THERMOMARK CARD
- The markers support multiline marking
- The marking strips are easy to fit and can be easily separated if required
- The marking strips are snapped into the magazine in a twist-proof manner by means of a coding pin and fed to the output devices
- The format automatically ensures printing with a high level of positional accuracy

#### General data

Can be marked using	
Number of individual labels	
Number of individual labels per strip	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

#### Technical data

THERMOMARK CARD • BLUEMARK CLED
24
12
PC
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
free from silicone, halogen, and cadmium

Description	Color
UM6R-TM... for marking Entelec terminal blocks, unprinted, 24/20/18-section, pitch: 5 to 8 mm	white white white
UM7-TM... for marking Legrand terminal blocks, unprinted, 24/20/18-section, pitch: 5 to 8 mm	white white white
UM8-TM... for marking Woertz terminal blocks, unprinted, 24/20-section, pitch: 5 to 6 mm	white white

#### Ordering data

Type	Order No.	Pcs. / Pkt.
UM6R-TM (5X10)	0830923	10
UM6R-TM (6X10)	0830921	10
UM6R-TM (8X10)	0830932	10

#### Magazine for THERMOMARK CARD

- For accommodating UM7-TM...
- For accommodating UM6R-TM...
- For accommodating UM8-TM...

Magazine for the BLUEMARK printer, for accommodating UM materials

#### Accessories

TMP-UM-MAG8	0803331	1
BLUEMARK MAG UM-TM	0803335	1

new

new



For a tall marker groove up to a pitch of 8 mm

For a tall marker groove up to a pitch of 6 mm

Technical data
THERMOMARK CARD • BLUEMARK CLED
24
12
PC
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
free from silicone, halogen, and cadmium

Technical data
THERMOMARK CARD • BLUEMARK CLED
24
12
PC
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
free from silicone, halogen, and cadmium

Ordering data		
Type	Order No.	Pcs. / Pkt.
UM7-TM (5X10)	0830933	10
UM7-TM (6X10)	0830931	10
UM7-TM (8X10)	0830945	10




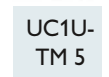
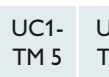


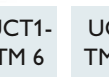

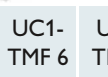


Ordering data		
Type	Order No.	Pcs. / Pkt.
UM8-TM (5X9)	0830946	10
UM8-TM (6X9)	0830943	10

Accessories		
TMP-UM-MAG10	0803334	1
BLUEMARK MAG UM-TM	0803335	1

Accessories		
TMP-UM-MAG9	0803332	1
BLUEMARK MAG UM-TM	0803335	1


## Terminal marking







### Terminal marking for Weidmüller

													
UniCard, white		0821302	0821784	0821247	0821739	0829482	0829483	0821360	0821425	0821483	0821548	0829237	0829243
	Pitch	5	5	6	8	5	6	4	5	6	8	5	6
<b>Screw connection terminal blocks</b>													
AKZ 1,5/AKZ 2,5	5	■						■	■			■	
AKZ 4/AKE 4	6							■	■	■		■	■
DLD(A)2,5.../MAK 2,5/VLI 2,5	6							■	■	■		■	■
SAK 10/16/35/95//EK 10/16/35	5							■	■			■	
SAK 2,5/4//EK 2,5/4	6							■	■	■		■	■
SAKS.../SAK 6//EK 6	8							■	■	■	■	■	■
WDK 2,5/4...	5	■						■	■			■	
WDL 2,5...	6		■	■		■	■	■	■	■		■	■
WDT...	5		■			■		■	■			■	
WDU (WPE) 1,5/2,5...	5		■			■		■	■			■	
WDU (WPE) 4...	6		■	■		■	■	■	■	■		■	■
WDU (WPE) 6-240...	8		■	■	■	■	■	■	■	■	■	■	■
WF...	8		■	■	■	■	■	■	■	■	■	■	■
WFF...	6		■	■		■	■	■	■	■		■	■
WNT 2,5	5		■			■		■	■			■	
WNT 4	6		■	■		■	■	■	■	■		■	■
WNT 6-WNT 70N	8		■	■	■	■	■	■	■	■	■	■	■
WSI 4	6		■	■		■	■	■	■	■		■	
WSI 6	6		■	■		■	■	■	■	■		■	■
WTL 4/6	6		■	■		■	■	■	■	■		■	■
WTR 2,5...	5		■			■		■	■			■	
WTR 4...	6		■	■		■	■	■	■	■		■	■

■ The pitch of the terminal block corresponds to the width of the label

■ The pitch of the terminal block is greater than the width of the label



													
		UC1U-TM 5	UC1-TM 5	UC1-TM 6	UC1-TM 8	UCT1-TM 5	UCT1-TM 6	UC1-TMF 4	UC1-TMF 5	UC1-TMF 6	UC1-TMF 8	UCT1-TMF 5	UCT1-TMF 6
<b>UniCard, white</b>		0821302	0821784	0821247	0821739	0829482	0829483	0821360	0821425	0821483	0821548	0829237	0829243
	Pitch	5	5	6	8	5	6	4	5	6	8	5	6

**Spring-cage connection terminal blocks**

ZDK 2,5 (PE).../ZDLD 2,5.../ZMAK 2,5	5												
ZDK 4 (PE)...	6												
ZDK 6/S	8												
ZDL 2,5/S.../ZDL 4/S...	5												
ZDT 2,5 (PE).../ZT (PE) 2,5.../ZP 2,5...	5												
ZDU (ZPE) 10...-ZDU (ZPE) 35/ZEI 16...	5												
ZDU (ZPE) 2,5...	5												
ZDU (ZPE) 4...	6												
ZDU (ZPE) 6.../ZEI 6	8												
ZNT 2,5/10/16/35...	5												
ZNT 4	6												
ZNT 6	8												
ZPV 1,5.../ZIA 1,5.../ZVL 1,5...	5												
ZSI 2,5.../ZSI 6...	5												
ZSI 6-2/FC	6												
ZT (PE) 4.../ZP 4...	6												
ZTD 6/ZTL 6	6												
ZTR 2,5.../ZDTR 2,5.../ZDL 2,5...	5												

**IDC terminal blocks**


IDU (IPE 1,5) N.../ITR 1,5 N.../IDK 1,5 N(PE)...	5												
IDU (IPE) 2,5 N.../ITR 2,5 N...	6												
IT 1,5.../IEK 1,5 N (PE).../IAK 1,5 N.../IIK 1,5 N...	5												

**Push-in connection terminal blocks**


PDL 4...	5												
PDU (PPE) 2,5/4.../PDK 2,5/4 (PE)...	5												
PDU (PPE) 6/10.../PDU (PPE) 16.../PEI 16...	8												
PNT 2,5/4	5												
PNT 6/10/16	8												

## Terminal marking

### Terminal marking for Wieland

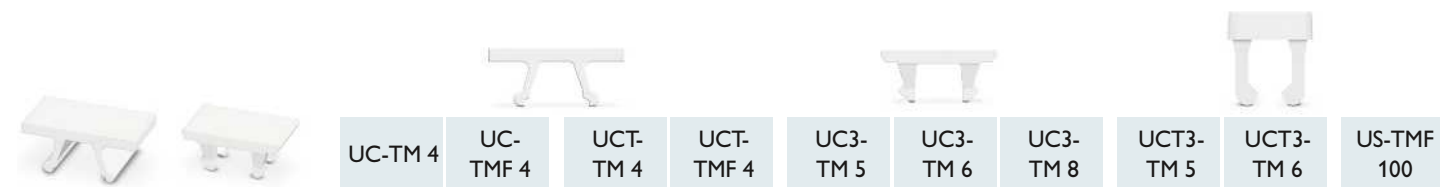


		UC3-TM 5	UC3-TM 6	UC3-TM 8	UCT3-TM 5	UCT3-TM 6
<b>UniCard, white</b>		0822369	0822385	0822408	0829251	0829252
	Pitch	5	6	8	5	6
<b>Screw connection terminal blocks</b>						
9700 A/5...	5					
9700 A/6...	6					
9700 A/8...	8					
9700 A/10...	10					
9700 A/12...	12					
9700 A/16...	16					
9700 A/6 ETK...	6					
9700 A/8 ETK...	8					
9700 A/10 ETK...	10					
WK(M) 2,5...	5					
WK 4..., WKI 4..., WKM 4...	6					
WK 6...	8					
WKN 10..., WKI 10...	10					
WKN 16..., WKI 16...	12					
WKN 35..., WKI 35...	16					
WKN 70...	24					
WKN 70...	28					
9785 U/..., 9786 U/...	12					

 The pitch of the terminal block corresponds to the width of the label

 The pitch of the terminal block is greater than the width of the label





	UC-TM 4	UC-TMF 4	UCT-TM 4	UCT-TMF 4	UC3-TM 5	UC3-TM 6	UC3-TM 8	UCT3-TM 5	UCT3-TM 6	US-TMF 100
<b>UniCard, white</b>	0818111	0818166	0828732	0828742	0822369	0822385	0822408	0829251	0829252	0829260
Pitch	4	4	4	4	5	6	8	5	6	

**Spring-cage connection terminal blocks**







WKF 1,5...	4									
WKF 1,5 KOI..., WKF 1,5 KOA...	5									
WK(I)F 2,5..., WKFN 2,5...	5									
WKF 4..., WKFN 4...	6									
WKF 6...	8									
WKF 10...	10									
WK(I)F 16...	12									
WKF 35...	16									

**Fast connection terminal blocks**


WKC 1...	5									
WKC 2,5...	6									
WKF 16...WKC	12									





## Terminal marking

### Terminal marking for Conta-Clip

		 			 							
		UC1-TM 5	UC1-TM 6	UC1-TM 8	UCT1-TM 5	UCT1-TM 6	UC1-TMF 4	UC1-TMF 5	UC1-TMF 6	UC1-TMF 8	UCT1-TMF 5	UCT1-TMF 6
<b>UniCard, white</b>		0821784	0821247	0821739	0829482	0829483	0821360	0821425	0821483	0821548	0829237	0829243
Pitch		5	6	8	5	6	4	5	6	8	5	6
<b>Spring-cage connection terminal blocks</b>												
Z(S)RK 2,5..., ZSL 2,5...	5											
ZRK 4..., ZSL 4...	6											
ZRK (ZSL) 6..., ZRK (ZSL) 10..., ZRK (ZSL) 16...	8											
ZRKD 2,5..., ZSLD 2,5...	5											
ZIKD 2,5..., ZVMAK 2,5...	5											
ZTRK 2,5...	5											
ZIZA 1,5...	5											
ZS...	5											
<b>Push-in connection terminal blocks</b>												
FRK 1,5.../FSL 1,5...	4											
FRK 2,5.../FSL 2,5...	5											
FRK 4.../FSL 2,5...	6											
FRKD 2,5.../FSLD 2,5...	5											
FDLIS 2,5...	5											
FTRK 2,5...	5											
HSK...	8											

 The pitch of the terminal block corresponds to the width of the label

 The pitch of the terminal block is greater than the width of the label

												
		UC1-TM 5	UC1-TM 6	UC1-TM 8	UCT1-TM 5	UCT1-TM 6	UC1-TMF 4	UC1-TMF 5	UC1-TMF 6	UC1-TMF 8	UCT1-TMF 5	UCT1-TMF 6
<b>UniCard, white</b>		0821784	0821247	0821739	0829482	0829483	0821360	0821425	0821483	0821548	0829237	0829243
Pitch		5	6	8	5	6	4	5	6	8	5	6
<b>Screw connection terminal blocks</b>												
RK 1,5-4...	6											
RK 2,5...	5											
RK 2,5-4...	6											
RK 6-10.../16.../35...	8											
RK 50...-RK 240...	8											
SL...	5											
RKD 2,5...	5											
RKD 4...	6											
DLI 2,5..., VMAK 2,5...	6											
IK (D) 2,5...	5											
TRK 1,5...	5											
TK.../STK...	8											
PTK...	8											
SIK 10...	8											
STK...	6											
SK...	8											
TSK 2,5	5											
FF.../SF...	6											
DLIS.../DLI...	6											
NT...	6											
RKA 2,5...	5											
RKA 4...	6											
RKA 10...	8											
RKB 4...	5											
KBL 2,5...	5											
KBL 2,5-4...	6											
KBL 6-10...	8											

## Terminal marking

Terminal marking for ABB (Entrelec)



		UCT6M-TM 5	UCT6M-TM 6	UCT6M-TM 8
<b>UniCard, white</b>		0830756	0830757	0830758
	Pitch	5	6	8
<b>SNK series</b>				
ZS4...	5.2			
ZS6...	6			
ZS10...	8			
ZS16...	10			
ZS35...	16			
ZS70...	22			
ZS95...	26			
ZS4-S-R...	6			
ZS4-S-R3...	8			
ZS4-S-T2-R...	6			
ZS4-SP-R...	6			
ZS4-SP-T2-R...	6			
ZS4-SF...	6			
ZS4-SF1...	8			
BAM3	10			
CS-R1	3			
TCS5...	5.2			
Pg5...	5.2			

 The pitch of the terminal block corresponds to the width of the label

 The pitch of the terminal block is greater than the width of the label



	UC2F-TM 5 UCT6R-TM 5	UC2F-TM 6 UCT6R-TM 6	UC2F-TM 8 UCT6R-TM 8	UC1-TMF 4	UC1-TMF 5	UC1-TMF 6
<b>UniCard, white</b>	0822187 0830753	0822194 0830754	0822204 0830755	0821360	0821425	0821483
Pitch	5	6	8	4	5	6

**Screw connection terminal blocks**

M(A) 2,5/5...	5					
M 4/6...	6					
M 6/8	8					
M 10/10, M 16/12, M 35/16, M 70/22, M 95/22	8					
D 150/31..., D 240/36...	8					
D 4/6 NTLP	6					
MA 2,5/5.NT	5					
M 4/6.NT	6					
M 6/8.NT	8					
M 10/10.NT, M 16/12.NT, M 35/16.	8					

**Spring-cage connection terminal blocks**

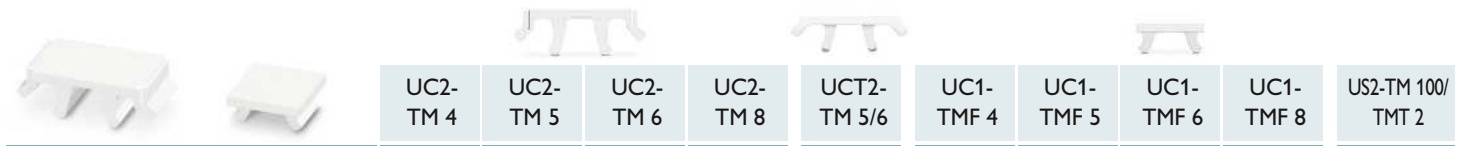
D 1,5/4... 2 L, D 1,5/4.../4 L	4					
D 2,5/5... 2 L, D 2,5/5... 3 L, D 2,5/5... 4 L	5					
D 4/6... 2 L, D 4/6... 3 L, D 4/6... 4 L	6					
D 6/8... 2 L	8					
D 10/10... 2 L, D 16/12... 2 L, D 35/16... 2 L	8					
D 2,5/5.NT.L	5					
D 4/6.NT.L	6					
D 6/8.NL.L	8					
D 10/10.NZ.L., D 16/12.NT.L, D 35/16NT.L.	8					
D 2,5/5.N...	5					

**IDC terminal blocks**

D 1,5... ADO	5					
D 1,5/6... ADO	6					
D 2,5/8... ADO, D 4/8... ADO	8					
D 1,5/6.NT.ADO	6					
D 2,5/8.NT.ADO	8					
D 2,5/5... ADO	5					
D 4/6... ADO	6					
D 6/8... ADO, D 6/8.ADO3	8					

## Terminal marking

### Terminal marking for Wago




		UC2-TM 4	UC2-TM 5	UC2-TM 6	UC2-TM 8	UCT2-TM 5/6	UC1-TMF 4	UC1-TMF 5	UC1-TMF 6	UC1-TMF 8	US2-TM 100/TMT 2
<b>UniCard, white</b>		0821713	0821690	0821674	0821755	0829249	0821360	0821425	0821483	0821548	0829268/ 0802683
	Pitch	4	5	6	8	5/6	4	5	6	8	
<b>Spring-cage connection terminal blocks</b>											
2001...	4	■									■
2002..., 2003...	5	■	■			■	■	■			■
2004..., 2005..., 2006...	6	■	■	■		■	■	■	■		■
2010..., 2016...	8	■	■	■	■		■	■	■	■	■
261..., 264...	6						■	■	■		
270...	5						■	■			
279...	4	■									
280...	5	■	■			■					
280-8...	5						■	■			
281...	6	■	■	■		■					
282..., 283..., 284...	8	■	■	■	■						
285..., 290...	5	■	■			■					
727...	6	■	■	■							
769...	5						■	■			
775..., 776..., 777...	6	■	■	■							
780...	5	■	■			■					
781...	6	■	■	■							
782..., 783..., 784..., 785...	8	■	■	■	■						
869..., 870..., 880...	5	■	■			■	■	■			


■ The pitch of the terminal block corresponds to the width of the label

■ The pitch of the terminal block is greater than the width of the label

Terminal marking for Cabur





		UCT5-TM 5	UCT5-TM 6
<b>UniCard, white</b>		0828750	0828752
	Pitch	5	6
<b>Screw connection terminal blocks</b>			
CBD.2	5.5		
CBD.4	6.5		
CBD.6	8		
CBD.10	10		
CBD.16	12		
CBD.35	16		
CBD.50	18		
CBD.70	20.5		
AFO.2/1+2, AFO.2/2+2	6.5		
CBC.2	5		
CBC.4	6		
CBC.6	8		
CBC.16	12		
CBC.35	16		
GPA.70	20.5		
GPA.95	26		
GPA.150	31		
GPA.240	37		
TE.6	8		
TE.10	10		
TE.16	12		
TE.35	16		
TED.4	6.5		
TEO.2	5.5		
TEO.4	6.5		
TEC.6	8		
TEC.10	10		
TEC.16	12		
TEC.35	16		
TEC.70	20.5		
CBE.2, CBR.2, CVF.2	5		
CVF.4, DAS.4	6		
DBC.2	5		



		UCT5-TM 5	UCT5-TM 6
<b>UniCard, white</b>		0828750	0828752
	Pitch	5	6
<b>Screw connection terminal blocks</b>			
DSFA.4, DSS.4	6		
EDM.2, TC/DIN, TC/PO	5.5		
EDM.4, FDP.2, FFS.4, FVS.4	6.5		
EDM.6	8		
EDM.10, SFR.6	10		
EDM.16, FPC.10, FPL.10	12		
EDM.25	16		
EDM.35	18.5		
EDM.70	21		
MPFA.4, MPS.4, RP.4	6		
MPS.2/SV, MPS.2/SW, MPS.2/SWP	5.5		
PDF.2, SCB.4	6.5		
RN.2, TR.2	5		
TR.4	7.3		
SCB.6, SFO.4, SFR.4, SV.6	8		
SV.2	5.5		
SV.4	7		
SV.10	10.5		
TDE.2, TLD.2, TLE.2, TLS.2	6.2		
VPC.2, VPD.2	5.08		

<b>Spring-cage connection terminal blocks</b>			
HCD.1	5.08		

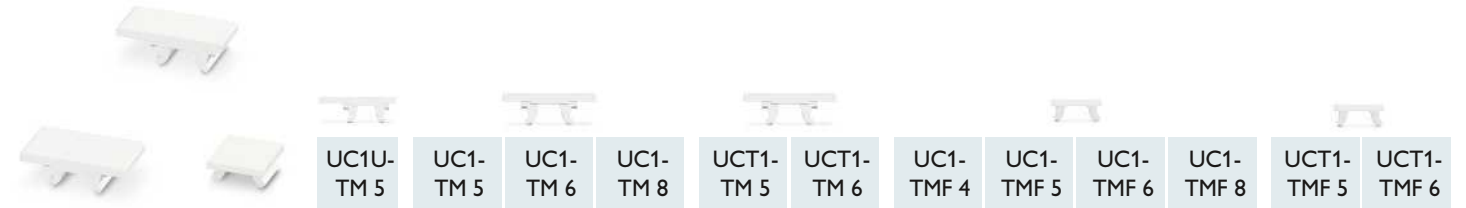
<b>Push-in connection terminal blocks</b>			
NCS, NCV	6.2		

 The pitch of the terminal block corresponds to the width of the label  The pitch of the terminal block is greater than the width of the label

# Marking and labeling - MARKING system

## Terminal marking

### Terminal marking for Klemsan



	UC1U-TM 5	UC1-TM 5	UC1-TM 6	UC1-TM 8	UCT1-TM 5	UCT1-TM 6	UC1-TMF 4	UC1-TMF 5	UC1-TMF 6	UC1-TMF 8	UCT1-TMF 5	UCT1-TMF 6
<b>UniCard, white</b>	0821302	0821784	0821247	0821739	0829482	0829483	0821360	0821425	0821483	0821548	0829237	0829243
Pitch	5	5	6	8	5	6	4	5	6	8	5	6

### Screw connection terminal blocks

AVK 2,5/PEK 2,5 K/WGT 2,5	5											
AVK 4.../AVK 2,5/4T/PEK 2,5/PEK 4/WGT 4	6											
AVK 6-240/ PEK 6-35	8											
AVK 6/10T16/35T// WGT 6/WGT 10	8											
PIK 2,5...	5											
PIK 4...	6											
PIK 3...	6											
ASK 2	8											
ASK 3	6											
ASK 4/AVK 4 FS	8											
ASK 4S/ASK 4 LD	6											
WGO...	8											
AYK 4...	6											
AYK 10...	8											
MVK 2,5 (T)	5											
MVK 4 (T)	6											

### Spring-cage connection terminal blocks

YBK 2,5 (T)	5											
YBK 4 (T)	6											
YBK 6 (T) YBK 10 (T)	8											
MYK 2,5 (T).../MYP- PK 2,5...	5											
YBK 2,5 F.../YBK 3...	5											
YBK 4...	6											
YBK S.../YBK I...	8											
YBK 2,5 A.../YBK 2,5 E.../YB K 2,5C...	5											
PCY 2,5...	5											

 The pitch of the terminal block corresponds to the width of the label

 The pitch of the terminal block is greater than the width of the label



Terminal marking for Legrand



		UC3-TM 5	UC3-TM 6	UC3-TM 8
<b>UniCard, white</b>		0822369	0822385	0822408
	Pitch	5	6	8


Screw connection terminal blocks, Viking 2				
39060	5			
39061-39068	6			
39070	6			
39077	5			
39078, 39080, 39082	6			
39084, 39085	6			
39300	5			
39301-39305	6			
39307	6			
39370	5			
39371, 39372, 39374	6			
39376, 39378	6			


Spring-cage connection terminal blocks, Viking 3				
39601, 39602	5			
39604	6			
39605	8			
39606, 39607	8			
39608	6			
39627	5			
39628, 39636	6			
39611, 39612	5			
39614	6			
39615	8			
39616, 39617	8			
39618, 39646	6			
39621	5			
39624	6			
39625	8			
39626, 39629	8			
39622	5			
39630, 39666	6			

## Terminal marking

### Terminal marking for Weidmüller

	Pitch	UM1-TMF				UM1...-TM									
		3.5x5	5x5	6x5	8x5	3.5x12	5x10	U 5x10	5x12	6x10	U 6x10	6x12	8x10	8x12	12x10
<b>UniCard, white</b>		0830935	0830902	0830904	0830924	0830925	0830905	0830910	0830912	0830903	0830907	0830909	0830906	0830920	0830916
<b>Push-in connection terminal blocks</b>															
PDK 2,5	5.1														
PDL 4	5.1														
PDU 2,5	5.1														
PDU 6/10	8.1														
PDU 16	12.1														
PEI 16	15														
PMAK 4	5.1														
PNT 2,5	5.1														
PNT 6/10	8.1														
PNT 16	12.1														
PPE 2,5	5.1														
PPE 6	8.1														
PPE 16	12.1														
PSI 6/10	12.2														
PTD 6/10	8.1														
PTL 6/10	8.1														
PTR 2,5	5.1														

 Pitch of Phoenix Contact marking material equal to Weidmüller pitch

 Pitch of Phoenix Contact marking material smaller than Weidmüller pitch

	UM1-TMF				UM1...-TM									
	3.5x5	5x5	6x5	8x5	3.5x12	5x10	U 5x10	5x12	6x10	U 6x10	6x12	8x10	8x12	12x10
<b>UniCard, white</b>	0830935	0830902	0830904	0830924	0830925	0830905	0830910	0830912	0830903	0830907	0830909	0830906	0830920	0830916

Pitch

**Spring-cage connection terminal blocks**

Terminal Block	Pitch	3.5x5	5x5	6x5	8x5	3.5x12	5x10	U 5x10	5x12	6x10	U 6x10	6x12	8x10	8x12	12x10
ZDK 1,5	3.5	■													
ZDK 2,5	5.1		■						■						
ZDK 4	6.1			■											
ZDKPE 2,5	5.1		■				■	■							
ZDLD 2,5	5.1		■						■						
ZDT 2,5	5.1		■												
ZDTR 2,5	5.1		■												
ZDU 1,5	3.5	■				■									
ZDU 2,5	5.1		■				■	■							
ZDU 4	6.1			■									■		
ZDU 6	8.1				■								■		
ZDU 10	10.1		■						■						
ZDU 16	12.1		■						■						
ZDU 35	16		■						■						
ZDUA 2,5	5.1		■				■	■							
ZDUB 2,5	5.1		■				■	■							
ZEI16	10				■								■		
ZEI 16-2	14		■						■						
ZIA 1,5	5.08		■												
ZMAK 2,5	5.1		■						■						
ZNT 4	6.1			■						■	■				
ZNT 6	8.1				■					■	■				
ZNT 16	10		■												
ZNT 35	16		■												
ZP 2,5	5.1		■				■	■							
ZP 4	6.1		■												
ZPE 1,5	3.5	■				■									
ZPE 2,5	5.1		■				■	■							
ZPE 4	6.1			■									■		
ZPE 6	8.1				■								■		
ZPE 10	10.1		■										■		
ZPE 16	12.1		■						■						

## Terminal marking

### Terminal marking for Weidmüller

	UM1-TMF				UM1...-TM									
	3.5x5	5x5	6x5	8x5	3.5x12	5x10	U 5x10	5x12	6x10	U 6x10	6x12	8x10	8x12	12x10
<b>UniCard, white</b>	0830935	0830902	0830904	0830924	0830925	0830905	0830910	0830912	0830903	0830907	0830909	0830906	0830920	0830916

Pitch

### Spring-cage connection terminal blocks

Terminal Block	Pitch	3.5x5	5x5	6x5	8x5	3.5x12	5x10	U 5x10	5x12	6x10	U 6x10	6x12	8x10	8x12	12x10
ZPE 35	16		■						■						
ZPEA 2,5	5.1		■				■	■							
ZPEB 2,5	5.1		■				■	■							
ZPV 1,5	5.1		■						■						
ZRV 1.5	5.1		■												
ZRV 2.5	5.2		■						■						
ZSI 2x6	16		■												
ZSI 2,5	7.9		■				■	■							
ZSI 6	12.2		■				■	■							
ZT 2,5	5.1		■				■	■							
ZT 4	6.5			■						■	■				
ZTC 2,5	5.1		■				■	■							
ZTCPE 2,5	5.1		■				■	■							
ZTD 6	8				■							■			
ZTL 6	8				■							■			
ZTPE 2,5	5.1		■				■	■							
ZTPE 4	6.5			■						■	■				
ZTR 2,5	5.1		■				■	■							
ZTR 6	8.1				■							■			
ZTTR 2,5	5.1		■												
ZVL 1,5	5.08		■												
ZVLD 2,5	5.1		■												

■ Pitch of Phoenix Contact marking material equal to Weidmüller pitch

■ Pitch of Phoenix Contact marking material smaller than Weidmüller pitch

	UM1-TMF				UM1...-TM									
	3.5x5	5x5	6x5	8x5	3.5x12	5x10	U 5x10	5x12	6x10	U 6x10	6x12	8x10	8x12	12x10
<b>UniCard, white</b>	0830935	0830902	0830904	0830924	0830925	0830905	0830910	0830912	0830903	0830907	0830909	0830906	0830920	0830916

Pitch

### Screw connection terminal blocks


AKE 2,5	5.1													
AKE 4	7													
AKZ 1,5	5.1													
AKZ 2,5	5.1													
AKZ 4	6.1													
DLA 2,5	6.1													
DLD 2,5	6.1													
KDKS 1	8													
MAK 2,5	6.2													
SAKS 2	27.6													
SAKS 4	24													
SAKS 5	28													
VLI 1,5	6.15													
WDK 1,5/R	3.5													
WDK 2,5	5.1													
WDK 4	6.1													
WDK 10	9.9													
WDKL 4	6.5													
WDL 2,5	6.1													
WDT 1,5	6.4													
WDTR 2,5	6.2													
WDU 1,5	5.1													
WDU 1,5/R	3.5													
WDU 2,5	5.1													
WDU 2,5/TC	10.2													
WDU 4	6.1													
WDU 6	7.9													
WDU 10	9.9													
WDU 16	11.9													
WDU 35	16													
WDU 50	18.5													
WDU 70	20.5													
WDU 95	27													

## Terminal marking

### Terminal marking for Weidmüller

	Pitch	UM1-TMF				UM1...-TM									
		3.5x5	5x5	6x5	8x5	3.5x12	5x10	U 5x10	5x12	6x10	U 6x10	6x12	8x10	8x12	12x10
<b>UniCard, white</b>		0830935	0830902	0830904	0830924	0830925	0830905	0830910	0830912	0830903	0830907	0830909	0830906	0830920	0830916
<b>Screw connection terminal blocks</b>															
WDU 120	32														
WDU 240	36														
WMF 2,5	5.08														
WNT 2,5	5.1														
WNT 4	6.1														
WNT 6	7.9														
WNT 10	9.9														
WNT 16	12														
WNT 35	16														
WNT 70	20.5														
WPE 1,5	5.1														
WPE 1,5/R	3.5														
WPE 2,5	5.1														
WPE 4	6.1														
WPE 6	7.9														
WPE 10	9.9														
WPE 16	11.9														
WPE 35	16														
WPE 50	18.5														
WPE 70	20.5														
WPE 95	27														
WPE 120	32														
WPO 4	6														
WSI 4	9.1														
WSI 6	7.9														
WT 4	6.1														
WTD 6	7.9														
WTD 6/4 FF	11														
WTL 4	6.1														
WTL 4/2	6														

 Pitch of Phoenix Contact marking material equal to Weidmüller pitch

 Pitch of Phoenix Contact marking material smaller than Weidmüller pitch

UniCard, white	UM1-TMF				UM1...-TM									
	3.5x5	5x5	6x5	8x5	3.5x12	5x10	U 5x10	5x12	6x10	U 6x10	6x12	8x10	8x12	12x10
	0830935	0830902	0830904	0830924	0830925	0830905	0830910	0830912	0830903	0830907	0830909	0830906	0830920	0830916

Pitch

**Screw connection terminal blocks**

WTL 6	7.9													
WTL 6 SL	7.9													
WTL 6/4 FF	11													
WTQ 6	7.9													
WTR 2,5	5.1													
WTR 4	6.1													
WTR 35	32													
WTR 4 SL	6.1													
WTR 4/SI	6.1													

**Bolt connection terminal blocks**

WF 5	13													
WF 6	17.8 8													
WF 8	22.8													
WF 10	33.8													
WF 12	33.8													
WF 6/2 BZ	17.8													
WF 8/2 BZ	22.8													
WF 10/2 BZ	33.8													
WFF 35	27													
WFF 70	32													
WFF 120	38													
WFF 185	55													
WFF 300	55													

## Terminal marking

### Terminal marking for CONTA-CLIP

	UM1-TMF				UM1...TM									
	3.5x5	5x5	6x5	8x5	3.5x12	5x10	U 5x10	5x12	6x10	U 6x10	6x12	8x10	8x12	12x10
<b>UniCard, white</b>	0830935	0830902	0830904	0830924	0830925	0830905	0830910	0830912	0830903	0830907	0830909	0830906	0830920	0830916

Pitch


### Pressure spring connection terminal blocks

FDLI 2,5	5.1													
FDLIS 2,5	5.1													
FDLIS B 2,5	15.3													
FNT 2,5	5.1													
FNT 6	8.1													
FRK 1,5	4.1													
FRK 2,5	5.1													
FRK 4	6.1													
FRKD 2,5	5.1													
FRKI 2,5	5.1													
FRKI 6	8.1													
FSIK 4	6.1													
FSL 1,5	4.1													
FSL 2,5	5.1													
FSL 4	6.1													
FSLD 2,5	5.1													
FSLI 2,5	5.1													
FSLI 6	8.1													
FTRK 2,5	5.1													

### Bolt connection terminal blocks

HSK 16	13													
HSK 35	16													
HSK 50	21													
HSK 70	40													
HSK 95	40													
HSK 120	32													
HSK 150	50													
HSK 240	50													

 Pitch of Phoenix Contact marking material equal to Conta Clip pitch

 Pitch of Phoenix Contact marking material smaller than Conta Clip pitch



	UM1-TMF				UM1...-TM									
	3.5x5	5x5	6x5	8x5	3.5x12	5x10	U 5x10	5x12	6x10	U 6x10	6x12	8x10	8x12	12x10
<b>UniCard, white</b>	0830935	0830902	0830904	0830924	0830925	0830905	0830910	0830912	0830903	0830907	0830909	0830906	0830920	0830916

Pitch

**Spring-cage connection terminal blocks**

SL 4	6.1																	
ZIKD 2,5	5.1																	
ZIZA 1,5	5.1																	
ZMP 1,5	5.1																	
ZRK 2,5	5.1																	
ZRK 4	6.1																	
ZRK 6	8.1																	
ZRK 10	10.1																	
ZRK 16	12.1																	
ZRKD 2,5	5.1																	
ZRKS 2,5	5.1																	
ZSL 2,5	5.1																	
ZSL 4	6.1																	
ZSL 6	8.1																	
ZSL 10	10.1																	
ZSL 16	12.1																	
ZSLD 2,5	5.1																	
ZSLN 2,5	5.1																	
ZSLS 2,5	5.1																	
ZSRK 2,5	5.1																	
ZST 2,5	5.1																	
ZSTK 2,5	5.1																	
ZTRK 2,5	5.1																	
ZVMAK 2,5	5.1																	

## Terminal marking

### Terminal marking for CONTA-CLIP

	UM1-TMF				UM1...TM									
	3.5x5	5x5	6x5	8x5	3.5x12	5x10	U 5x10	5x12	6x10	U 6x10	6x12	8x10	8x12	12x10
<b>UniCard, white</b>	0830935	0830902	0830904	0830924	0830925	0830905	0830910	0830912	0830903	0830907	0830909	0830906	0830920	0830916

Pitch

### Screw connection terminal blocks

BKA 2,5	5		■													
BKA 4	6			■												
BKA 10	8				■											
DLI 2,5	6			■												
DLIS 2,5	6			■												
FF 1/15	6			■												
FF 2,5	6			■					■	■	■					
IK 2,5	5		■													
IKD 2,5	5		■													
KBL 2,5	5		■			■	■	■								
KBL 2,5-4	6			■					■	■	■					
KBL 6	8				■								■	■		
NT 2,5	6			■					■	■	■					
NT 6	8				■								■	■		
PTK 10	8				■								■	■		
RK 1,5	6			■												
RK 2,5	5		■				■	■	■							
RK 2,5-4	6			■					■	■	■					
RK 6	8				■											■
RK 16	12				■											■
RK 35	16				■											■
RK 50	20				■											■
RK 95	25				■											■
RK 150	31				■											■
RK 240	36				■											■
RKB 4	6			■												
RKD 2,5	5		■													
RKD 4	6			■												
RKDG 4	6			■					■	■	■					
SF 2.5	6			■					■	■	■					
SIK 10 PA	8				■								■	■		
SIK 10 Z	10				■								■	■		

■ Pitch of Phoenix Contact marking material equal to CONTA-CLIP pitch

■ Pitch of Phoenix Contact marking material smaller than CONTA-CLIP pitch

	UM1-TMF				UM1...-TM									
	3.5x5	5x5	6x5	8x5	3.5x12	5x10	U 5x10	5x12	6x10	U 6x10	6x12	8x10	8x12	12x10
<b>UniCard, white</b>	0830935	0830902	0830904	0830924	0830925	0830905	0830910	0830912	0830903	0830907	0830909	0830906	0830920	0830916

Pitch

**Screw connection terminal blocks**

SK 1	12.2													
SL 2,5	6													
SL 4/15	7													
SL 4/35	8													
SL 10	10													
SL 16	10													
SL 35	16													
SLN 2,5	6													
SMAG 4/2,5	5.9													
SMAG 6/4	6.6													
SMAG 10/6	8.3													
SRK 2,5	5													
SRK 4	6													
SRK 6	8													
SRK 10	10													
SSIK 4	6.1													
SSIK 6	8													
SSL 2,5	5													
SSL 4	6													
SSL 6	8													
SSL 10	10													
STA 5/1	5													
STK 1	8													
STK 2	8													
STKD 1	8													
TK 2	8													
TK 4	7.5													
TKS 4	7.5													
TKS 10	11.25													
TRK 1,5	6													
TSK 2,5	10													
VMAK	6													

## Terminal marking

### Terminal marking for Klemsan

	UM1-TMF				UM1...-TM									
	3.5x5	5x5	6x5	8x5	3.5x12	5x10	U 5x10	5x12	6x10	U 6x10	6x12	8x10	8x12	12x10
<b>UniCard, white</b>	0830935	0830902	0830904	0830924	0830925	0830905	0830910	0830912	0830903	0830907	0830909	0830906	0830920	0830916

Pitch

### Spring-cage connection terminal blocks

Terminal Block	Pitch	3.5x5	5x5	6x5	8x5	3.5x12	5x10	U 5x10	5x12	6x10	U 6x10	6x12	8x10	8x12	12x10
MYK 2,5...	5		■												
MYPK 2,5...	5		■												
MYSK 2,5...	5		■												
PCY 2,5...	5.05		■				■								
PYK 1,5...	4.2					■									
PYK 2,5...	5		■				■								
PYK 2,5-2...	5		■				■								
PYK 2,5-3...	5		■				■								
PYK 3 S...	5		■				■								
PYK 4...	6									■					
PYK 4 I...	8												■		
PYK 4 S...	8												■		
PYK 4-2...	6									■					
PYK 6...	8												■		
PYK 10...	10												■		
PYKM 2,5...	5		■												
PYKMR 2,5...	5						■								
YBK 2,5...	5		■				■								
YBK 2,5-2...	5		■				■								
YBK 2,5-3...	5		■				■								
YBK 3 S...	5		■				■								
YBK 4...	5									■					
YBK 4-2...	6									■					
YBK 6...	8												■		
YBK 10...	10												■		
YBK I...	8												■		
YBK S...	8												■		

■ Pitch of Phoenix Contact marking material equal to Klemsan pitch

■ Pitch of Phoenix Contact marking material smaller than Klemsan pitch

	UM1-TMF				UM1...TM									
	3.5x5	5x5	6x5	8x5	3.5x12	5x10	U 5x10	5x12	6x10	U 6x10	6x12	8x10	8x12	12x10
<b>UniCard, white</b>	0830935	0830902	0830904	0830924	0830925	0830905	0830910	0830912	0830903	0830907	0830909	0830906	0830920	0830916

Pitch

**Screw connection terminal blocks**

ASK 2...	8														
ASK 3...	6.2														
ASK 4 LD...	10														
ASK 4 S...	10														
ASK 5...	8														
AVK 2,5...	5														
AVK 2,5 CCA...	6														
AVK 2,5 EA...	6														
AVK 2,5 F...	6														
AVK 2,5 T RD	5.75														
AVK 2,5/4...	6														
AVK 4...	6														
AVK 4 B...	10														
AVK 4 FS...	8														
AVK 4 T RD	6.2														
AVK 6...	8														
AVK 10...	10														
AVK 16...	12														
AVK 25...	12														
AVK 35...	16														
AVK Y 4...	6														
AVK Y 6...	8														
AVK Y 10...	10														
AYK 16...	11														
MVK 2,5...	5														
MVK 4...	5														
PIK 2,5 N...	5														
PIK 4 FS...	6														
PIK 4 N...	6														
PIK 10 N...	10														

## Terminal marking

### Terminal marking for Klemsan

	UM1-TMF				UM1...-TM									
	3.5x5	5x5	6x5	8x5	3.5x12	5x10	U 5x10	5x12	6x10	U 6x10	6x12	8x10	8x12	12x10
<b>UniCard, white</b>	0830935	0830902	0830904	0830924	0830925	0830905	0830910	0830912	0830903	0830907	0830909	0830906	0830920	0830916

Pitch

### Screw connection terminal blocks

PUK 2...	6													
PUK 3...	6													
WGL 1...	8													
WGO 1...	8													
WGO 2...	10													
WGO 3...	8													
WGO 4...	8													
WGO PB...6	11													
WGO Y...6...	8													

 Pitch of Phoenix Contact marking material equal to Klemsan pitch

 Pitch of Phoenix Contact marking material smaller than Klemsan pitch

	UM1-TMF				UM1...-TM									
	3.5x5	5x5	6x5	8x5	3.5x12	5x10	U 5x10	5x12	6x10	U 6x10	6x12	8x10	8x12	12x10
<b>UniCard, white</b>	0830935	0830902	0830904	0830924	0830925	0830905	0830910	0830912	0830903	0830907	0830909	0830906	0830920	0830916

Pitch

<b>Bolt connection terminal blocks</b>															
AVK 50...	20														
AVK 70...	22														
AVK 95...	25														
AVK 95 B...	40														
AVK 150...	31														
AVK 150 B...	48														
AVK 240...	36														
AVK 240 B...	53														
AVK PB 50...	20														
AVK PB 70...	22														
AVK PB 95...	25														
AVK PB 150...	31														
CPB 6...	9.5														
CPB 6B...	13														
PB 6...	11														





# Conductor and cable marking - MARKING system

Clear and permanent marking of all conductors and cables considerably improves transparency in control cabinets and switchgear. It makes assembly and maintenance work easier and assists in rectifying faults.

Phoenix Contact conductor and cable markers provide the ideal marking option for any application. Just select an assembly method. The markers can be threaded on, clipped on, adhered in place or secured with cable binders.

## Product range overview

---

<b>Conductor and cable marking</b>	<b>154</b>
------------------------------------	------------

---

### LaserSheet LS-WMTB... conductor and cable marking

Stainless steel and aluminum markers, for assembly with cable binders	<b>156</b>
---	------------

---

<b>WMTB AL... aluminum conductor and cable marking</b>	<b>160</b>
--	------------

---

### UniCard UC-WM... and UCT-WM... conductor and cable marking

Clip-on and slide-on markers, for insertion into marking collars, for assembly with cable binders, for threading	<b>162</b>
--	------------

---

### UniSheet US-WM... conductor and cable marking

Markers for insertion into marking collars, for assembly with cable binders, adhesive markers for wrapping around	<b>181</b>
---	------------

---

### WM... conductor and cable marking supplied in rolls

Adhesive markers for wrapping around or as flags	<b>184</b>
--	------------

---

<b>WMS... shrink sleeves supplied in rolls</b>	<b>189</b>
--	------------

---

### EMT and WMT... conductor and cable marking supplied in rolls

Markers for insertion into marking collars, for threading, for assembly with cable binders	<b>194</b>
--	------------

---

<b>KMK... cable markers for assembly with cable binders</b>	<b>200</b>
---	------------

---

### Cable markers for carrier assembly

Markers made of plastic and stainless steel	<b>211</b>
---	------------

---

<b>PATG... and PATO... marking collars</b>	<b>214</b>
--	------------

---

<b>Overview of conductor markers and cable markers</b>	<b>218</b>
--	------------

---

The right marking solution for every diameter

---



Far from being a luxury, standard-compliant and permanent conductor markings are actually a mark of quality demanded by customers in respect of modern high-quality capital goods. Phoenix Contact conductor and cable marking systems provide ideal marking options for any user regardless of whether the conductor markers are to be threaded on, slid on, clipped on, adhered in place or secured with cable binders.

Depending on the material, the following marking systems can be used for the individual marking of conductor and cable markers:

- TOPMARK LASER, laser marker for marking UniCard formats, as well as stainless steel and aluminum labels
- BLUEMARK CLED, high-speed printer with UV technology for marking UniCard formats and aluminum markers
- THERMOMARK CARD, thermal transfer printer for marking UniCard and UniSheet formats
- THERMOMARK ROLL, thermal transfer printer for marking material off the roll and continuous media
- THERMOMARK ROLL X1, thermal transfer printer for large quantities
- THERMOMARK W2, thermal transfer printer for double-sided marking and perforation of continuous shrink sleeves
- CMS-P1-PLOTTER
- Commercially available desktop laser printers

The CLIP PROJECT software produces easy, efficient markings. It generates the marking data directly from the circuit diagram and automatically sends the data to the relevant marking systems for further processing.

If no marking systems are available or your production facility is affected by capacity bottlenecks, you also have the option of using our marking service. We will be happy to handle your printing orders. This also includes engraving or laser marking of stainless steel cable markers.



Conductor and cable markings can be optimally and permanently marked with stainless steel or aluminum markers. They are easily attached using cable binders.



Clip-on conductor markers feature two non-detachable marking areas that remain legible at all times. They can be clipped onto pre-wired conductors and cables manually.



Individual printed markers are threaded onto conductors or attached by means of cable binders. Various materials can be supplied as cards or on rolls.



The ferrules feature an insulating collar that supports marking and are marked prior to crimping. This combines two operations in one.



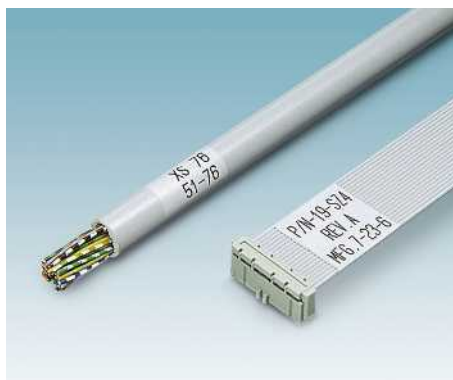
Conductors can be fitted with PATG and PATO marking collars. Marking is achieved by means of insert strips that support marking.



Shrink sleeves are ideal for captive marking of cables and conductors. They are available prefabricated and in rolls.



Conductor markers can be fitted using cable binders almost regardless of conductor or cable diameter. The large marking area provides enough space for long labels.



Cable marker labels consist of a marking field and a transparent foil that protects the marking against abrasion and dirt. The labels are available in various shapes and sizes.



Plastic cable markers are suitable for both bundling and marking conductors and cables. A screw cap protects the marking against dirt and can be replaced at any time.

## Conductor and cable marking

### Stainless steel and aluminum cable marking for assembly with cable binders



- The LS-WMTB ... product range is available in stainless steel (V4A) or aluminum and includes markers that can be quickly and easily fitted with cable binders
- The LS-WMTB-V4A ... group is particularly characterized by its high resistance to salt water, chloride, and solvents and it is therefore also suitable for the most demanding industrial requirements



- By selecting the material in the CLIP PROJECT planning and configuration software, the correct laser parameters are automatically passed to the TOPMARK LASER
- **Designation example:**  
**LS-WMTB-V4A (29x8)**  
Lettering field size: 29 x 8 mm



- The use of modern laser technology creates highly resistant and permanent marking, which can only be removed by destroying the material
- The LS-WMTB-V4A ... product group can be marked in two ways: by engraving or annealing
- Marking service: Phoenix Contact can custom-mark all markers according to your requirements

Can be marked using:



Direct laser marking

#### General data

Can be marked using  
Material  
Wipe resistance  
Components

#### Description

**Stainless steel label**, for assembly with cable binders, conductor diameter

36-section, > 2.9 mm Ø

16-section, > 4.6 mm Ø

16-section, > 4.6 mm Ø

8-section, > 4.6 mm Ø

**Aluminum label**, for assembly with cable binders, conductor diameter

36-section, > 2.9 mm Ø

16-section, > 4.6 mm Ø

16-section, > 4.6 mm Ø

8-section, > 4.6 mm Ø

#### Sheet hopper, for TOPMARK LASER

#### Notes:

For corresponding stainless steel cable binders, see page 594.

PRINTED  
FOR YOU



Stainless steel, material thickness: 0.5 mm

PRINTED  
FOR YOU



Aluminum, material thickness: 0.8 mm

PRINTED  
FOR YOU



Aluminum, black, material thickness: 0.8 mm

### Technical data

TOPMARK LASER  
V4A  
DIN EN 61010-1 (VDE 0411-1)  
free from silicone, halogen, and cadmium

### Ordering data

Type	Order No.	Pcs. / Pkt.
LS-WMTB-V4A (29X8)	0831516	5
LS-WMTB-V4A (40X15)	0831517	5
LS-WMTB-V4A (60X15)	0831518	5
LS-WMTB-V4A (100X15)	0831519	5

### Accessories

TOPMARK LASER-MAG SHEET	0831836	1
-------------------------	---------	---

### Technical data

TOPMARK LASER  
aluminum  
DIN EN 61010-1 (VDE 0411-1)  
free from silicone, halogen, and cadmium

### Ordering data

Type	Order No.	Pcs. / Pkt.
LS-WMTB-AL (29X8)	0831500	5
LS-WMTB-AL (40X15)	0831501	5
LS-WMTB-AL (60X15)	0831502	5
LS-WMTB-AL (100X15)	0831503	5

### Accessories

TOPMARK LASER-MAG SHEET	0831836	1
-------------------------	---------	---

### Technical data

TOPMARK LASER  
aluminum  
DIN EN 61010-1 (VDE 0411-1)  
free from silicone, halogen, and cadmium

### Ordering data

Type	Order No.	Pcs. / Pkt.
LS-WMTB-AL (29X8) BK	0831508	5
LS-WMTB-AL (40X15) BK	0831509	5
LS-WMTB-AL (60X15) BK	0831510	5
LS-WMTB-AL (100X15) BK	0831511	5

### Accessories

TOPMARK LASER-MAG SHEET	0831836	1
-------------------------	---------	---

## Conductor and cable marking

### Stainless steel and aluminum cable marking for assembly with cable binders



- The LS-WMTB ... product range in circular format is available in stainless steel (V4A) or aluminum and includes markers that can be quickly and easily fitted with cable binders
- The LS-WMTB-V4A ... group is particularly characterized by its high resistance to saltwater, chloride, and solvents and it is therefore also suitable for the most demanding industrial requirements



- By selecting the material in the CLIP PROJECT planning and configuration software, the correct laser parameters are automatically passed to the TOPMARK LASER
- **Designation example:**  
**LS-WMTB-V4A (D25)**  
Diameter: 25 mm



- The use of modern laser technology creates highly resistant and permanent marking, which can only be removed by destroying the material
- The LS-WMTB-V4A ... product group can be marked in two ways: by engraving or annealing
- Marking service: Phoenix Contact can custom-mark all markers according to your requirements

Can be marked using:



Direct laser marking

#### General data

Can be marked using  
Material  
Wipe resistance  
Components

#### Description

**Stainless steel label**, round, for assembly with cable binders

30-section, diameter: 25 mm  
20-section, diameter: 30 mm

**Aluminum label**, round, for assembly with cable binders

30-section, diameter: 25 mm  
20-section, diameter: 30 mm

#### Sheet hopper, for TOPMARK LASER

#### Notes:

For corresponding stainless steel cable binders, see page 594.

PRINTED  
FOR YOU



Stainless steel, material thickness: 0.5 mm

PRINTED  
FOR YOU



Aluminum, material thickness: 0.8 mm

PRINTED  
FOR YOU



Aluminum, black, material thickness: 0.8 mm

### Technical data

TOPMARK LASER  
V4A  
DIN EN 61010-1 (VDE 0411-1)  
free from silicone, halogen, and cadmium

### Ordering data

Type	Order No.	Pcs. / Pkt.
LS-WMTB-V4A (D25)	0831520	5
LS-WMTB-V4A (D30)	0831521	5

### Accessories

TOPMARK LASER-MAG SHEET	0831836	1
-------------------------	---------	---

### Technical data

TOPMARK LASER  
aluminum  
DIN EN 61010-1 (VDE 0411-1)  
free from silicone, halogen, and cadmium

### Ordering data

Type	Order No.	Pcs. / Pkt.
LS-WMTB-AL (D25)	0831504	5
LS-WMTB-AL (D30)	0831505	5

### Accessories

TOPMARK LASER-MAG SHEET	0831836	1
-------------------------	---------	---

### Technical data

TOPMARK LASER  
aluminum  
DIN EN 61010-1 (VDE 0411-1)  
free from silicone, halogen, and cadmium

### Ordering data

Type	Order No.	Pcs. / Pkt.
LS-WMTB-AL (D25) BK	0831512	5
LS-WMTB-AL (D30) BK	0831513	5

### Accessories

TOPMARK LASER-MAG SHEET	0831836	1
-------------------------	---------	---

## Conductor and cable marking

### Aluminum cable marking for assembly with cable binders



UV LED technology

PRINTED  
FOR YOU



Aluminum, material thickness: 0.8 mm

The WMTBA... product range is available in aluminum (AL) and is characterized by:

- High-quality appearance
- Easy assembly with cable binders
- Suitable for large-surface marking of conductors and cables > 2.9 mm in diameter

**Notes:**

For corresponding stainless steel cable binders, see page 594.

**General data**

Can be marked using  
Material  
Wipe resistance  
Components

**Technical data**

BLUEMARK CLED  
aluminum  
DIN EN 61010-1 (VDE 0411-1)  
free from silicone, halogen, and cadmium

Description	Color
<b>Aluminum label</b> , 0.8 mm thick, conductor diameter [mm]	
Lettering field size: 29 x 8 mm, > 2.9 mm Ø	aluminum
Lettering field size: 40 x 15 mm, > 4.6 mm Ø	aluminum
Lettering field size: 60 x 15 mm, > 4.6	aluminum
<b>Aluminum label</b> , round, 0.8 mm thick	
Diameter: 30 mm	aluminum

**Ordering data**

Type	Order No.	Pcs. / Pkt.
<b>WMTB-AL (29X8)</b>	<b>0830805</b>	90
<b>WMTB-AL (40X15)</b>	<b>0830524</b>	45
<b>WMTB-AL (60X15)</b>	<b>0830525</b>	45

**Magazine**, for BLUEMARK printer, for accommodating aluminum labels  
for WMTB-AL (29X8)  
for WMTB-AL (40X15)  
for WMTB-AL (60X15)  
**Magazine**, for BLUEMARK printer, for accommodating stainless steel and aluminum labels  
for WMTB-AL (D30) ...

**Accessories**

	Order No.	Pcs. / Pkt.
<b>BLUEMARK MAG WM-M (29X8)</b>	<b>0802743</b>	1
<b>BLUEMARK MAG WM-M (40X15)</b>	<b>0802744</b>	1
<b>BLUEMARK MAG WM-M (60X15)</b>	<b>0802746</b>	1



PRINTED  
FOR YOU



Aluminum, material thickness: 0.8 mm

**Technical data**

BLUEMARK CLED  
aluminum  
DIN EN 61010-1 (VDE 0411-1)  
free from silicone, halogen, and cadmium

**Ordering data**

Type	Order No.	Pcs. / Pkt.
WMTB-AL (D30)	0830804	90

**Accessories**

BLUEMARK MAG WM-M (D30)	0802747	1
-------------------------	---------	---

## Conductor and cable marking

### Clip-on UniCard conductor marking

Can be marked using:



UV LED technology



Plotter

PRINTED  
FOR YOU



Markers for conductor diameters  
from 1.2 to 1.9 mm

- The UC-WMC ... UniCard marking range includes markers for captive marking of control cables right through to light plastic-sheathed cables with large diameters
- The markers, which are supplied in uniform sheets, can be marked quickly and easily using the BLUEMARK
- The format automatically ensures printing with a high level of positional accuracy
- Can be clipped on even after wiring has been completed
- One-handed assembly
- Two marking areas that are clearly legible at all times
- The markers support multiline marking
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

**Notes:**

For more variants, see [phoenixcontact.net/products](http://phoenixcontact.net/products).

General data	
Can be marked using	BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 120 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Free from silicone and halogen
Conductor diameter range	1.2 ... 1.9 [mm]
Conductor cross section range	0.25 ... 0.34 [mm <sup>2</sup> ]
Conductor cross section range	24 ... 22 AWG

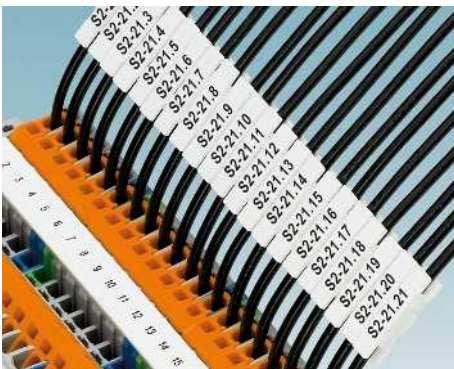
Technical data	
Can be marked using	BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 120 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Free from silicone and halogen
Conductor diameter range	1.2 ... 1.9 [mm]
Conductor cross section range	0.25 ... 0.34 [mm <sup>2</sup> ]
Conductor cross section range	24 ... 22 AWG

Description	Color
UniCard, for subsequent marking of conductors, lettering field size 15 x 4 mm, 20-section, 4 individual labels per strip	white
	red
	orange
	yellow
	violet
	blue
UniCard, for subsequent marking of conductors, lettering field size 30 x 4 mm, 12-section, 4 individual labels per strip	white

Ordering data		
Type	Order No.	Pcs. / Pkt.
UC-WMC 1,9 (15X4)	0828004	10
UC-WMC 1,9 (15X4) RD	0828006	10
UC-WMC 1,9 (15X4) OG	0828007	10
UC-WMC 1,9 (15X4) YE	0828008	10
UC-WMC 1,9 (15X4) VT	0828009	10
UC-WMC 1,9 (15X4) BU	0828010	10
UC-WMC 1,9 (30X4)	0830283	10

Magazine, for CMS-P1-PLOTTER		
P1 UC-MAG 1	5146079	1

Accessories		
P1 UC-MAG 1	5146079	1



Clip-on UniCard conductor marking



Markers for conductor diameters from 1.9 to 3.1 mm

General data		Technical data	
Can be marked using		BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER	
Material		PA	
Inflammability class according to UL 94		V2	
Temperature range	[°C]	-40 ... 120	
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)	
Components		Free from silicone and halogen	
Conductor diameter range	[mm]	1.9 ... 3.1	
Conductor cross section range	[mm²]	0.5 ... 1.5	
Conductor cross section range	AWG	20 ... 16	

Description		Color	Type	Order No.	Pcs. / Pkt.
<b>UniCard</b> , for subsequent marking of conductors, lettering field size 15 x 4 mm, 20-section, 4 individual labels per strip					
	white		UC-WMC 3,1 (15X4)	0818205	10
	red		UC-WMC 3,1 (15X4) RD	0818755	10
	orange		UC-WMC 3,1 (15X4) OG	0818726	10
	yellow		UC-WMC 3,1 (15X4) YE	0818739	10
	violet		UC-WMC 3,1 (15X4) VT	0825370	10
	blue		UC-WMC 3,1 (15X4) BU	0818742	10
<b>UniCard</b> , for subsequent marking of conductors, lettering field size 23 x 4 mm, 12-section, 4 individual labels per strip					
	white		UC-WMC 3,1 (23X4)	0818218	10
	red		UC-WMC 3,1 (23X4) RD	0818807	10
	orange		UC-WMC 3,1 (23X4) OG	0818771	10
	yellow		UC-WMC 3,1 (23X4) YE	0818784	10
	violet		UC-WMC 3,1 (23X4) VT	0825371	10
	blue		UC-WMC 3,1 (23X4) BU	0818797	10
<b>UniCard</b> , for subsequent marking of conductors, lettering field size 30 x 4 mm, 12-section, 4 individual labels per strip					
	white		UC-WMC 3,1 (30X4)	0819631	10
	red		UC-WMC 3,1 (30X4) RD	0820769	10
	orange		UC-WMC 3,1 (30X4) OG	0823863	10
	yellow		UC-WMC 3,1 (30X4) YE	0819644	10
	violet		UC-WMC 3,1 (30X4) VT	0825372	10
	blue		UC-WMC 3,1 (30X4) BU	0820756	10

Magazine, for CMS-P1-PLOTTER		Accessories		
		P1 UC-MAG 1	5146079	1

## Conductor and cable marking

### Clip-on UniCard conductor marking

Can be marked using:



UV LED technology



Plotter

PRINTED  
FOR YOU



Markers for conductor diameters  
from 2.8 to 4.4 mm

- The UC-WMC ... UniCard marking range includes markers for captive marking of control cables right through to light plastic-sheathed cables with large diameters
- The markers, which are supplied in uniform sheets, can be marked quickly and easily using the BLUEMARK
- The format automatically ensures printing with a high level of positional accuracy
- Can be clipped on even after wiring has been completed
- One-handed assembly
- Two marking areas that are clearly legible at all times
- The markers support multiline marking
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

#### General data

Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	
Conductor diameter range	[mm]
Conductor cross section range	[mm <sup>2</sup> ]
Conductor cross section range	AWG

#### Technical data

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen
2.8 ... 4.4
1.5 ... 4
16 ... 12

Description	Color
-------------	-------

UniCard, for subsequent marking of conductors, lettering field size 15 x 5.5 mm, 15-section, 3 individual labels per strip

#### Ordering data

Type	Order No.	Pcs. / Pkt.
------	-----------	-------------

white	UC-WMC 4,4 (15X5,5)	0818182	10
red	UC-WMC 4,4 (15X5,5) RD	0818852	10
orange	UC-WMC 4,4 (15X5,5) OG	0818823	10
yellow	UC-WMC 4,4 (15X5,5) YE	0818836	10
violet	UC-WMC 4,4 (15X5,5) VT	0825373	10
blue	UC-WMC 4,4 (15X5,5) BU	0818849	10
green	UC-WMC 4,4 (15X5,5) GN	0818865	10

UniCard, for subsequent marking of conductors, lettering field size 23 x 5.5 mm, 9-section, 3 individual labels per strip

white	UC-WMC 4,4 (23X5,5)	0818195	10
red	UC-WMC 4,4 (23X5,5) RD	0818904	10
orange	UC-WMC 4,4 (23X5,5) OG	0818878	10
yellow	UC-WMC 4,4 (23X5,5) YE	0818881	10
violet	UC-WMC 4,4 (23X5,5) VT	0825374	10
blue	UC-WMC 4,4 (23X5,5) BU	0818894	10
green	UC-WMC 4,4 (23X5,5) GN	0818917	10

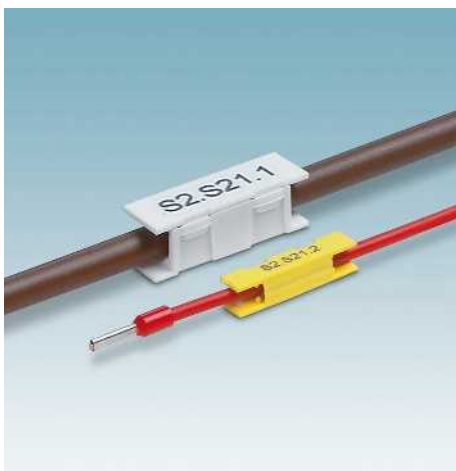
UniCard, for subsequent marking of conductors, lettering field size 30 x 5.5 mm, 9-section, 3 individual labels per strip

white	UC-WMC 4,4 (30X5,5)	0819657	10
red	UC-WMC 4,4 (30X5,5) RD	0820882	10
orange	UC-WMC 4,4 (30X5,5) OG	0823944	10
yellow	UC-WMC 4,4 (30X5,5) YE	0819660	10
violet	UC-WMC 4,4 (30X5,5) VT	0825375	10
blue	UC-WMC 4,4 (30X5,5) BU	0820879	10
green	UC-WMC 4,4 (30X5,5) GN	0823957	10

Magazine, for CMS-P1-PLOTTER

#### Accessories

P1 UC-MAG 2	5146082	1
-------------	---------	---



Clip-on UniCard conductor marking



Markers for conductor diameters from 4.2 to 5.6 mm



Markers for conductor diameters from 5 to 7.5 mm

General data		Technical data			Technical data		
Can be marked using		BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER			BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER		
Material		PA			PA		
Inflammability class according to UL 94		V2			V2		
Temperature range	[°C]	-40 ... 120			-40 ... 120		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)			DIN EN 61010-1 (VDE 0411-1)		
Components		Free from silicone and halogen			Free from silicone and halogen		
Conductor diameter range	[mm]	4.2 ... 5.6			5 ... 7.5		
Conductor cross section range	[mm²]	4 ... 10			6 ... 16		
Conductor cross section range	AWG	12 ... 10			10 ... 6		
Description		Ordering data			Ordering data		
UniCard, for subsequent marking of conductors, lettering field size 23 x 8 mm, 6-section, 2 individual labels per strip	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
	white	UC-WMC 5,6 (23X8)	0825382	5	UC-WMC 7,5 (23X8)	0818179	5
	red	UC-WMC 5,6 (23X8) RD	0825387	5	UC-WMC 7,5 (23X8) RD	0819039	5
	orange	UC-WMC 5,6 (23X8) OG	0825385	5	UC-WMC 7,5 (23X8) OG	0818920	5
	yellow	UC-WMC 5,6 (23X8) YE	0825386	5	UC-WMC 7,5 (23X8) YE	0818933	5
	violet	UC-WMC 5,6 (23X8) VT	0825388	5	UC-WMC 7,5 (23X8) VT	0825376	5
	blue	UC-WMC 5,6 (23X8) BU	0825383	5	UC-WMC 7,5 (23X8) BU	0818946	5
	green	UC-WMC 5,6 (23X8) GN	0825384	5	UC-WMC 7,5 (23X8) GN	0818959	5
UniCard, for subsequent marking of conductors, lettering field size 30 x 8 mm, 6-section, 2 individual labels per strip	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
	white	UC-WMC 5,6 (30X8)	0825396	5	UC-WMC 7,5 (30X8)	0819673	5
	red	UC-WMC 5,6 (30X8) RD	0825401	5	UC-WMC 7,5 (30X8) RD	0820963	5
	orange	UC-WMC 5,6 (30X8) OG	0825399	5	UC-WMC 7,5 (30X8) OG	0823724	5
	yellow	UC-WMC 5,6 (30X8) YE	0825400	5	UC-WMC 7,5 (30X8) YE	0819686	5
	violet	UC-WMC 5,6 (30X8) VT	0825402	5	UC-WMC 7,5 (30X8) VT	0825377	5
	blue	UC-WMC 5,6 (30X8) BU	0825397	5	UC-WMC 7,5 (30X8) BU	0820950	5
	green	UC-WMC 5,6 (30X8) GN	0825398	5	UC-WMC 7,5 (30X8) GN	0823708	5
Magazine, for CMS-P1-PLOTTER		Accessories			Accessories		
		P1 UC-MAG 3	5146095	1	P1 UC-MAG 3	5146095	1

## Conductor and cable marking

### UniCard slide-on conductor marking

- The UC-WMCO ... UniCard marking range includes slide-on markers for the subsequent marking of conductors. They can be slid on easily using the UC-WMCO ... TOOL
- The markers, which are supplied in uniform sheets, can be marked quickly and easily using the BLUEMARK or plotter
- The format automatically ensures printing with a high level of positional accuracy
- Large-surface marking in a space-saving design

PRINTED  
FOR YOU



Markers for conductor diameters from 1.3 to 1.6 mm

PRINTED  
FOR YOU



Markers for conductor diameters from 1.6 to 2.1 mm

#### General data

Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Components	
Conductor diameter range	[mm]
Conductor cross section range	[mm²]

Technical data	
Can be marked using	BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 120
Components	Free from silicone and halogen
Conductor diameter range	1.3 ... 1.6
Conductor cross section range	0.25 ... 0.5

Technical data	
Can be marked using	BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 120
Components	Free from silicone and halogen
Conductor diameter range	1.6 ... 2.1
Conductor cross section range	0.5 ... 0.75

#### Ordering data

Description	Color
<b>UniCard</b> , for subsequent marking of conductors, lettering field size 12 x 3 mm, 40-section, 10 individual labels per strip	white
	red
	orange
	yellow
	violet
	blue
	green
<b>UniCard</b> , for subsequent marking of conductors, lettering field size 21 x 3 mm, 40-section, 10 individual labels per strip	white
	red
	orange
	yellow
	violet
	blue
	green

Type	Order No.	Pcs. / Pkt.
UC-WMCO 1,6 (12X3)	0827092	10
UC-WMCO 1,6 (12X3) RD	0827516	10
UC-WMCO 1,6 (12X3) OG	0827517	10
UC-WMCO 1,6 (12X3) YE	0827513	10
UC-WMCO 1,6 (12X3) VT	0827518	10
UC-WMCO 1,6 (12X3) BU	0827514	10
UC-WMCO 1,6 (12X3) GN	0827515	10
UC-WMCO 1,6 (21X3)	0827106	10
UC-WMCO 1,6 (21X3) RD	0827528	10
UC-WMCO 1,6 (21X3) OG	0827529	10
UC-WMCO 1,6 (21X3) YE	0827525	10
UC-WMCO 1,6 (21X3) VT	0827530	10
UC-WMCO 1,6 (21X3) BU	0827526	10
UC-WMCO 1,6 (21X3) GN	0827527	10

Type	Order No.	Pcs. / Pkt.
UC-WMCO 2,1 (12X3)	0827120	10
UC-WMCO 2,1 (12X3) RD	0827540	10
UC-WMCO 2,1 (12X3) OG	0827541	10
UC-WMCO 2,1 (12X3) YE	0827537	10
UC-WMCO 2,1 (12X3) VT	0827542	10
UC-WMCO 2,1 (12X3) BU	0827538	10
UC-WMCO 2,1 (12X3) GN	0827539	10
UC-WMCO 2,1 (21X3)	0827134	10
UC-WMCO 2,1 (21X3) RD	0827552	10
UC-WMCO 2,1 (21X3) OG	0827553	10
UC-WMCO 2,1 (21X3) YE	0827549	10
UC-WMCO 2,1 (21X3) VT	0827554	10
UC-WMCO 2,1 (21X3) BU	0807550	10
UC-WMCO 2,1 (21X3) GN	0827551	10

#### Magazine, for CMS-P1-PLOTTER

**Assembly tool**, for easily sliding on UC-WMCO 1,6 and UC-WMCO 2,1 conductor markers

**Assembly tool set**, for easily sliding on UC-WMCO 1,6 ... and UC-WMCO 4,9 ... conductor markers

Accessories		
P1 UC-MAG 7	5146568	1
UC-WMCO 2,1 TOOL	0827803	10
UC-WMCO TOOL SET	0827807	1

Accessories		
P1 UC-MAG 7	5146568	1
UC-WMCO 2,1 TOOL	0827803	10
UC-WMCO TOOL SET	0827807	1

UniCard slide-on conductor marking

PRINTED  
FOR YOU



Markers for conductor diameters from 2.1 to 2.9 mm

PRINTED  
FOR YOU



Markers for conductor diameters from 2.9 to 3.6 mm

General data		Technical data			Technical data		
Can be marked using		BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER			BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER		
Material		PA			PA		
Inflammability class according to UL 94		V2			V2		
Temperature range	[°C]	-40 ... 120			-40 ... 120		
Components		Free from silicone and halogen			Free from silicone and halogen		
Conductor diameter range	[mm]	2.1 ... 2.9			2.9 ... 3.6		
Conductor cross section range	[mm²]	0.75 ... 1.5			1.5 ... 2.5		
Description		Ordering data			Ordering data		
	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
<b>UniCard</b> , for subsequent marking of conductors, lettering field size 12 x 3.5 mm, 40-section, 10 individual labels per strip							
	white	UC-WMCO 2,9 (12X3,5)	0827148	10			
	red	UC-WMCO 2,9 (12X3,5) RD	0827564	10			
	orange	UC-WMCO 2,9 (12X3,5) OG	0827565	10			
	yellow	UC-WMCO 2,9 (12X3,5) YE	0827561	10			
	violet	UC-WMCO 2,9 (12X3,5) VT	0827566	10			
	blue	UC-WMCO 2,9 (12X3,5) BU	0827562	10			
	green	UC-WMCO 2,9 (12X3,5) GN	0827563	10			
<b>UniCard</b> , for subsequent marking of conductors, lettering field size 21 x 3.5 mm, 40-section, 10 individual labels per strip							
	white	UC-WMCO 2,9 (21X3,5)	0827162	10			
	red	UC-WMCO 2,9 (21X3,5) RD	0827576	10			
	orange	UC-WMCO 2,9 (21X3,5) OG	0827577	10			
	yellow	UC-WMCO 2,9 (21X3,5) YE	0827573	10			
	violet	UC-WMCO 2,9 (21X3,5) VT	0827578	10			
	blue	UC-WMCO 2,9 (21X3,5) BU	0827574	10			
	green	UC-WMCO 2,9 (21X3,5) GN	0827575	10			
<b>UniCard</b> , for subsequent marking of conductors, lettering field size 12 x 4.5 mm, 32-section, 8 individual labels per strip							
	white				UC-WMCO 3,6 (12X4,5)	0827176	10
	red				UC-WMCO 3,6 (12X4,5) RD	0827588	10
	orange				UC-WMCO 3,6 (12X4,5) OG	0827589	10
	yellow				UC-WMCO 3,6 (12X4,5) YE	0827585	10
	violet				UC-WMCO 3,6 (12X4,5) VT	0827590	10
	blue				UC-WMCO 3,6 (12X4,5) BU	0827586	10
	green				UC-WMCO 3,6 (12X4,5) GN	0827587	10
<b>UniCard</b> , for subsequent marking of conductors, lettering field size 21 x 4.5 mm, 32-section, 8 individual labels per strip							
	white				UC-WMCO 3,6 (21X4,5)	0827190	10
	red				UC-WMCO 3,6 (21X4,5) RD	0827600	10
	orange				UC-WMCO 3,6 (21X4,5) OG	0827601	10
	yellow				UC-WMCO 3,6 (21X4,5) YE	0827597	10
	violet				UC-WMCO 3,6 (21X4,5) VT	0827602	10
	blue				UC-WMCO 3,6 (21X4,5) BU	0827598	10
	green				UC-WMCO 3,6 (21X4,5) GN	0827599	10
Magazine, for CMS-P1-PLOTTER		Accessories			Accessories		
		P1 UC-MAG 7	5146568	1	P1 UC-MAG 7	5146568	1
<b>Assembly tool</b> , for easily sliding on UC-WMCO 2,9 ... and UC-WMCO 3,6 ... conductor markers							
		UC-WMCO 3,6 TOOL	0827804	10	UC-WMCO 3,6 TOOL	0827804	10
<b>Assembly tool set</b> , for easily sliding on UC-WMCO 1,6 ... and UC-WMCO 4,9 ... conductor markers							
		UC-WMCO TOOL SET	0827807	1	UC-WMCO TOOL SET	0827807	1

## Conductor and cable marking

### UniCard slide-on conductor marking

- The UC-WMCO ... UniCard marking range includes slide-on markers for the subsequent marking of conductors. They can be slid on easily using the UC-WMCO ... TOOL
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements
- The markers, which are supplied in uniform sheets, can be marked quickly and easily using the BLUEMARK or plotter

PRINTED  
FOR YOU



Markers for conductor diameters from 3.6 to 4.9 mm, lettering field size 12 x 5 mm

PRINTED  
FOR YOU



Markers for conductor diameters from 3.6 to 4.9 mm, lettering field size 21 x 5 mm

#### General data

Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Components	
Conductor diameter range	[mm]
Conductor cross section range	[mm²]

Technical data	
Can be marked using	BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 120
Components	Free from silicone and halogen
Conductor diameter range	3.6 ... 4.9
Conductor cross section range	2.5 ... 4

Technical data	
Can be marked using	BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 120
Components	Free from silicone and halogen
Conductor diameter range	3.6 ... 4.9
Conductor cross section range	2.5 ... 4

#### Description

**UniCard**, for subsequent marking of conductors, lettering field size 12 x 5 mm, 24-section, 6 individual labels per strip

white  
red  
orange  
yellow  
violet  
blue  
green

#### Ordering data

Type	Order No.	Pcs. / Pkt.
UC-WMCO 4,9 (12X5)	0827733	5
UC-WMCO 4,9 (12X5) RD	0827737	5
UC-WMCO 4,9 (12X5) OG	0827738	5
UC-WMCO 4,9 (12X5) YE	0827734	5
UC-WMCO 4,9 (12X5) VT	0827739	5
UC-WMCO 4,9 (12X5) BU	0827735	5
UC-WMCO 4,9 (12X5) GN	0827736	5

#### Ordering data

Type	Order No.	Pcs. / Pkt.
UC-WMCO 4,9 (21X5)	0827747	5
UC-WMCO 4,9 (21X5) RD	0827751	5
UC-WMCO 4,9 (21X5) OG	0827752	5
UC-WMCO 4,9 (21X5) YE	0827748	5
UC-WMCO 4,9 (21X5) VT	0827753	5
UC-WMCO 4,9 (21X5) BU	0827749	5
UC-WMCO 4,9 (21X5) GN	0827750	5

**UniCard**, for subsequent marking of conductors, lettering field size 21 x 5 mm, 24-section, 6 individual labels per strip

white  
red  
orange  
yellow  
violet  
blue  
green

#### Accessories

**Magazine**, for CMS-P1-PLOTTER

**Assembly tool**, for easily sliding on UC-WMCO 4,9 ... conductor markers

**Assembly tool set**, for easily sliding on UC-WMCO 1,6 ... and UC-WMCO 4,9 ... conductor markers

Type	Order No.	Pcs. / Pkt.
P1 UC-MAG 7	5146568	1
UC-WMCO 5,8 TOOL	0827805	10
UC-WMCO TOOL SET	0827807	1

#### Accessories

Type	Order No.	Pcs. / Pkt.
P1 UC-MAG 7	5146568	1
UC-WMCO 5,8 TOOL	0827805	10
UC-WMCO TOOL SET	0827807	1



Conductor marking with ferrules that can be marked

Can be marked using:



UV LED technology



Ferrules for conductors with a cross section of 0.5 to 2.5 mm<sup>2</sup>, lettering field size: 15 x 4 mm

- Ferrules can be marked with BLUEMARK
- Crimping and marking in one step
- Highly resistant and optimum printing quality, thanks to modern UV printing technology
- Ferrules made from electrolytic copper
- Electrogalvanized
- Corresponding crimping pliers can be found on page 389

ERIC

General data	
Can be marked using	
Material / coating	
Temperature range	[°C]
Components	

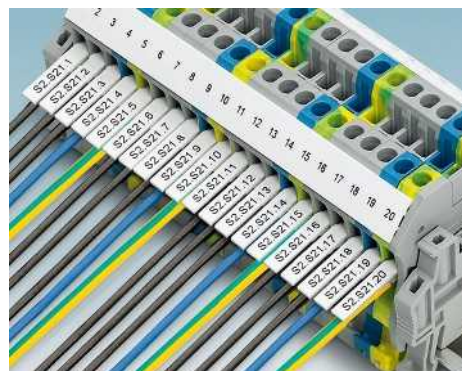
Technical data	
BLUEMARK CLED • BLUEMARK LED	
E-CU / tin-plated (galvanic)	
-40 ... 120	
Free from silicone and halogen	

Description	Color
<b>Ferrules</b> , with plastic sleeve that can be marked, color range according to <b>DIN 46228-4: 1990-09</b>	
20 pcs., 0.5 mm <sup>2</sup> cross section	white
20 pcs., 0.75 mm <sup>2</sup> cross section	gray
20 pcs., 1.0 mm <sup>2</sup> cross section	red
20 pcs., 1.5 mm <sup>2</sup> cross section	white
20 pcs., 2.5 mm <sup>2</sup> cross section	blue

Ordering data		
Type	Order No.	Pcs. / Pkt.
AI-WM 0,5-8 WH	3240542	780
AI-WM 0,75-8 GY	3240543	780
AI-WM 1-8 RD	3240544	780
AI-WM 1,5-8 WH	3240545	780
AI-WM 2,5-8 BU	3240572	528

Magazine for BLUEMARK printer, for accommodating ferrules with insulating collar that can be marked	
For 0.5 – 1.5 mm <sup>2</sup>	
For 2.5 mm <sup>2</sup>	

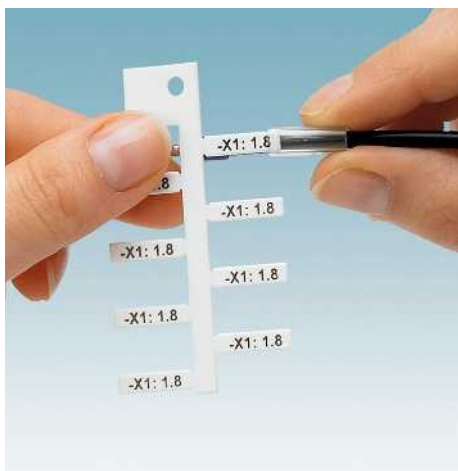
Accessories		
	Order No.	Pcs. / Pkt.
BLUEMARK MAG AI-WM	5146567	1
BLUEMARK MAG AI-WM 2,5	5146640	1



## Conductor and cable marking

### UniCard conductor marking for marking collars

Can be marked using:



UV LED technology



Plotter

PRINTED  
FOR YOU



Marker with lettering field size  
10 x 4 mm to 18 x 4 mm

- The UC-WMT ... UniCard marking range includes markers for conductor marking with marking collars from the PATG/PATO ... system; see page 214
- The markers, which are supplied in uniform sheets, can be marked quickly and easily using the BLUEMARK
- The format automatically ensures printing with a high level of positional accuracy
- Marked insert strips are simply inserted into the collars. This protects the marking against contamination
- To simplify mounting, the insert labels are arranged on UniCard sheets so that they can be separated branch by branch
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

**Notes:**  
PATG/PATO ... system, see page 214.

#### General data

Can be marked using  
Material  
Inflammability class according to UL 94  
Temperature range [°C]  
Components

#### Technical data

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER  
PA  
V2  
-40 ... 120  
Free from silicone and halogen

Description	Color
-------------	-------

UniCard, with insert strips for PATG and PATO marking collars, for lettering field size 10 x 4 mm, 48-section, 8 individual labels per strip

white UC-WMT (10X4)  
red UC-WMT (10X4) RD  
orange UC-WMT (10X4) OG  
yellow UC-WMT (10X4) YE  
violet UC-WMT (10X4) VT  
blue UC-WMT (10X4) BU  
green UC-WMT (10X4) GN

UniCard, with insert strips for PATG and PATO marking collars, for lettering field size 12 x 4 mm, 32-section, 8 individual labels per strip

white UC-WMT (12X4)  
red UC-WMT (12X4) RD  
orange UC-WMT (12X4) OG  
yellow UC-WMT (12X4) YE  
violet UC-WMT (12X4) VT  
blue UC-WMT (12X4) BU  
green UC-WMT (12X4) GN

UniCard, with insert strips for PATG and PATO marking collars, for lettering field size 15 x 4 mm, 32-section, 8 individual labels per strip

white UC-WMT (15X4)  
red UC-WMT (15X4) RD  
orange UC-WMT (15X4) OG  
yellow UC-WMT (15X4) YE  
violet UC-WMT (15X4) VT  
blue UC-WMT (15X4) BU  
green UC-WMT (15X4) GN

UniCard, with insert strips for PATG and PATO marking collars, for lettering field size 18 x 4 mm, 24-section, 8 individual labels per strip

white UC-WMT (18X4)  
red UC-WMT (18X4) RD  
orange UC-WMT (18X4) OG  
yellow UC-WMT (18X4) YE  
violet UC-WMT (18X4) VT  
blue UC-WMT (18X4) BU  
green UC-WMT (18X4) GN

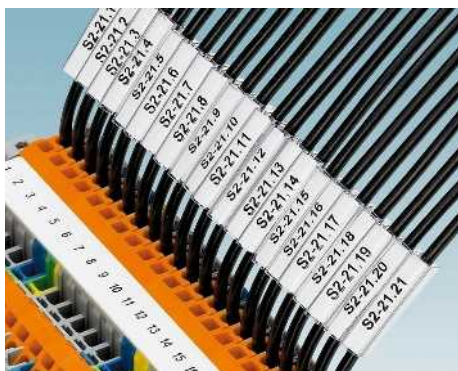
#### Ordering data

Type	Order No.	Pcs. / Pkt.
UC-WMT (10X4)	0819372	10
UC-WMT (10X4) RD	0821001	10
UC-WMT (10X4) OG	0823986	10
UC-WMT (10X4) YE	0819385	10
UC-WMT (10X4) VT	0825360	10
UC-WMT (10X4) BU	0820992	10
UC-WMT (10X4) GN	0823999	10
UC-WMT (12X4)	0823517	10
UC-WMT (12X4) RD	0823614	10
UC-WMT (12X4) OG	0823588	10
UC-WMT (12X4) YE	0823591	10
UC-WMT (12X4) VT	0825378	10
UC-WMT (12X4) BU	0823575	10
UC-WMT (12X4) GN	0823601	10
UC-WMT (15X4)	0819398	10
UC-WMT (15X4) RD	0821043	10
UC-WMT (15X4) OG	0824037	10
UC-WMT (15X4) YE	0819408	10
UC-WMT (15X4) VT	0825361	10
UC-WMT (15X4) BU	0821030	10
UC-WMT (15X4) GN	0824040	10
UC-WMT (18X4)	0820293	10
UC-WMT (18X4) RD	0821085	10
UC-WMT (18X4) OG	0824079	10
UC-WMT (18X4) YE	0820303	10
UC-WMT (18X4) VT	0825362	10
UC-WMT (18X4) BU	0821072	10
UC-WMT (18X4) GN	0824082	10

#### Accessories

Magazine, for CMS-P1-PLOTTER

P1 UC-MAG 4	5146105	1
-------------	---------	---



UniCard conductor marking for marking collars



Marker with lettering field size 23 x 4 mm



Marker with lettering field size 30 x 4 mm

		Technical data			Technical data		
<b>General data</b>		BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER			BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER		
Can be marked using		PA			PA		
Material		V2			V2		
Inflammability class according to UL 94		-40 ... 120			-40 ... 120		
Temperature range [°C]		Free from silicone and halogen			Free from silicone and halogen		
Components							
		Ordering data			Ordering data		
<b>Description</b>		<b>Type</b>	<b>Order No.</b>	<b>Pcs. / Pkt.</b>	<b>Type</b>	<b>Order No.</b>	<b>Pcs. / Pkt.</b>
<b>UniCard</b> , with insert strips for PATG and PATO marking collars, for lettering field size 23 x 4 mm, 24-section, 8 individual labels strip							
	white	UC-WMT (23X4)	0819411	10			
	red	UC-WMT (23X4) RD	0821124	10			
	orange	UC-WMT (23X4) OG	0824118	10			
	yellow	UC-WMT (23X4) YE	0819424	10			
	violet	UC-WMT (23X4) VT	0825363	10			
	blue	UC-WMT (23X4) BU	0821111	10			
	green	UC-WMT (23X4) GN	0824121	10			
	silver	UC-WMT (23X4) SR	0802719	10			
<b>UniCard sheet</b> , with insert strips for PATG and PATO marking collars, for lettering field size 30 x 4 mm, 24-section, 8 individual labels strip							
	white	UC-WMT (30X4)	0819437	10			
	red	UC-WMT (30X4) RD	0821166	10			
	orange	UC-WMT (30X4) OG	0824150	10			
	yellow	UC-WMT (30X4) YE	0819440	10			
	violet	UC-WMT (30X4) VT	0825364	10			
	blue	UC-WMT (30X4) BU	0821153	10			
	green	UC-WMT (30X4) GN	0824163	10			
		Accessories			Accessories		
<b>Magazine</b> , for CMS-P1-PLOTTER		<b>P1 UC-MAG 4</b>	<b>5146105</b>	<b>1</b>	<b>P1 UC-MAG 4</b>	<b>5146105</b>	<b>1</b>

# Marking and labeling - MARKING system

## Conductor and cable marking

### UniCard cable marking for assembly with cable binders

Can be marked using:



UV LED technology



Plotter

PRINTED  
FOR YOU



Markers for cable diameters > 7 mm

- The UC-WMTB ... and UC-WMTBA ... UniCard marking range includes markers that can be secured using standard cable binders
- The markers, which are supplied in uniform sheets, can be marked quickly and easily using the BLUEMARK
- The format automatically ensures printing with a high level of positional accuracy
- For large-surface marking of conductors and cables > 7 mm in diameter
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

**Notes:**  
For more cable markers for fixing with cable binders, visit: [phoenixcontact.net/products](http://phoenixcontact.net/products)  
For corresponding cable binders, see from page 588.

General data	
Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Components	
Cable diameter range	[mm]
Cable cross section range	[mm <sup>2</sup> ]

Technical data	
Can be marked using	BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 120
Components	Free from silicone and halogen
Cable diameter range	> 7
Cable cross section range	> 16

Description	Color
<b>UniCard</b> , for mounting with two cable binders, lettering field size: 44 x 15 mm, 4-section, 1 individual label per strip	
	white
	red
	orange
	yellow
	violet
	blue
	green
	silver
	brown
<b>UniCard</b> , for mounting with one cable binder	
3-section, lettering field size: 52 x 30 mm	white
2-section, lettering field size: 52 x 50 mm	white

Ordering data			
Type	Order No.	Pcs. / Pkt.	
UC-WMTB (44X15)	0828376	10	
UC-WMTB (44X15) RD	0828377	10	
UC-WMTB (44X15) OG	0828378	10	
UC-WMTB (44X15) YE	0828379	10	
UC-WMTB (44X15) VT	0828380	10	
UC-WMTB (44X15) BU	0828381	10	
UC-WMTB (44X15) GN	0828382	10	
UC-WMTB (44X15) SR	0828383	10	
UC-WMTB (44X15) BN	0828384	10	
UC-WMTB (52X30)	5775288	10	
UC-WMTB (52X50)	5775289	10	

Magazine, for CMS-P1-PLOTTER	
P1 UC-MAG 6	5146121

Accessories		
P1 UC-MAG 6	5146121	1



UniCard cable marking for assembly with cable binders

**Notes:**  
 Cable binders can be used for UC-WMTBA... up to a width of 5 mm.  
 For corresponding cable binders, see from page 588.



Markers for cable diameters > 4 mm

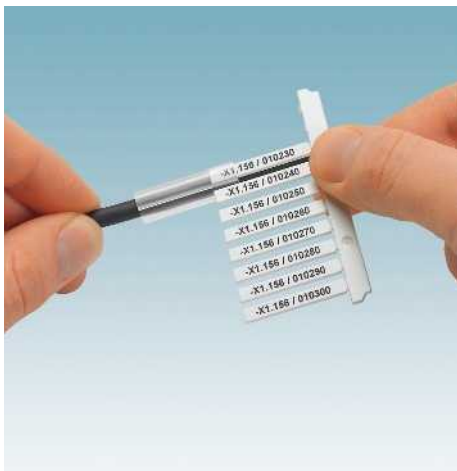


Markers for cable diameters > 6 mm

General data		Technical data			Technical data		
Can be marked using		BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER			BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER		
Material		PA			PA		
Inflammability class according to UL 94		V2			V2		
Temperature range		-40 ... 120 [°C]			-40 ... 120		
Components		Free from silicone and halogen			Free from silicone and halogen		
Cable diameter range		> 4 [mm]			> 6		
Description		Ordering data			Ordering data		
UniCard, for assembly with cable binders, lettering field size 24 x 5 mm, 12-section, 4 individual labels per strip		Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
white	UC-WMTBA (24X5)	0820426	10	UC-WMTBA (29X8)	0820183	10	
red	UC-WMTBA (24X5) RD	0820565	10	UC-WMTBA (29X8) RD	0820604	10	
orange	UC-WMTBA (24X5) OG	0825342	10	UC-WMTBA (29X8) OG	0825345	10	
yellow	UC-WMTBA (24X5) YE	0820439	10	UC-WMTBA (29X8) YE	0820390	10	
violet	UC-WMTBA (24X5) VT	0825344	10	UC-WMTBA (29X8) VT	0825347	10	
blue	UC-WMTBA (24X5) BU	0820552	10	UC-WMTBA (29X8) BU	0820594	10	
green	UC-WMTBA (24X5) GN	0825343	10	UC-WMTBA (29X8) GN	0825346	10	
UC-WMTBA (29X8) SR				0802749		10	
UniCard, for assembly with cable binders, lettering field size 29 x 6 mm, 12-section, 4 individual labels per strip				UC-WMTBA (60X11)	0820468	10	
white				UC-WMTBA (60X11) RD	0820646	10	
red				UC-WMTBA (60X11) OG	0825348	10	
orange				UC-WMTBA (60X11) YE	0820471	10	
yellow				UC-WMTBA (60X11) VT	0825350	10	
violet				UC-WMTBA (60X11) BU	0820633	10	
blue				UC-WMTBA (60X11) GN	0825349	10	
green							
UniCard, for assembly with cable binders, lettering field size 60 x 11 mm, 4-section, 1 individual label per strip							
white							
red							
orange							
yellow							
violet							
blue							
green							
Magazine, for CMS-P1-PLOTTER		Accessories			Accessories		
		P1 UC-MAG 1	5146079	1	P1 UC-MAG 1	5146079	1

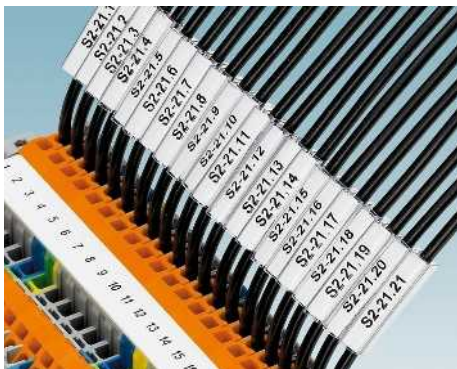
## Conductor and cable marking

### UniCard conductor marking for marking collars



- The UCT-WMT ... UniCard marking range includes markers for conductor marking with marking collars from the PATG/PATO ... system; see page 214
- The markers, which are supplied in uniform sheets, can be marked quickly and easily using the BLUEMARK, TOPMARK LASER, and THERMOMARK CARD
- The format automatically ensures printing with a high level of positional accuracy
- Marked insert strips are simply inserted into the collars. This protects the marking against contamination
- To simplify mounting, the insert labels are arranged on UniCard sheets so that they can be separated branch by branch
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

**Notes:**  
PATG/PATO ... system, see page 214.



Can be marked using:



Thermal transfer for sheets and cards



UV LED technology



Direct laser marking

PRINTED  
FOR YOU



Marker with lettering field size from 10 x 4 mm to 18 x 4 mm

General data	
Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Components	

Technical data	
THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED • TOPMARK LASER	
PC V0	
V0	
-40 ... 120	
Free from silicone and halogen	

Description	Color
UniCard, with insert strips for PATG and PATO marking collars, with lettering field size 10 x 4 mm, 60-section	white
	red
	orange
	yellow
	violet
	blue
	green

UniCard, with insert strips for PATG and PATO marking collars, with lettering field size 12 x 4 mm, 50-section	white
	red
	orange
	yellow
	violet
	blue
	green

UniCard, with insert strips for PATG and PATO marking collars, with lettering field size 15 x 4 mm, 50-section	white
	red
	orange
	yellow
	violet
	blue
	green

UniCard, with insert strips for PATG and PATO marking collars, with lettering field size 18 x 4 mm, 40-section	white
	red
	orange
	yellow
	violet
	blue
	green

Ordering data		
Type	Order No.	Pcs. / Pkt.
UCT-WMT (10X4)	0801430	10
UCT-WMT (10X4) RD	0801433	10
UCT-WMT (10X4) OG	0801434	10
UCT-WMT (10X4) YE	0801431	10
UCT-WMT (10X4) VT	0801436	10
UCT-WMT (10X4) BU	0801437	10
UCT-WMT (10X4) GN	0801435	10
UCT-WMT (12X4)	0801438	10
UCT-WMT (12X4) RD	0801440	10
UCT-WMT (12X4) OG	0801441	10
UCT-WMT (12X4) YE	0801439	10
UCT-WMT (12X4) VT	0801443	10
UCT-WMT (12X4) BU	0801444	10
UCT-WMT (12X4) GN	0801442	10
UCT-WMT (15X4)	0801446	10
UCT-WMT (15X4) RD	0801448	10
UCT-WMT (15X4) OG	0801449	10
UCT-WMT (15X4) YE	0801447	10
UCT-WMT (15X4) VT	0801451	10
UCT-WMT (15X4) BU	0801452	10
UCT-WMT (15X4) GN	0801450	10
UCT-WMT (18X4)	0801462	10
UCT-WMT (18X4) RD	0801464	10
UCT-WMT (18X4) OG	0801465	10
UCT-WMT (18X4) YE	0801463	10
UCT-WMT (18X4) VT	0801467	10
UCT-WMT (18X4) BU	0801468	10
UCT-WMT (18X4) GN	0801466	10

Magazine, for THERMOMARK CARD ..., for accommodating UCT-WMT ... sheets, UCT-EM (17X10)

Accessories		
THERMOMARK CARD-UCT-MAG7	0801734	1

UniCard conductor marking for marking collars



Marker with lettering field size 23 x 4 mm/30 x 4 mm

General data		Technical data		
Can be marked using		THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED • TOPMARK LASER		
Material		PC V0		
Inflammability class according to UL 94		V0		
Temperature range	[°C]	-40 ... 120		
Components		Free from silicone and halogen		
Description		Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard, with insert strips for PATG and PATO marking collars, with lettering field size 23 x 4 mm	white	UCT-WMT (23X4)	0801453	10
	red	UCT-WMT (23X4) RD	0801455	10
	orange	UCT-WMT (23X4) OG	0801456	10
	yellow	UCT-WMT (23X4) YE	0801454	10
	violet	UCT-WMT (23X4) VT	0801459	10
	blue	UCT-WMT (23X4) BU	0801460	10
	green	UCT-WMT (23X4) GN	0801457	10
UniCard, with insert strips for PATG and PATO marking collars, with lettering field size 30 x 4 mm	white	UCT-WMT (30X4)	0801422	10
	red	UCT-WMT (30X4) RD	0801424	10
	orange	UCT-WMT (30X4) OG	0801425	10
	yellow	UCT-WMT (30X4) YE	0801423	10
	violet	UCT-WMT (30X4) VT	0801427	10
	blue	UCT-WMT (30X4) BU	0801428	10
	green	UCT-WMT (30X4) GN	0801426	10
Magazine, for THERMOMARK CARD ..., for accommodating UCT-WMT ... sheets, UCT-EM (17X10)		Accessories		
		THERMOMARK CARD-UCT-MAG7	0801734	1

## Conductor and cable marking

### UniCard slide-on conductor marking

Can be marked using:



Thermal transfer for sheets and cards



UV LED technology



Direct laser marking

PRINTED  
FOR YOU



Marker for conductor diameters of 1.5 to 4.7 mm

- The UCT-WMS ... UniCard marking range includes markers that can be slid onto conductors
- The markers, which are supplied in uniform sheets, can be marked quickly and easily using the TOPMARK LASER, THERMOMARK CARD, and the BLUEMARK CLED
- The format automatically ensures printing with a high level of positional accuracy
- The markers support multiline marking
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

#### General data

Can be marked using

Material

Inflammability class according to UL 94

Temperature range

[°C]

Components

Description	Color
<b>UniCard</b> , for marking conductors with a diameter of 1.5 - 3.2 mm	
55-section, lettering field size: 12 x 4 mm	white yellow
45-section, lettering field size: 12 x 5.5 mm, for conductors with a diameter of 2.5 - 4.7 mm	white yellow

**Magazine**, for THERMOMARK CARD ..., for accommodating: UCT-WMS ...

#### Technical data

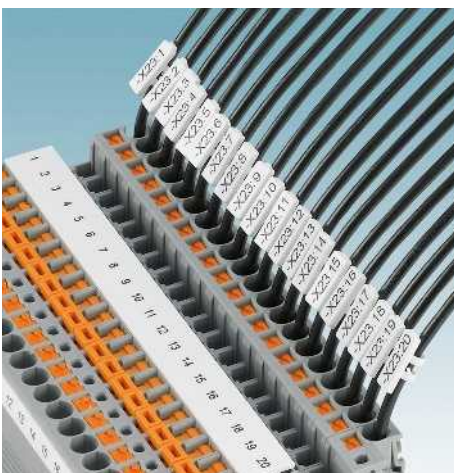
THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED • TOPMARK LASER  
PC V0  
V0  
-40 ... 120  
Free from silicone and halogen

#### Ordering data

Type	Order No.	Pcs. / Pkt.
<b>UCT-WMS 3,2 (12X4)</b>	<b>0828570</b>	8
<b>UCT-WMS 3,2 (12X4) YE</b>	<b>0828572</b>	8
<b>UCT-WMS 4,7 (12X5,5)</b>	<b>0828571</b>	6
<b>UCT-WMS 4,7 (12X5,5) YE</b>	<b>0828573</b>	6

#### Accessories

<b>THERMOMARK CARD-UCT-MAG3</b>	<b>5146613</b>	1
---------------------------------	----------------	---





### Clip-on UniCard conductor marking

Can be marked using:



Thermal transfer for sheets and cards



UV LED technology



Direct laser marking

PRINTED  
FOR YOU



Markers for conductor diameters from 2 to 4.7 mm

- The UCT-WMCO ... UniCard marking range includes markers for the subsequent marking of conductors by clipping on
- Secure tight fit even in the event of vibrations
- The markers, which are supplied in uniform sheets, can be marked quickly and easily with the TOPMARK LASER, THERMOMARK CARD, and the BLUEMARK... printers
- The format automatically ensures printing with a high level of positional accuracy
- Large-surface marking in a space-saving design
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

#### General data

Can be marked using

Material

Inflammability class according to UL 94

Temperature range

[°C]

Wipe resistance

Components

#### Technical data

THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED • TOPMARK LASER

PC

V0

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

free from silicone, halogen, and cadmium

#### Ordering data

Description	Color
<b>UniCard</b> , for subsequent marking of conductors, conductor diameter 2 - 2.9 mm Lettering field size: 12 x 4 mm	white
	yellow
Lettering field size: 18 x 4 mm	white
	yellow
<b>UniCard</b> , for subsequent marking of conductors, conductor diameter 2.9 - 3.5 mm Lettering field size: 12 x 4 mm	white
	yellow
Lettering field size: 18 x 4 mm	white
	yellow
<b>UniCard</b> , for subsequent marking of conductors, conductor diameter 3.5 - 4.1 mm Lettering field size: 12 x 4 mm	white
	yellow
Lettering field size: 18 x 4 mm	white
	yellow
<b>UniCard</b> , for subsequent marking of conductors, conductor diameter 4.1 - 4.7 mm Lettering field size: 12 x 4 mm	white
	yellow
Lettering field size: 18 x 4 mm	white
	yellow

Type	Order No.	Pcs. / Pkt.
<b>UCT-WMCO 2,9 (12X4)</b>	0830780	9
<b>UCT-WMCO 2,9 (12X4) YE</b>	0831204	9
<b>UCT-WMCO 2,9 (18X4)</b>	0830781	9
<b>UCT-WMCO 2,9 (18X4) YE</b>	0831205	9
<b>UCT-WMCO 3,5 (12X4)</b>	0830782	7
<b>UCT-WMCO 3,5 (12X4) YE</b>	0831206	7
<b>UCT-WMCO 3,5 (18X4)</b>	0830783	7
<b>UCT-WMCO 3,5 (18X4) YE</b>	0831207	7
<b>UCT-WMCO 4,1 (12X4)</b>	0830784	6
<b>UCT-WMCO 4,1 (12X4) YE</b>	0831208	6
<b>UCT-WMCO 4,1 (18X4)</b>	0830785	6
<b>UCT-WMCO 4,1 (18X4) YE</b>	0831209	6
<b>UCT-WMCO 4,7 (12X4)</b>	0830786	6
<b>UCT-WMCO 4,7 (12X4) YE</b>	0831210	6
<b>UCT-WMCO 4,7 (18X4)</b>	0830787	6
<b>UCT-WMCO 4,7 (18X4) YE</b>	0831211	6

**Magazine**, for THERMOMARK CARD ...,

for accommodating: UCT-WMCO...(12 x 4)

**Magazine** for the THERMOMARK CARD printer,

for accommodating: UCT sheets (UCT-WMCO...(18 x 4))

#### Accessories

<b>THERMOMARK CARD-UCT-MAG25</b>	0802935	1
<b>THERMOMARK CARD-UCT-MAG28</b>	0803205	1



## Conductor and cable marking

### UniCard cable marking for assembly with cable binders

Can be marked using:



Thermal transfer for sheets and cards



UV LED technology



Direct laser marking

PRINTED  
FOR YOU



Markers for cable diameters > 5mm

- The UCT-WMTBA ... UniCard marking range includes markers that can be secured using standard cable binders
- The markers, which are supplied in uniform sheets, can be marked quickly, easily, and precisely using the TOPMARK LASER, THERMOMARK CARD, and the BLUEMARK ...
- The format automatically ensures printing with a high level of positional accuracy
- For large-surface marking of conductors and cables > 5 mm in diameter
- The sheets provide space to include function texts
- Thanks to their angular shape, the markers fit perfectly onto cables
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

#### Notes:

For cable binders up to 5 mm wide.

For matching cable binders, see page 588 onwards or the product area on our website at [phoenixcontact.net/products](http://phoenixcontact.net/products).

#### General data

Can be marked using

Material

Inflammability class according to UL 94

Temperature range

[°C]

Components

#### Technical data

THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED • TOPMARK LASER

PC

V0

-40 ... 120

free from silicone, halogen, and cadmium

#### Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
<b>UniCard</b> , for assembly with cable binders, for conductor diameters > 5 mm, 15-section, 5 individual labels per strip				
Lettering field size: 24 x 4 mm	white	<b>UCT-WMTBA (24X4)</b>	<b>1014082</b>	10
	yellow	<b>UCT-WMTBA (24X4) YE</b>	<b>1014083</b>	10
<b>UniCard</b> , for assembly with cable binders, for conductor diameters > 6 mm, 12-section, 4 individual labels per strip				
Lettering field size: 29 x 6 mm	white	<b>UCT-WMTBA (29X6)</b>	<b>1014084</b>	10
	yellow	<b>UCT-WMTBA (29X6) YE</b>	<b>1014085</b>	10
<b>UniCard</b> , for assembly with cable binders, for conductor diameters > 6 mm, 3-section, 1 individual label per strip				
Lettering field size: 40 x 17 mm	white	<b>UCT-WMTBA (40X17)</b>	<b>1014086</b>	10
Lettering field size: 40 x 17 mm	white	<b>UCT-WMTBA (40X17)</b>	<b>1014086</b>	10

**Magazine**, for THERMOMARK CARD ..., for accommodating: UCT-WMTBA ...

#### Accessories

Accessories	Order No.	Pcs. / Pkt.
<b>THERMOMARK CARD-UCT-MAG27</b>	<b>0802989</b>	1

new

UniCard cable marking for assembly with cable binders

Can be marked using:



Thermal transfer for sheets and cards



UV LED technology



Direct laser marking



Markers for cable diameters > 2.9 mm

- The UCT-WMTB ... UniCard marking range includes markers that can be secured using standard cable binders
- The markers, which are supplied in uniform sheets, can be marked quickly, easily, and precisely using the TOPMARK LASER, THERMOMARK CARD, and the BLUEMARK ...
- The format automatically ensures printing with a high degree of positioning accuracy
- For large-surface marking of conductors and cables > 2.9 mm in diameter
- The sheets provide space to include function texts
- Due to the lateral notches for the cable binders, the markers optimally adjust to smaller cable and conductor diameters > 2.9 mm
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

General data	
Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Components	

Technical data	
THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED • TOPMARK LASER	
PC V0	
V0	
-40 ... 120	
Free from silicone and halogen	

Description	Color
<b>UniCard</b> , for assembly with cable binders, for conductor diameters > 2.9 mm, 6-section, 1 individual label per strip	
Lettering field size: 29 x 8 mm	white
Lettering field size: 29 x 8 mm	blue
Lettering field size: 29 x 8 mm	green
Lettering field size: 29 x 8 mm	red
Lettering field size: 29 x 8 mm	gray
Lettering field size: 29 x 8 mm	yellow

Ordering data		
Type	Order No.	Pcs. / Pkt.
UCT-WMTB (29X8)	0803321	10
UCT-WMTB (29X8) BU	0803324	10
UCT-WMTB (29X8) GN	0803325	10
UCT-WMTB (29X8) RD	0803323	10
UCT-WMTB (29X8) GY	0803326	10
UCT-WMTB (29X8) YE	0803322	10

Magazine, for THERMOMARK CARD ...	
for accommodating UCT-EM (10 x 7), UCT-WMTB (29 x 8)	

Accessories		
THERMOMARK CARD-UCT-MAG20	0830751	1

**Notes:**  
For matching cable binders, see page 588 onwards or the product area on our website at phoenixcontact.net/products.

# Marking and labeling - MARKING system

## Conductor and cable marking

### UniSheet conductor marking for marking collars



- The US-WMT ... UniSheet marking range includes markers for conductor marking with marking collars from the PATG/PATO ... system
- The markers, which are supplied as uniform cards, can be printed onto quickly, easily, and cost-effectively using the THERMOMARK CARD
- Marked insert strips are simply inserted into the collars. This protects the marking against contamination
- The perforated marking strips are easy to separate and can be easily fitted
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all UniSheet markers in accordance with your requirements

**Notes:**  
For PATG/PATO... system marking collars, see page 214.

Can be marked using:



Thermal transfer for sheets and cards

PRINTED  
FOR YOU



Marker with lettering field size 10 x 4 mm

General data	
Can be marked using	
Number of individual labels	112
Number of individual labels per strip	14
Material	PVC
Inflammability class according to UL 94	V0
Temperature range	-30 ... 80 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Silicone-free

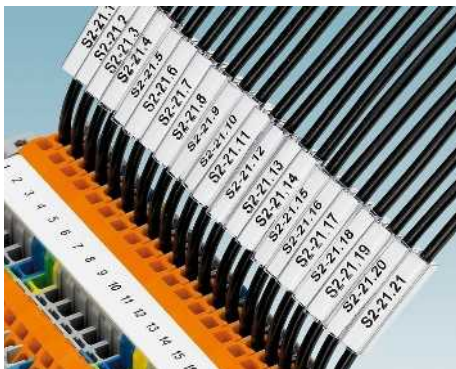
Technical data		
THERMOMARK CARD		
112		
14		
PVC		
V0		
-30 ... 80		
DIN EN 61010-1 (VDE 0411-1)		
Silicone-free		

Description	Color
UniSheet, with insert strips for PATG and PATO marking collars, 112-section, lettering field size 10 x 4 mm	
	white
	red
	orange
	yellow
	violet
	blue
	green

Ordering data		
Type	Order No.	Pcs. / Pkt.
US-WMT (10X4)	0828765	10
US-WMT (10X4) RD	0829273	10
US-WMT (10X4) OG	0829274	10
US-WMT (10X4) YE	0828952	10
US-WMT (10X4) VT	0829276	10
US-WMT (10X4) BU	0829277	10
US-WMT (10X4) GN	0829278	10

Magazine, for THERMOMARK CARD..., for accommodating all US-materials

Accessories		
Type	Order No.	Pcs. / Pkt.
THERMOMARK CARD-US-MAG1	5146451	1



UniSheet conductor marking for marking collars

PRINTED  
FOR YOU



Marker with lettering field size  
12 x 4 to 30 x 4 mm

Technical data

General data	
Can be marked using	THERMOMARK CARD
Number of individual labels per strip	14
Material	PVC
Inflammability class according to UL 94	V0
Temperature range	-30 ... 80 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Silicone-free

Ordering data

Type	Order No.	Pcs. / Pkt.
<b>UniSheet, with insert strips for PATG and PATO marking collars, 96-section, lettering field size 12 x 4 mm</b>		
white US-WMT (12X4)	0828766	10
red US-WMT (12X4) RD	0829280	10
orange US-WMT (12X4) OG	0829281	10
yellow US-WMT (12X4) YE	0828953	10
violet US-WMT (12X4) VT	0829283	10
blue US-WMT (12X4) BU	0829284	10
green US-WMT (12X4) GN	0829285	10
<b>UniSheet, with insert strips for PATG and PATO marking collars, 84-section, lettering field size 15 x 4 mm</b>		
white US-WMT (15X4)	0828767	10
red US-WMT (15X4) RD	0829287	10
orange US-WMT (15X4) OG	0829288	10
yellow US-WMT (15X4) YE	0828954	10
violet US-WMT (15X4) VT	0829290	10
blue US-WMT (15X4) BU	0829291	10
green US-WMT (15X4) GN	0829292	10
<b>UniSheet, with insert strips for PATG and PATO marking collars, 70-section, lettering field size 18 x 4 mm</b>		
white US-WMT (18X4)	0828768	10
red US-WMT (18X4) RD	0829294	10
orange US-WMT (18X4) OG	0829295	10
yellow US-WMT (18X4) YE	0828955	10
violet US-WMT (18X4) VT	0829297	10
blue US-WMT (18X4) BU	0829298	10
green US-WMT (18X4) GN	0829299	10
<b>UniSheet, with insert strips for PATG and PATO marking collars, 56-section, lettering field size 23 x 4 mm</b>		
white US-WMT (23X4)	0828769	10
red US-WMT (23X4) RD	0829301	10
orange US-WMT (23X4) OG	0829302	10
yellow US-WMT (23X4) YE	0828956	10
violet US-WMT (23X4) VT	0829304	10
blue US-WMT (23X4) BU	0829305	10
green US-WMT (23X4) GN	0829306	10
<b>UniSheet, with insert strips for PATG and PATO marking collars, 42-section, lettering field size 30 x 4 mm</b>		
white US-WMT (30X4)	0828770	10
red US-WMT (30X4) RD	0829308	10
orange US-WMT (30X4) OG	0829309	10
yellow US-WMT (30X4) YE	0828957	10
violet US-WMT (30X4) VT	0829311	10
blue US-WMT (30X4) BU	0829312	10
green US-WMT (30X4) GN	0829313	10

# Marking and labeling - MARKING system

## Conductor and cable marking

### UniSheet conductor marking for assembly with cable binders

Can be marked using:



Thermal transfer for sheets and cards

PRINTED  
FOR YOU



Marker for conductor diameters > 13 mm

- The US-WMTB... UniSheet marking range includes markers that can be secured using standard cable binders
- The markers, which are supplied in uniform sheets, can be printed onto quickly, easily, and cost-effectively using the THERMOMARK CARD
- The perforated marking strips are easy to separate and can be easily fitted
- The sheets provide space to include function texts

**Notes:**  
For corresponding cable binders, see from page 588.

General data	
Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data	
THERMOMARK CARD	
PVC	
V0	
-30 ... 80	[°C]
DIN EN 61010-1 (VDE 0411-1)	
Silicone-free	

Description	Color
<b>UniSheet</b> , with markers for attachment using cable binders, for a conductor diameter $\geq$ 13 mm	
35-section, lettering field size: 24 x 5 mm	white
	red
	orange
	yellow
	violet
	blue
	green
24-section, lettering field size: 29 x 8 mm, for conductor diameter $\geq$ 13 mm	white
	red
	orange
	yellow
	violet
	blue
	green
12-section, lettering field size: 44 x 15 mm, for conductor diameter $\geq$ 13 mm	white
	red
	orange
	yellow
	violet
	blue
	green

Ordering data			
Type	Order No.	Pcs. / Pkt.	
US-WMTB (24X5)	0828771	10	
US-WMTB (24X5) RD	0829320	10	
US-WMTB (24X5) OG	0829321	10	
US-WMTB (24X5) YE	0828958	10	
US-WMTB (24X5) VT	0829323	10	
US-WMTB (24X5) BU	0829324	10	
US-WMTB (24X5) GN	0829325	10	
US-WMTB (29X8)	0828772	10	
US-WMTB (29X8) RD	0829327	10	
US-WMTB (29X8) OG	0829328	10	
US-WMTB (29X8) YE	0828959	10	
US-WMTB (29X8) VT	0829330	10	
US-WMTB (29X8) BU	0829331	10	
US-WMTB (29X8) GN	0829332	10	
US-WMTB (44X15)	0828773	10	
US-WMTB (44X15) RD	0829334	10	
US-WMTB (44X15) OG	0829335	10	
US-WMTB (44X15) YE	0828960	10	
US-WMTB (44X15) VT	0829337	10	
US-WMTB (44X15) BU	0829338	10	
US-WMTB (44X15) GN	0829339	10	

**Magazine**, for THERMOMARK CARD..., for accommodating all US-materials

Accessories		
THERMOMARK CARD-US-MAG1	5146451	1



### Self-adhesive conductor marking with transparent protective foil

Can be marked using:

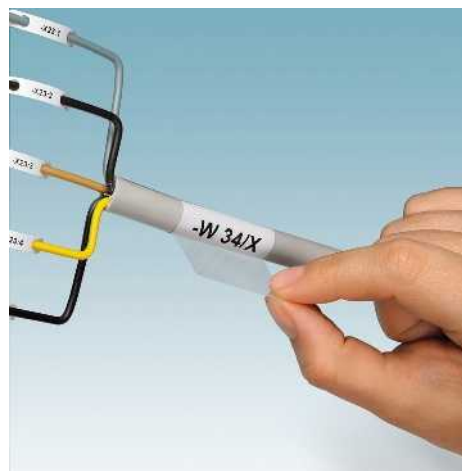


Thermal transfer for sheets and cards

PRINTED  
FOR YOU



Marker for conductor diameters of up to 36 mm



- The US-WML ... cable marker labels consist of a marking field and a transparent protective foil
- The protective foil is wound over the marking and provides permanent protection against dirt and abrasion
- The cable marker labels do not increase the cross section of the cable, allowing the cable to be subsequently drawn through cable ducts, for example
- The markers, which are supplied in uniform sheets, can be printed onto quickly, easily, and cost-effectively using the THERMOMARK CARD
- Quick and easy handling
- Resistant to solvents

#### General data

Can be marked using	THERMOMARK CARD
Material	PVC
Temperature range	-50 ... 110 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Silicone-free

#### Description

##### Cable marker labels

Description	Color
32-section, lettering field size: 13 x 13 mm, conductor diameter < 6.0 mm	white
8-section, lettering field size: 19 x 25 mm, conductor diameter < 14.0 mm	white
4-section, lettering field size: 25 x 25 mm, conductor diameter < 36.0 mm	white

**Magazine**, for THERMOMARK CARD..., for accommodating all US-materials

#### Technical data

#### Ordering data

Type	Order No.	Pcs. / Pkt.
US-WML 6 (13X13)	0800472	10
US-WML 14 (25X19)	0800473	10
US-WML 36 (25X25)	0800474	10

#### Accessories

THERMOMARK CARD-US-MAG1	5146451	1
-------------------------	---------	---



# Marking and labeling - MARKING system

## Conductor and cable marking

### Self-adhesive conductor marking with transparent protective foil

Can be marked using:



Office laser printing



Marker for conductor diameter up to 36 mm

- WML ... cable marker labels consist of a marking field and a transparent protective foil
- The protective foil is wound over the marking and provides permanent protection against dirt and abrasion
- The cable marker labels do not increase the cross section of the cable, allowing the cable to be subsequently drawn through cable ducts, for example
- Quick and easy handling
- Resistant to solvents

**Notes:**  
Print image may vary depending on laser printer

General data	
Can be marked using	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data	
- Office printing systems	
Polyester	
-40 ... 150	
DIN EN 61010-1 (VDE 0411-1)	
Free from halogen and cadmium	

Description	Color
<b>Cable marker labels, sheet format: A4, self-adhesive</b>	
1 sheet = 168 labels, up to 3.0 mm Ø	white
1 sheet = 168 labels, up to 3.0 mm Ø	yellow
1 sheet = 77 labels, up to 5.0 mm Ø	white
1 sheet = 77 labels, up to 5.0 mm Ø	yellow
1 sheet = 56 labels, up to 7.5 mm Ø	white
1 sheet = 56 labels, up to 7.5 mm Ø	yellow
1 sheet = 28 labels, up to 14 mm Ø	white
1 sheet = 28 labels, up to 14 mm Ø	yellow
1 sheet = 10 labels, up to 22 mm Ø	white
1 sheet = 10 labels, up to 22 mm Ø	yellow
1 sheet = 14 labels, up to 36 mm Ø	white
1 sheet = 14 labels, up to 36 mm Ø	yellow

Ordering data		
Type	Order No.	Pcs. / Pkt.
<b>WML 3 (13X10)A4</b>	<b>0830687</b>	10
<b>WML 3 (13X10)A4 YE</b>	<b>0830688</b>	10
<b>WML 5 (25X10)A4</b>	<b>0830689</b>	10
<b>WML 5 (25X10)A4 YE</b>	<b>0830690</b>	10
<b>WML 7,5 (25X13)A4</b>	<b>0830691</b>	10
<b>WML 7,5 (25X13)A4 YE</b>	<b>0830692</b>	10
<b>WML 14 (25X19)A4</b>	<b>0830693</b>	10
<b>WML 14 (25X19)A4 YE</b>	<b>0830694</b>	10
<b>WML 22 (35X25)A4</b>	<b>0830695</b>	10
<b>WML 22 (35X25)A4 YE</b>	<b>0830696</b>	10
<b>WML 36 (25X38)A4</b>	<b>0830697</b>	10
<b>WML 36 (25X38)A4 YE</b>	<b>0830698</b>	10





### Self-adhesive conductor marking with transparent protective foil

Can be marked using:



Thermal transfer for rolls



PRINTED  
FOR YOU



Marker for conductor diameters of up to 46 mm

- The cable marker labels consist of a marking field and a transparent protective foil
- The protective foil is wound over the marking and provides permanent protection against dirt and abrasion
- The cable marker labels do not increase the cross section of the cable, allowing the cable to be subsequently drawn through cable ducts, for example
- Quick and easy handling
- Resistant to solvents

### Radio-frequency identification, RFID

- The WML-RFID/HF conductor markers are also equipped with an integrated high-frequency transponder and are used for contact-free identification, data exchange, and localization using an RFID handheld device

#### Notes:

Due to the wide variety of cable and conductor types, the transponder function must always be checked by the end customer.

WML-RFID/HF conductor markers cannot be marked by the THERMOMARK S1.1 and THERMOMARK X1.1.

#### General data

Can be marked using

Material

Temperature range

Wipe resistance

Components

[°C]

#### Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1

PVC

-50 ... 110

DIN EN 61010-1 (VDE 0411-1)

Silicone-free

#### Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
<b>Cable marker labels</b>				
5000 labels, up to 3 mm Ø	white	WML 3 (13X10)R	0800073	1
3000 labels, up to 5 mm Ø	white	WML 5 (25X10)R	0817523	1
3000 labels, up to 5 mm Ø	yellow	WML 5 (25X10)R YE	0830673	1
7000 labels, up to 6 mm Ø	white	WML 6 (13X13)R	0816252	1
7000 labels, up to 6 mm Ø	yellow	WML 6 (13X13)R YE	0830674	1
4000 labels, up to 7.5 mm Ø	white	WML 7,5 (13X13)R	0800074	1
1500 labels, up to 7.5 mm Ø	white	WML 7,5 (17X9)R	0828444	1
2100 labels, up to 7.5 mm Ø	white	WML 7,5 (25X13)R	0800075	1
1000 labels, up to 12 mm Ø	white	WML 12 (25X19)R	0800076	1
1500 labels, up to 14 mm Ø	white	WML 14 (25X19)R	0817536	1
1500 labels, up to 14 mm Ø	yellow	WML 14 (25X19)R YE	0817549	1
1000 labels, up to 14 mm Ø	white	WML 14 (38X19)R	0817552	1
1500 labels, up to 14 mm Ø	yellow	WML 14 (38X19)R YE	0830675	1
2500 labels, up to 18 mm Ø	white	WML 18 (12X12)R	0817507	1
500 labels, up to 20 mm Ø	white	WML 20 (31X25)R	0828457	1
900 labels, up to 22 mm Ø	white	WML 22 (25X25)R	0800078	1
500 labels, up to 36 mm Ø	white	WML 36 (25X38)R	0817510	1
250 labels, up to 46 mm Ø	white	WML 46 (25X38)R	0800067	1
<b>Cable marker labels, on large roll</b>				
10,000 labels, up to 5 mm Ø	white	WML 5 (25X10)RL	0830676	1
15,000 labels, up to 6 mm Ø	white	WML 6 (13X13)RL	0830677	1
5000 labels, up to 14 mm Ø	white	WML 14 (25X19)RL	0830678	1
3000 labels, up to 14 mm Ø	white	WML 14 (38X19)RL	0830679	1
<b>Cable marker labels, with integrated HF transponder</b>				
900 labels, min. 6 mm to 14 mm Ø	white	WML-RFID/HF 14 (25X19)R	0803386	1



# Marking and labeling - MARKING system

## Conductor and cable marking

### Self-adhesive conductor marking with transparent protective foil, halogen-free



- The halogen-free cable marker labels consist of a marking field and a transparent protective foil
- The protective foil is wound over the marking and provides permanent protection against dirt and abrasion
- The cable marker labels do not increase the cross section of the cable, allowing the cable to be subsequently drawn through cable ducts, for example
- High-quality marking image created by thermal transfer printing
- Quick and easy handling
- Resistant to solvents

Can be marked using:



Thermal transfer for rolls

PRINTED  
FOR YOU



Marker for conductor diameter up to 36 mm

#### General data

Can be marked using

Material

Temperature range

Wipe resistance

Components

[°C]

#### Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1  
Polyethylene  
-40 ... 100  
DIN EN 61010-1 (VDE 0411-1)  
Free from silicone and halogen

#### Ordering data

Description	Color
<b>Cable marker labels, halogen-free</b>	
5000 labels, up to 3 mm Ø	white
5000 labels, up to 3 mm Ø	yellow
3000 labels, up to 5 mm Ø	white
3000 labels, up to 5 mm Ø	yellow
2100 labels, up to 7.5 mm Ø	white
2100 labels, up to 7.5 mm Ø	yellow
1500 labels, up to 14 mm Ø	white
1500 labels, up to 14 mm Ø	yellow
900 labels, up to 22 mm Ø	white
900 labels, up to 22 mm Ø	yellow
500 labels, up to 36 mm Ø	white
500 labels, up to 36 mm Ø	yellow

Type	Order No.	Pcs. / Pkt.
WML HF 3(13X10)R	0830812	1
WML HF 3(13X10)R YE	0830813	1
WML HF 5(25X10)R	0830814	1
WML HF 5(25X10)R YE	0830815	1
WML HF 7,5(25X13)R	0830816	1
WML HF 7,5(25X13)R YE	0830817	1
WML HF 14(25X19)R	0830818	1
WML HF 14(25X19)R YE	0830819	1
WML HF 22(25X25)R	0830820	1
WML HF 22(25X25)R YE	0830821	1
WML HF 36(25X38)R	0830822	1
WML HF 36(25X38)R YE	0830823	1



**Self-adhesive conductor marking as a flag, vertical**



The WML-FLAGV... conductor marking flags support large-surface marking of conductors with a diameter of up to 6 mm perpendicular to the conductor direction. They are characterized by:

- Can be printed on both sides
- High-quality marking image created by thermal transfer printing
- Quick and easy handling
- Resistant to solvents

PRINTED  
FOR YOU



Marker for conductor diameter up to 6 mm

**General data**

Can be marked using

Material

Temperature range

[°C]

Wipe resistance

Components

**Technical data**

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1

Polyolefine

-40 ... 60

DIN EN 61010-1 (VDE 0411-1)

Free from halogen and cadmium

Description

Color

Cable marking flags

up to 6 mm Ø, lettering field size: 20 x 10 mm,  
2500 labels per roll

white

up to 6 mm Ø, lettering field size: 30 x 10 mm,  
2500 labels per roll

white

**Ordering data**

Type	Order No.	Pcs. / Pkt.
WML-FLAG 6 (20X10)R	0830711	1
WML-FLAG 6 (30X10)R	0830712	1

**Self-adhesive conductor marking as a flag, horizontal**



The WML-FLAG... conductor marking flags support large-surface marking of conductors with a diameter of up to 6 mm parallel to the conductor direction. They are characterized by:

- Can be printed on both sides
- High-quality marking image created by thermal transfer printing
- Quick and easy handling
- Resistant to solvents

PRINTED  
FOR YOU



Marker for conductor diameter up to 6 mm

**General data**

Can be marked using

Material

Temperature range

[°C]

Wipe resistance

Components

**Technical data**

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1

Polyolefine

-40 ... 60

DIN EN 61010-1 (VDE 0411-1)

Free from halogen and cadmium

Description

Color

Cable marking flags

up to 6 mm Ø, lettering field size: 20 x 10 mm,  
2500 labels per roll

white

up to 6 mm Ø, lettering field size: 30 x 10 mm,  
2500 labels per roll

white

**Ordering data**

Type	Order No.	Pcs. / Pkt.
WML-FLAGV 6 (20X10)R	0830713	1
WML-FLAGV 6 (30X10)R	0830714	1

## Conductor and cable marking

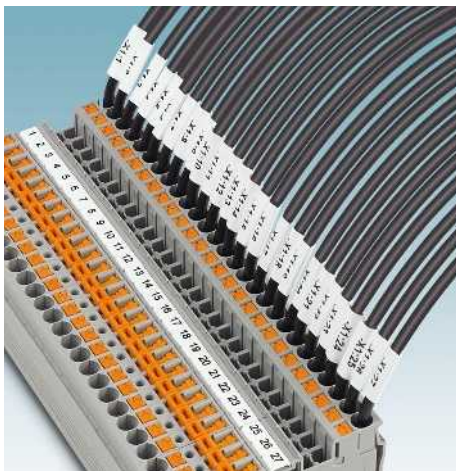
### Pre-assembled shrink sleeves, halogen-free



- WMS-2 HF... shrink sleeves provide permanent and captive conductor and cable marking
- The material is offered pre-assembled in a handy conductor format
- Up to four separate markers are secured per row on a carrier material and can each be removed separately
- The conductor is fed through the sleeve and can be fixed by shrinking the sleeve, if desired
- The shrink sleeves also provide electrical insulation and mechanical protection
- The shrink rate is 2:1
- The shrink sleeves can be printed on one side
- The standards DIN EN 45545-2 and NFPA 130:2007 are met

#### Notes:

The 110-WMTB HF ink ribbon is required for marking WMS-2 HF shrink sleeves, see Printer, Page 36.



Can be marked using:



Thermal transfer for rolls

PRINTED  
FOR YOU



Conductor diameter from 1.2 to 38 mm,  
white and yellow

#### General data

Can be marked using

Material

Temperature range

Wipe resistance

Components

Shrink rate

[°C]

#### Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 •  
THERMOMARK X1.1 • THERMOMARK X1.2

Polyolefine

-30 ... 105

DIN EN 61010-1 (VDE 0411-1)

Halogen-free

2:1

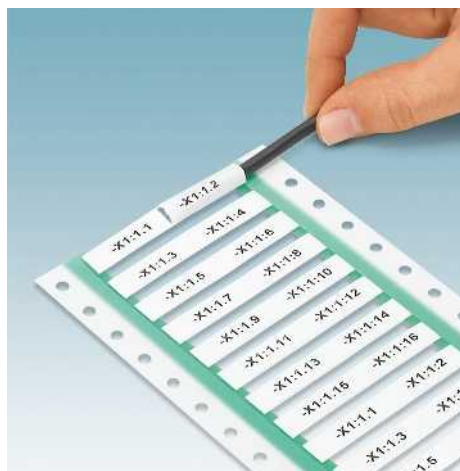
#### Ordering data

Description	Color
<b>Shrink sleeve, for conductor diameter of 1.2 - 2.4 mm</b>	
1 roll = 4000 markers, each 15 mm long	white
	yellow
1 roll = 2000 markers, each 30 mm long	white
	yellow
1 roll = 1000 markers, each 60 mm long	white
	yellow
<b>Shrink sleeve, for conductor diameter of 1.5 - 3.2 mm</b>	
1 roll = 4000 markers, each 15 mm long	white
	yellow
1 roll = 2000 markers, each 30 mm long	white
	yellow
1 roll = 1000 markers, each 60 mm long	white
	yellow
<b>Shrink sleeve, for conductor diameter of 2.4 - 4.8 mm</b>	
1 roll = 4000 markers, each 15 mm long	white
	yellow
1 roll = 2000 markers, each 30 mm long	white
	yellow
1 roll = 1000 markers, each 60 mm long	white
	yellow
<b>Shrink sleeve, for conductor diameter of 3.2 - 6.4 mm</b>	
1 roll = 2000 markers, each 30 mm long	white
	yellow
1 roll = 1000 markers, each 60 mm long	white
	yellow
<b>Shrink sleeve, for conductor diameter of 4.8 - 9.5 mm</b>	
1 roll = 4000 markers, each 15 mm long	white
1 roll = 2000 markers, each 30 mm long	white
	yellow
1 roll = 1000 markers, each 60 mm long	white
	yellow
<b>Shrink sleeve, for conductor diameter of 6.4 - 12.7 mm</b>	
1 roll = 1000 markers, each 60 mm long	white
	yellow
<b>Shrink sleeve, for conductor diameter of 9.5 - 19.1 mm</b>	
1 roll = 1000 markers, each 60 mm long	white
	yellow
<b>For conductor diameter of 12.7 - 25.4 mm</b>	
1 roll = 1000 markers, each 60 mm long	white
	yellow
<b>For conductor diameter of 19.1 - 38.1 mm</b>	
1 roll = 1000 markers, each 60 mm long	white
	yellow

Type	Order No.	Pcs. / Pkt.
<b>WMS-2 HF 2,4 (15X4)RL</b>	0801000	1
<b>WMS-2 HF 2,4 (15X4)RL YE</b>	0801004	1
<b>WMS-2 HF 2,4 (30X4)RL</b>	0801006	1
<b>WMS-2 HF 2,4 (30X4)RL YE</b>	0801007	1
<b>WMS-2 HF 2,4 (60X4)RL</b>	0801008	1
<b>WMS-2 HF 2,4 (60X4)RL YE</b>	0801009	1
<b>WMS-2 HF 3,2 (15X5)RL</b>	0801001	1
<b>WMS-2 HF 3,2 (15X5)RL YE</b>	0801010	1
<b>WMS-2 HF 3,2 (30X5)RL</b>	0801011	1
<b>WMS-2 HF 3,2 (30X5)RL YE</b>	0801012	1
<b>WMS-2 HF 3,2 (60X5)RL</b>	0801002	1
<b>WMS-2 HF 3,2 (60X5)RL YE</b>	0801013	1
<b>WMS-2 HF 4,8 (15X9)RL</b>	0801014	1
<b>WMS-2 HF 4,8 (15X9)RL YE</b>	0801015	1
<b>WMS-2 HF 4,8 (30X9)RL</b>	0801016	1
<b>WMS-2 HF 4,8 (30X9)RL YE</b>	0801017	1
<b>WMS-2 HF 4,8 (60X9)RL</b>	0801019	1
<b>WMS-2 HF 4,8 (60X9)RL YE</b>	0801020	1
<b>WMS-2 HF 6,4 (30X10)RL</b>	0801022	1
<b>WMS-2 HF 6,4 (30X10)RL YE</b>	0801023	1
<b>WMS-2 HF 6,4 (60X10)RL</b>	0801024	1
<b>WMS-2 HF 6,4 (60X10)RL YE</b>	0801025	1
<b>WMS-2 HF 9,5 (15X16)RL</b>	0801003	1
<b>WMS-2 HF 9,5 (30X16)RL</b>	0801026	1
<b>WMS-2 HF 9,5 (30X16)RL YE</b>	0801027	1
<b>WMS-2 HF 9,5 (60X16)RL</b>	0801028	1
<b>WMS-2 HF 9,5 (60X16)RL YE</b>	0801029	1
<b>WMS-2 HF 12,7 (60X20)RL</b>	0833200	1
<b>WMS-2 HF 12,7 (60X20)RL YE</b>	0833201	1
<b>WMS-2 HF 19,1 (60X30)RL</b>	0833202	1
<b>WMS-2 HF 19,1 (60X30)RL YE</b>	0833203	1
<b>WMS-2 HF 25,4 (60X40)RL</b>	0833204	1
<b>WMS-2 HF 25,4 (60X40)RL YE</b>	0833205	1
<b>WMS-2 HF 38,1 (60X60)RL</b>	0833206	1
<b>WMS-2 HF 38,1 (60X60)RL YE</b>	0833207	1

### Pre-assembled shrink sleeves

Can be marked using:



Thermal transfer for rolls

PRINTED  
FOR YOU



Conductor cross sections from 0.8 to 6.4 mm

- The shrink tubes WMS ... permanently identify conductors and cables
  - The tubes are pre-assembled for optimum use of material
  - Up to four markers per tube are separated by perforation
  - The conductor to be marked is easily threaded through the tube and fixed by shrinking the tube
  - The tubes remain flexible after shrinking
  - The shrink tubes offer the conductors additional electrical insulation and mechanical protection
- The following standards are satisfied:
- UL 224 (125°C, 600 V, all tubing-1)
  - CSA.C22.2 No. 198.1 (125°C, 600 V, all tubing-1)
  - MIL-STD-202G, SAE AMS-DTL-23053, SAE AS-81531

#### Notes:

The special THERMOMARK-RIBBON ... WMSU is required for marking shrink sleeves WMS ..., see Printer, Page 36.

#### General data

Can be marked using

Material

Temperature range

Wipe resistance

Components

Shrink rate

[°C]

#### Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.2

Polyolefine

-55 ... 135

DIN EN 61010-1 (VDE 0411-1)

Halogen-free

3:1

#### Ordering data

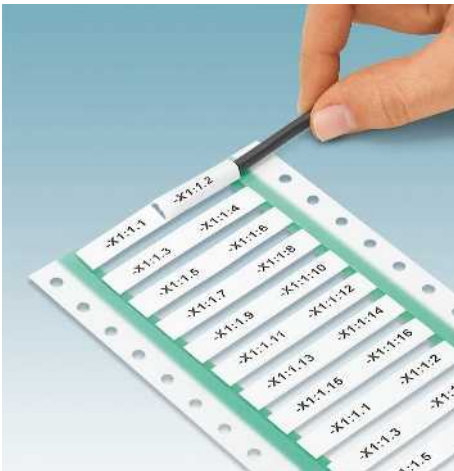
Description	Color	Type	Order No.	Pcs. / Pkt.
<b>Shrink sleeve, for conductor diameters 0.8 - 2.4 mm</b>				
1 roll = 1000 marker, each 15 mm long	white	WMS 2,4 (15X4)R	0800379	1
	yellow	WMS 2,4 (15X4)R YE	0800412	1
1 roll = 500 marker, each 30 mm long	white	WMS 2,4 (30X4)R	0800373	1
	yellow	WMS 2,4 (30X4)R YE	0800407	1
1 roll = 250 marker, each 60 mm long	white	WMS 2,4 (60X4)R	0800363	1
	yellow	WMS 2,4 (60X4)R YE	0800398	1
<b>Shrink sleeve, for conductor diameters 1.0 - 3.2 mm</b>				
1 roll = 1000 marker, each 15 mm long	white	WMS 3,2 (15X5)R	0800380	1
	yellow	WMS 3,2 (15X5)R YE	0800413	1
1 roll = 500 marker, each 30 mm long	white	WMS 3,2 (30X5)R	0800374	1
	yellow	WMS 3,2 (30X5)R YE	0800408	1
1 roll = 250 marker, each 60 mm long	white	WMS 3,2 (60X5)R	0800364	1
	yellow	WMS 3,2 (60X5)R YE	0800399	1
<b>Shrink sleeve, for conductor diameters 1.6 - 4.8 mm</b>				
1 roll = 1000 marker, each 15 mm long	white	WMS 4,8 (15X9)R	0800382	1
	yellow	WMS 4,8 (15X9)R YE	0800414	1
1 roll = 500 marker, each 30 mm long	white	WMS 4,8 (30X9)R	0800375	1
	yellow	WMS 4,8 (30X9)R YE	0800409	1
1 roll = 250 marker, each 60 mm long	white	WMS 4,8 (60X9)R	0800366	1
	yellow	WMS 4,8 (60X9)R YE	0800400	1
<b>Shrink sleeve, for conductor diameters 2.1 - 6.4 mm</b>				
1 roll = 1000 marker, each 15 mm long	white	WMS 6,4 (15X10)R	0801593	1
	white	WMS 6,4 (30X10)R	0800376	1
	yellow	WMS 6,4 (30X10)R YE	0800410	1
	white	WMS 6,4 (60X10)R	0800367	1
	yellow	WMS 6,4 (60X10)R YE	0800401	1



## Conductor and cable marking

### Pre-assembled shrink sleeves

Can be marked using:



Thermal transfer for rolls

PRINTED  
FOR YOU



Conductor diameter from 3.2 to 38 mm,  
white and yellow

- The shrink tubes WMS ... permanently identify conductors and cables
- The tubes are pre-assembled for optimum use of material
- Up to four markers per tube are separated by perforation
- The conductor to be marked is easily threaded through the tube and fixed by shrinking the tube
- The tubes remain flexible after shrinking
- The shrink tubes offer the conductors additional electrical insulation and mechanical protection

The following standards are satisfied:

- UL 224 (125°C, 600 V, all tubing-1)
- CSA.C22.2 No. 198.1 (125°C, 600 V, all tubing-1)
- MIL-STD-202G, SAE AMS-DTL-23053, SAE AS-81531

#### General data

Can be marked using

Material

Temperature range

Wipe resistance

Components

Shrink rate

[°C]

#### Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 •

THERMOMARK X1.2

Polyolefine

-55 ... 135

DIN EN 61010-1 (VDE 0411-1)

Halogen-free

3:1

#### Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
<b>Shrink sleeve, for conductor diameters 3.2 - 9.5 mm</b>				
1 roll = 500 marker, each 30 mm long	white	<b>WMS 9,5 (30X16)R</b>	<b>0800377</b>	1
	yellow	<b>WMS 9,5 (30X16)R YE</b>	<b>0800411</b>	1
1 roll = 250 marker, each 60 mm long	white	<b>WMS 9,5 (60X16)R</b>	<b>0800368</b>	1
	yellow	<b>WMS 9,5 (60X16)R YE</b>	<b>0800402</b>	1
<b>Shrink sleeve, for conductor diameters 4.2 - 12.7 mm</b>				
1 roll = 250 marker, each 60 mm long	white	<b>WMS 12,7 (60X20)R</b>	<b>0800369</b>	1
	yellow	<b>WMS 12,7 (60X20)R YE</b>	<b>0800403</b>	1
<b>Shrink sleeve, for conductor diameters 6.4 - 19.1 mm</b>				
1 roll = 250 marker, each 60 mm long	white	<b>WMS 19,1 (60X30)R</b>	<b>0800370</b>	1
	yellow	<b>WMS 19,1 (60X30)R YE</b>	<b>0800404</b>	1
<b>Shrink sleeve, for conductor diameters 8.5 - 25.4 mm</b>				
1 roll = 250 marker, each 60 mm long	white	<b>WMS 25,4 (60X40)R</b>	<b>0800371</b>	1
	yellow	<b>WMS 25,4 (60X40)R YE</b>	<b>0800405</b>	1
<b>Shrink sleeve, for conductor diameters 12.7 - 38.1 mm</b>				
1 roll = 250 marker, each 60 mm long	white	<b>WMS 38,1 (60X60)R</b>	<b>0800372</b>	1
	yellow	<b>WMS 38,1 (60X60)R YE</b>	<b>0800406</b>	1



### Pre-assembled shrink sleeves

#### Notes:

The special THERMOMARK-RIBBON ... WMSU is required for marking shrink sleeves WMS ..., see Printer, Page 36

The external THERMOMARK ROLL-ERH media hub is required for RL rolls, see Printer, Page 36  
The external THERMOMARK-ERH 500 media hub is required for RXL rolls, see Printer, Page 36.

PRINTED  
FOR YOU



Conductor diameter from 0.8 to 4.8 mm,  
white and yellow, on large roll

PRINTED  
FOR YOU



Conductor diameter from 0.8 to 4.8 mm,  
white and yellow, on extra large roll

#### General data

Can be marked using

Material

Temperature range

Wipe resistance

Components

Shrink rate

[°C]

#### Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.2

Polyolefine

-55 ... 135

DIN EN 61010-1 (VDE 0411-1)

Halogen-free

3:1

#### Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.2

Polyolefine

-55 ... 135

DIN EN 61010-1 (VDE 0411-1)

Halogen-free

3:1

#### Ordering data

Type	Order No.	Pcs. / Pkt.
<b>Shrink sleeve</b> , for conductor diameters 0.8 - 2.4 mm		
1 roll = 4000 marker, each 15 mm long		
1 roll = 10000 marker, each 15 mm long		
1 roll = 2000 marker, each 30 mm long		
1 roll = 5000 marker, each 30 mm long		
1 roll = 1000 marker, each 60 mm long		
1 roll = 2500 marker, each 60 mm long		
<b>Shrink sleeve</b> , for conductor diameters 1.0 - 3.2 mm		
1 roll = 4000 marker, each 15 mm long		
1 roll = 2000 marker, each 30 mm long		
1 roll = 1000 marker, each 60 mm long		
1 roll = 2500 marker, each 60 mm long		
<b>Shrink sleeve</b> , for conductor diameters 1.6 - 4.8 mm		
1 roll = 4000 marker, each 15 mm long		
1 roll = 10000 marker, each 15 mm long		
1 roll = 2000 marker, each 30 mm long		
1 roll = 5000 marker, each 30 mm long		
1 roll = 1000 marker, each 60 mm long		
1 roll = 2500 marker, each 60 mm long		
<b>Shrink sleeve</b> , for conductor diameters 2.1 - 6.4 mm		
1 roll = 4000 marker, each 15 mm long		
1 roll = 2500 marker, each 15 mm long		
1 roll = 2500 marker, each 60 mm long		
<b>Shrink sleeve</b> , for conductor diameters 3.2 - 9.5 mm		
1 roll = 1000 marker, each 60 mm long		
<b>Shrink sleeve</b> , for conductor diameters 4.2 - 12.7 mm		
1 roll = 1000 marker, each 60 mm long		
<b>Shrink sleeve</b> , for conductor diameters 6.4 - 19.1 mm		
1 roll = 1000 marker, each 60 mm long		

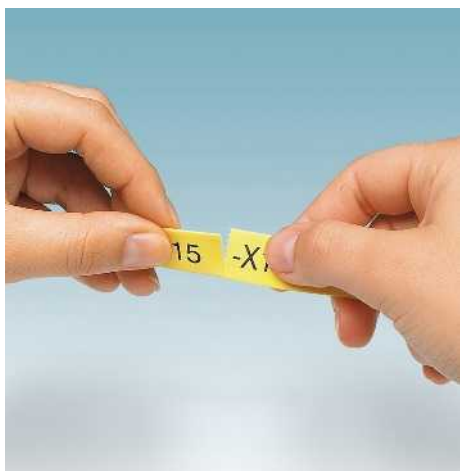
#### Ordering data

Type	Order No.	Pcs. / Pkt.
<b>Shrink sleeve</b> , for conductor diameters 0.8 - 2.4 mm		
WMS 2,4 (15X4)RL	0800389	1
WMS 2,4 (15X4)RXL	0800396	1
WMS 2,4 (30X4)RL	0800386	1
WMS 2,4 (30X4)RXL	0800394	1
WMS 2,4 (60X4)RL	0800383	1
WMS 2,4 (60X4)RXL	0800392	1
<b>Shrink sleeve</b> , for conductor diameters 1.0 - 3.2 mm		
WMS 3,2 (15X5)RL	0800390	1
WMS 3,2 (30X5)RL	0800387	1
WMS 3,2 (60X5)RL	0800384	1
WMS 3,2 (60X5)RXL YE	0803102	1
<b>Shrink sleeve</b> , for conductor diameters 1.6 - 4.8 mm		
WMS 4,8 (15X9)RL	0800391	1
WMS 4,8 (15X9)RXL	0800397	1
WMS 4,8 (30X9)RL	0800388	1
WMS 4,8 (30X9)RXL	0800395	1
WMS 4,8 (30X9)RXL YE	0803313	1
WMS 4,8 (60X9)RL	0800385	1
WMS 4,8 (60X9)RXL	0800393	1
WMS 4,8 (60X9)RXL YE	0803103	1
<b>Shrink sleeve</b> , for conductor diameters 2.1 - 6.4 mm		
WMS 6,4 (15X10)RL	0801594	1
WMS 6,4 (15X10)RXL	0801595	1
WMS 6,4 (60X10)RXL YE	0803104	1
<b>Shrink sleeve</b> , for conductor diameters 3.2 - 9.5 mm		
WMS 9,5 (60X16)RL	0803105	1
WMS 9,5 (60X16)RXL YE	0803106	1
<b>Shrink sleeve</b> , for conductor diameters 4.2 - 12.7 mm		
WMS 12,7 (60X20)RXL YE	0803107	1
<b>Shrink sleeve</b> , for conductor diameters 6.4 - 19.1 mm		
WMS 19,1 (60X30)RXL YE	0803108	1

## Conductor and cable marking

### Continuous shrink sleeve

Can be marked using:



Thermal transfer for rolls

PRINTED  
FOR YOU



Conductor diameter from 0.8 to 50.8 mm,  
white

- The shrink tubes are automatically perforated or cut to the length required in the printing process
- Are available in the form of continuous on-roll goods and can be printed on both sides using the THERMOMARK W2 printer
- Individual markers can be cut to any length up to 1 m

The following standards are satisfied:

- UL 224 (125°C, 600 V, all tubing-1)
- CSA.C22.2 No. 198.1 (125°C, 600 V, all tubing-1)
- MIL-STD-202G, SAE AMS-DTL-23053, SAE AS-81531

#### Notes:

The special THERMOMARK-RIBBON ... WMSU is required for marking shrink sleeves WMS ..., see Printer, Page 36  
How to use the external media hubs:  
THERMOMARK ROLL:  
Use the external THERMOMARK ROLL-ERH media hub for R rolls and the external THERMOMARK-ERH 500 for large rolls, see Printer, Page 36.  
THERMOMARK ROLL X1 and THERMOMARK W2:  
R rolls can be inserted directly in the device, use the THERMOMARK-ERH 500 for large rolls, see Printer, Page 36.

#### General data

Can be marked using

Material  
Temperature range  
Wipe resistance  
Components  
Shrink rate

[°C]

#### Description

##### Shrink sleeve

1 roll = 30 m, Conductor diameter: 0.8 - 2.4 mm  
1 roll = 30 m, Conductor diameter: 1.0 - 3.2 mm  
1 roll = 30 m, Conductor diameter: 1.6 - 4.8 mm  
1 roll = 25 m, Conductor diameter: 2.1 - 6.4 mm  
1 roll = 20 m, Conductor diameter: 3.2 - 9.5 mm  
1 roll = 20 m, Conductor diameter: 4.2 - 12.7 mm  
1 roll = 20 m, Conductor diameter: 6.4 - 19.1 mm  
1 roll = 15 m, Conductor diameter: 8.5 - 25.4 mm  
1 roll = 15 m, Conductor diameter: 12.7 - 38.1 mm  
1 roll = 15 m, Conductor diameter: 16.9 - 50.8 mm

##### Shrink sleeve, large roll

1 roll = 120 m, Conductor diameter: 0.8 - 2.4 mm  
1 roll = 120 m, Conductor diameter: 1.0 - 3.2 mm  
1 roll = 120 m, Conductor diameter: 1.6 - 4.8 mm  
1 roll = 100 m, Conductor diameter: 2.1 - 6.4 mm  
1 roll = 80 m, Conductor diameter: 3.2 - 9.5 mm  
1 roll = 80 m, Conductor diameter: 4.2 - 12.7 mm  
1 roll = 80 m, Conductor diameter: 6.4 - 19.1 mm  
1 roll = 60 m, Conductor diameter: 8.5 - 25.4 mm

#### Technical data

THERMOMARK W1 • THERMOMARK W2 • THERMOMARK ROLL • THERMOMARK X1.2 • THERMOMARK ROLL X1  
Polyolefine  
-55 ... 135  
DIN EN 61010-1 (VDE 0411-1)  
Halogen-free  
3:1

#### Ordering data

Type	Order No.	Pcs. / Pkt.
WMS 2,4 (EX4)R	0800289	1
WMS 3,2 (EX5)R	0800290	1
WMS 4,8 (EX9)R	0800291	1
WMS 6,4 (EX10)R	0800292	1
WMS 9,5 (EX16)R	0800293	1
WMS 12,7 (EX20)R	0800294	1
WMS 19,1 (EX30)R	0800295	1
WMS 25,4 (EX40)R	0800296	1
WMS 38,1 (EX60)R	0800298	1
WMS 50,8 (EX80)R	0800299	1
WMS 2,4 (EX4)RL	0800319	1
WMS 3,2 (EX5)RL	0800320	1
WMS 4,8 (EX9)RL	0800321	1
WMS 6,4 (EX10)RL	0800322	1
WMS 9,5 (EX16)RL	0800324	1
WMS 12,7 (EX20)RL	0800325	1
WMS 19,1 (EX30)RL	0800326	1
WMS 25,4 (EX40)RL	0800327	1





PRINTED  
FOR YOU



Conductor diameter from 0.8 to 50.8 mm,  
yellow

PRINTED  
FOR YOU



Conductor diameter from 0.8 to 50.8 mm,  
black

### Technical data

THERMOMARK W1 • THERMOMARK W2 • THERMOMARK ROLL • THERMOMARK X1.2 • THERMOMARK ROLL X1  
Polyolefine  
-55 ... 135  
DIN EN 61010-1 (VDE 0411-1)  
Halogen-free  
3:1

### Technical data

THERMOMARK W1 • THERMOMARK W2 • THERMOMARK ROLL • THERMOMARK X1.2 • THERMOMARK ROLL X1  
Polyolefine  
-55 ... 135  
DIN EN 61010-1 (VDE 0411-1)  
Halogen-free  
3:1

### Ordering data

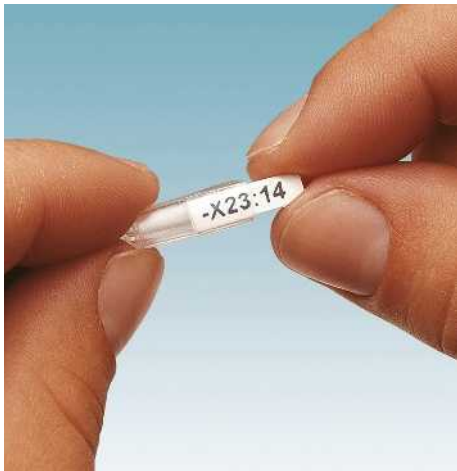
Type	Order No.	Pcs. / Pkt.
WMS 2,4 (EX4)R YE	0800300	1
WMS 3,2 (EX5)R YE	0800301	1
WMS 4,8 (EX9)R YE	0800302	1
WMS 6,4 (EX10)R YE	0800303	1
WMS 9,5 (EX16)R YE	0800304	1
WMS 12,7 (EX20)R YE	0800305	1
WMS 19,1 (EX30)R YE	0800306	1
WMS 25,4 (EX40)R YE	0800308	1
WMS 38,1 (EX60)R YE	0800309	1
WMS 50,8 (EX80)R YE	0800311	1
WMS 2,4 (EX4)RL YE	0800328	1
WMS 3,2 (EX5)RL YE	0800329	1
WMS 4,8 (EX9)RL YE	0800330	1
WMS 6,4 (EX10)RL YE	0800331	1
WMS 9,5 (EX16)RL YE	0800332	1
WMS 12,7 (EX20)RL YE	0800333	1
WMS 19,1 (EX30)RL YE	0800334	1
WMS 25,4 (EX40)RL YE	0800335	1

### Ordering data

Type	Order No.	Pcs. / Pkt.
WMS 2,4 (EX4)R BK	0800415	1
WMS 3,2 (EX5)R BK	0800416	1
WMS 4,8 (EX9)R BK	0800418	1
WMS 6,4 (EX10)R BK	0800419	1
WMS 9,5 (EX16)R BK	0800421	1
WMS 12,7 (EX20)R BK	0800422	1
WMS 19,1 (EX30)R BK	0800423	1
WMS 25,4 (EX40)R BK	0800424	1
WMS 38,1 (EX60)R BK	0800425	1
WMS 50,8 (EX80)R BK	0800426	1
WMS 2,4 (EX4)RL BK	0800427	1
WMS 3,2 (EX5)RL BK	0800428	1
WMS 4,8 (EX9)RL BK	0800429	1
WMS 6,4 (EX10)RL BK	0800430	1
WMS 9,5 (EX16)RL BK	0800431	1
WMS 12,7 (EX20)RL BK	0800432	1
WMS 19,1 (EX30)RL BK	0800434	1
WMS 25,4 (EX40)RL BK	0800435	1

## Conductor and cable marking

### Insertable conductor marking for marking collars



- EMT ... insert labels for marking various marking collars
- Can be printed onto, with THERMOMARK... for material off the roll
- Thanks to their special contour, EMT ... insert labels remain securely inside the collar once inserted
- The PABL ... sheets are available to allow marking with a laser printer

Notes:
PATG/PATO ... system, see page 214.
KMK ..., see page 202.
LM ..., see page 203.

Can be marked using:



Thermal transfer for rolls

PRINTED  
FOR YOU



Insert labels for marker carriers

#### General data

Can be marked using

Material  
Temperature range  
Wipe resistance  
Components

[°C]

#### Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1  
Polyester  
-40 ... 120  
DIN EN 61010-1 (VDE 0411-1)  
Free from silicone and halogen

#### Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
<b>Insert strips</b> , lettering field size: 10 x 4 mm, 7500 labels per roll				
Lettering field size: 15 x 4 mm, 7500 labels per roll	white	EMT (10X4)R	0816235	1
	white	EMT (15X4)R	0817329	1
	red	EMT (15X4)R RD	0816249	1
	yellow	EMT (15X4)R YE	0817358	1
	blue	EMT (15X4)R BU	0817332	1
Lettering field size: 23 x 4 mm, 5000 labels per roll	white	EMT (23X4)R	0817361	1
	yellow	EMT (23X4)R YE	0817374	1
Lettering field size: 24 x 4 mm, 5000 labels p. roll	white	EMT (24X4)R	0816265	1
Lettering field size: 25 x 6 mm, 5000 labels per roll	white	EMT (25X6)R	0817264	1
Lettering field size: 29 x 8 mm, 5400 labels per roll	white	EMT (29X8)R	0817277	1
	yellow	EMT (29X8)R YE	0817280	1
Lettering field size: 40 x 17 mm, 2300 labels per roll	white	EMT (40X17)R	0817293	1
Lettering field size: 60 x 15 mm, 2500 labels per roll	white	EMT (60X15)R	0801846	1
<b>Insert strips</b> , for PATG/PATO, perforated, DIN A4 sheet, lettering field size: 15 x 4 mm, 1 sheet = 360 labels, for office laser printers				
	white	PABL 15X4	0808260	10



**Insertable conductor marking with threading and insertion aid for marking collars**

Can be marked using:

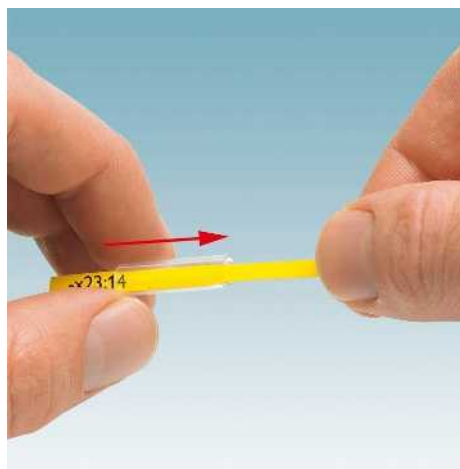


Thermal transfer for rolls

PRINTED  
FOR YOU



For PATG ... and PATO... marker carriers



- The WMTW... insert labels are used to label marking collars from the PATG/PATO ... system; see page 214
- Easy assembly, thanks to a threading and insertion aid, which can be easily separated by means of a perforation after inserting the marker
- Thanks to their special shape, the WMTW ... insert labels remain securely inside the marking collar
- Can be printed onto, with THERMOMARK... for material off the roll
- Marking service: Phoenix Contact can custom-mark all conductor markers in accordance with your requirements

**General data**

Can be marked using

Material

Temperature range

[°C]

Wipe resistance

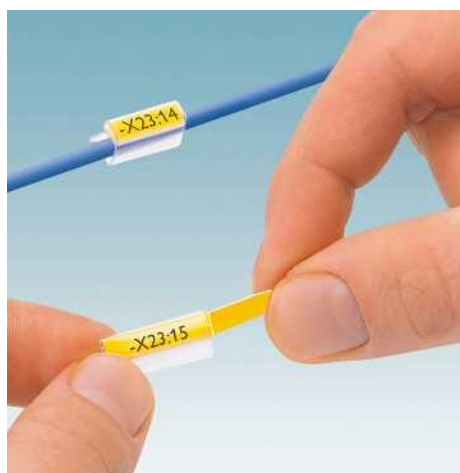
Components

**Technical data**

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1  
Polyolefine  
-40 ... 90  
DIN EN 61010-1 (VDE 0411-1)  
Halogen-free

**Ordering data**

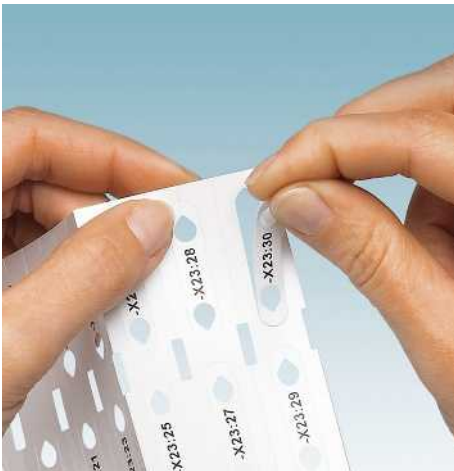
Description	Color	Type	Order No.	Pcs. / Pkt.
<b>Insertable conductor marking</b>				
Lettering field size: 10 x 4 mm, 3000 labels per roll	white	WMTW (10X4)R	0831000	1
Lettering field size: 10 x 4 mm, 3000 labels per roll	yellow	WMTW (10X4)R YE	0831001	1
Lettering field size: 15 x 4 mm, 3000 labels per roll	white	WMTW (15X4)R	0831002	1
Lettering field size: 15 x 4 mm, 3000 labels per roll	yellow	WMTW (15X4)R YE	0831003	1
Lettering field size: 23 x 4 mm, 3000 labels per roll	white	WMTW (23X4)R	0831004	1
Lettering field size: 23 x 4 mm, 3000 labels per roll	yellow	WMTW (23X4)R YE	0831005	1



## Conductor and cable marking

### Slide-on conductor marking

Can be marked using:



- The conductor to be marked is pushed through two punched holes in the marker and positioned
- The special hole geometry ensures a strong axial hold
- Made from high-quality polyester foil
- Available for different conductor diameters
- Custom marking and easy handling
- High-quality marking image created by thermal transfer printing
- Special packaging protects the conductor markers against external influences, dust, and dirt
- Marking service: Phoenix Contact can custom-mark all conductor markers in accordance with your requirements



Thermal transfer for rolls

PRINTED  
FOR YOU



Marker for conductor diameters of 1.0 to 8.4 mm

#### General data

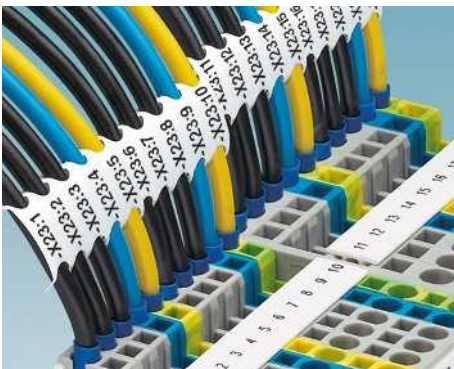
Can be marked using	
Number of individual labels	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

#### Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1  
4000  
Polyester  
-40 ... 120  
DIN EN 61010-1 (VDE 0411-1)  
Free from silicone and halogen

#### Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
<b>Slide-on conductor markers, 1 roll = 4000 conductor markers</b>				
Lettering field size: 15 x 4 mm, conductor diameter: 1.0 - 2.4 mm	white	<b>WMT 2,4 (15X4)R</b>	<b>0816281</b>	1
Lettering field size: 15 x 5 mm, conductor diameter: 2.0 - 3.5 mm	white	<b>WMT 3,5 (15X5)R</b>	<b>0817222</b>	1
Lettering field size: 15 x 6 mm, conductor diameter: 3.0 - 4.2 mm	white	<b>WMT 4,2 (15X6)R</b>	<b>0817235</b>	1
Lettering field size: 15 x 8 mm, conductor diameter: 4.0 - 5.5 mm	white	<b>WMT 5,5 (15X8)R</b>	<b>0817248</b>	1
Lettering field size: 17 x 10 mm, conductor diameter: 5.0 - 8.4 mm	white	<b>WMT 8,4 (17X10)R</b>	<b>0817251</b>	1



**Conductor marking for cable binder assembly**

Can be marked using:



Thermal transfer for rolls

PRINTED  
FOR YOU



Marker for conductor diameters of 6 mm and above

- Conductor marking for identifying and bundling conductors in indoor areas
- Made from high-quality polyester foil
- The marker has two fastening eyes so that it can be attached to the conductor by means of PKB ... cable binders
- Marking service: Phoenix Contact can custom-mark all conductor markers in accordance with your requirements

**Notes:**

For corresponding cable binders, see from page 588.

**General data**

Can be marked using

Material

Temperature range

Wipe resistance

Components

[°C]

**Technical data**

THERMOMARK ROLL • THERMOMARK ROLL X1.1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1

Polyester

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

Free from silicone and halogen

**Ordering data**

Description	Color	Type	Order No.	Pcs. / Pkt.
<b>Cable markers for assembly with cable binders</b>				
Lettering field size: 24 x 8 mm (max. cable binder width: 5 mm), 4000 cable markers per roll	white	WMTB (24X8)R	0816278	1
Lettering field size: 35 x 15 mm (max. cable binder width: 5 mm), 1700 cable markers per roll	white	WMTB (35X15)R	0817316	1

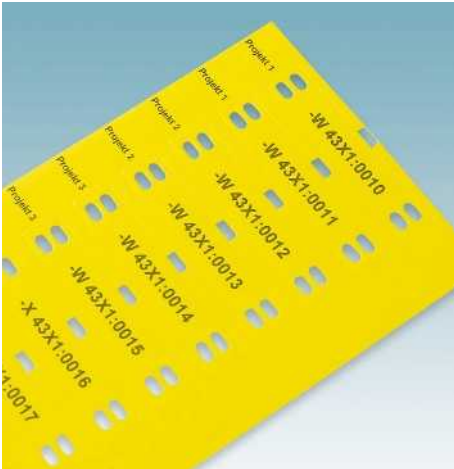


# Marking and labeling - MARKING system

## Conductor and cable marking

### Conductor marking for cable binder assembly

Can be marked using:



Thermal transfer for rolls

PRINTED  
FOR YOU



Marker for conductor diameters of 6 mm and above

Halogen-free conductor and cable marking for marking and bundling conductors and cables indoors and outdoors.

- Made from high-quality thermoplastic polyether urethane
- Highly flexible material, adapts to the bending of the conductors or cables
- Additional marking, such as project information, can be printed on the carrier material. This makes it easier to assign the markers during mounting
- Very high tensile strength
- Flame-retardant material
- The marker has two fastening lugs so that it can be attached to the conductor by means of cable binders
- Marking service: Phoenix Contact can custom-mark all conductor markers in accordance with your requirements

**Notes:**  
For corresponding cable binders, see from page 588.

General data	
Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data	
THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2	
PUR	
V0	
-25 ... 80	
DIN EN 61010-1 (VDE 0411-1)	
Halogen-free	

Description	Color
<b>Cable markers for assembly with cable binders</b> , maximum cable binder width: 5 mm	
1000 markers per roll, lettering field size: 40 x 12 mm	white
	yellow
	red
	blue
	blue
1000 markers per roll, lettering field size: 55 x 15 mm	white
	yellow
	red
	blue
	blue
500 markers per roll, lettering field size: 55 x 25 mm	white
	yellow
	red
	blue
	blue

Ordering data		
Type	Order No.	Pcs. / Pkt.
WMTB HF (40X12)R	0830407	1
WMTB HF (40X12)R YE	0830408	1
WMTB HF (40X12)R RD	0803314	1
WMTB HF (40X12)R BU	0802991	1
WMTB HF (55X15)R	0830409	1
WMTB HF (55X15)R YE	0830410	1
WMTB HF (55X15)R RD	0803315	1
WMTB HF (55X15)R BU	0802992	1
WMTB HF (55X25)R	0830411	1
WMTB HF (55X25)R YE	0830412	1
WMTB HF (55X25)R RD	0803316	1
WMTB HF (55X25)R BU	0802993	1

<b>Ink ribbon</b> , specifically for cable markers for assembly with cable binders, WMTB HF..., length: 300 m, width: 110 mm	black
<b>Ink ribbon</b> , specifically for cable markers for assembly with cable binders, WMTB HF..., length: 300 m, width: 110 mm	white

Accessories		
Type	Order No.	Pcs. / Pkt.
THERMOMARK-RIBBON 110-WMTB HF	5148007	1
TM-RIBBON 110-WMTB HF WH	0802990	1



**Conductor marker carriers for assembly with cable binders, for labels with laminated protective foil**



- The WM-CARRIER /B... conductor marker carriers consist of a marking field for labels and a transparent, self-adhesive laminated protective foil
- The protective foil provides permanent protection against contamination and abrasion
- High-quality marking image created by thermal transfer printing
- Quick and easy handling
- The marker has two fastening lugs so that it can be attached to the conductor by means of cable binders
- Resistant to solvents
- Marking service: Phoenix Contact can custom-mark all cable marker labels in accordance with your requirements

**Notes:**  
For corresponding cable binders, see from page 588.



Marker for conductor diameters from 6 mm

General data	
Material	PVC/polyester
Temperature range	-10 ... 60 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Halogen-free

Description	Color
<b>Conductor marker carriers</b> , maximum cable binder width: 5 mm	
Lettering field size: 48 x 10 mm	transparent
Lettering field size: 55 x 15 mm	transparent
Lettering field size: 85 x 15 mm	transparent

Labels	
2500 labels per roll	white
2500 labels per roll	yellow
2500 labels per roll	white
2500 labels per roll	yellow
2500 labels per roll	white
2500 labels per roll	yellow

**Technical data**

**Ordering data**

Type	Order No.	Pcs. / Pkt.
WM-CARRIER/B (48X10)LPR	0830423	100
WM-CARRIER/B (55X15)LPR	0830424	100
WM-CARRIER/B (85X15)LPR	0830425	100

**Accessories**

EML (40X6)R	0830481	1
EML (40X6)R YE	0830482	1
EML (50X10)R	0830483	1
EML (50X10)R YE	0830484	1
EML (75X10)R	0830485	1
EML (75X10)R YE	0830486	1



## Conductor and cable marking

### Plastic cable marker for insert labels, for assembly with cable binders



- The KMK... versions have eyelets and are attached with cable binders
- Plastic cable markers for marking and bundling multiple conductors and cables indoors
- The printed insert label is protected from dirt by the sealing cap
- Marking service: Phoenix Contact can custom-mark all insert labels for plastic cable markers in accordance with your requirements

<b>Notes:</b>
For corresponding cable binders, see from page 588.



Lettering field size 25 x 6 mm, for cable diameter > 6 mm

General data	
Material	Polyethylene
Temperature range	-40 ... 80 [°C]
Components	Free from silicone and halogen

Description	Color
Plastic cable marker for insert labels, with eyelets for fastening with cable binders Lettering field size: 25 x 6 mm	transparent
Plastic cable markers for insert labels, with eyelets for fastening with cable binders Lettering field size: 29 x 8 mm	transparent
Plastic cable markers for insert labels, with eyelets for fastening with cable binders Lettering field size: 40 x 17 mm	transparent
Plastic cable markers for insert labels, with eyelets for fastening with cable binders Lettering field size: 60 x 15 mm	transparent

### Technical data

Material	Polyethylene
Temperature range	-40 ... 80
Components	Free from silicone and halogen

### Ordering data

Type	Order No.	Pcs. / Pkt.
KMK 1	0830745	100

Insert strips for laser printers, DIN A4, perforated	
Lettering field size: 25 x 6 mm, 1 sheet = 252 labels	
Lettering field size: 29 x 8 mm, 1 sheet = 174 labels	
Lettering field size: 40 x 17 mm, 1 sheet = 56 labels	
Lettering field size: 60 x 15 mm, 1 sheet = 51 labels	

Insert labels for thermal transfer printer, halogen-free	
Lettering field size: 25 x 6 mm, 5000 labels per roll	
Lettering field size: 29 x 8 mm, 5400 labels per roll	
Lettering field size: 40 x 17 mm, 2300 labels per roll	
Lettering field size: 60 x 15 mm, 2500 labels per roll	

UniSheet, 0.5 mm thick, inflammability class V0 according to UL 94	
84-section, lettering field size: 25 x 6 mm	
48-section, lettering field size: 29 x 8 mm	
16-section, lettering field size: 40 x 17 mm	
9-section, lettering field size: 60 x 15 mm	

### Accessories

Type	Order No.	Pcs. / Pkt.
ESL (25X6)	0801849	10
EMT (25X6)R	0817264	1
US-EMP (25X6)-1	0802754	10







Lettering field size 29 x 8 mm,  
for cable diameter > 6 mm



Lettering field size 40 x 17 mm,  
for cable diameter > 9 mm



Lettering field size 60 x 15 mm,  
for cable diameter > 9 mm

Technical data		
Polyethylene		
-40 ... 80		
Free from silicone and halogen		

Ordering data		
Type	Order No.	Pcs. / Pkt.
KMK 2	1005266	100

Accessories		
Type	Order No.	Pcs. / Pkt.
ESL 29X8	0808257	10
EMT (29X8)R	0817277	1
US-EMP (29X8)	0829436	10

Technical data		
Polyethylene		
-40 ... 80		
Free from silicone and halogen		

Ordering data		
Type	Order No.	Pcs. / Pkt.
KMK 4	1005305	50

Accessories		
Type	Order No.	Pcs. / Pkt.
ESL 40X17	0808095	10
EMT (40X17)R	0817293	1
US-EMP (40X17)	0829437	10

Technical data		
Polyethylene		
-40 ... 80		
Free from silicone and halogen		

Ordering data		
Type	Order No.	Pcs. / Pkt.
KMK 5	0830746	50

Accessories		
Type	Order No.	Pcs. / Pkt.
ESL (60X15)	0801851	10
EMT (60X15)R	0801846	1
US-EMP (60X15)	0828781	10

## Conductor and cable marking

### Plastic cable marker for insert labels, for assembly with cable binders



- Plastic cable markers for marking and bundling multiple conductors and cables indoors
- The printed insert label is protected from dirt by the sealing cap
- Marking service: Phoenix Contact can custom-mark all insert labels for plastic cable markers in accordance with your requirements

<b>Notes:</b>
For corresponding cable binders, see from page 588.



For insert labels with lettering field size 29 x 8 mm, for cable diameters > 10 mm

<b>General data</b>	
Material	Polyethylene
Temperature range	-40 ... 80 [°C]
Components	Free from silicone and halogen

<b>Technical data</b>		
Polyethylene		
-40 ... 80		
Free from silicone and halogen		

Description	Color
<b>Plastic cable markers for insert labels</b> , with cable binders with a pointed end, can be marked with ESL..., EMT... or US-EMP... insert labels, diameter: 10 ... 25 mm, lettering field size: 29 x 8 mm	transparent

<b>Ordering data</b>		
Type	Order No.	Pcs. / Pkt.

<b>Plastic cable markers for insert labels</b> , with cable binders with a pointed end, can be marked with ESL..., EMT... or US-EMP... insert labels, diameter: 16 ... 35 mm, lettering field size: 40 x 17 mm	transparent
--	-------------

<b>KMK</b>	<b>1005208</b>	100
------------	----------------	-----

<b>Cable and conductor markers for insert labels</b> , can be marked with EST or ESL, diameter of 1 - 12 mm, lettering field size: 24 x 4 mm	transparent
--	-------------

<b>Cable and conductor markers for labels</b> , can be marked with EML or EMLC, diameter of 1 - 20 mm, lettering field size: 20 x 8 mm	white
--	-------



<b>Insert strips for laser printers</b> , DIN A4, perforated
Lettering field size: 29 x 8 mm, 1 sheet = 174 labels
Lettering field size: 40 x 17 mm, 1 sheet = 56 labels
Lettering field size: 24 x 4 mm, 1 sheet = 488 labels

<b>Accessories</b>		
ESL 29X8	0808257	10

<b>Insert labels for thermal transfer printers</b>
Lettering field size: 29 x 8 mm, 5400 labels per roll
Lettering field size: 40 x 17 mm, 2300 labels per roll
Lettering field size: 24 x 4 mm, 5000 labels p. roll


<b>EMT (29X8)R</b>	<b>0817277</b>	1
--------------------	----------------	---

<b>UniSheet</b> , 0.5 mm thick
48-section, lettering field size: 29 x 8 mm
16-section, lettering field size: 40 x 17 mm
<b>Textile label</b> , lettering field size: 20 x 8 mm
2500 labels per roll
2500 labels per roll

<b>US-EMP (29X8)</b>	<b>0829436</b>	10
----------------------	----------------	----





Insert label, with lettering field size 40 x 17 mm, for cable diameters > 16 mm



For insert labels with lettering field size 24 x 4 mm, for cable diameters > 1 mm



For adhesive labels, with lettering field size 20 x 8 mm, for cable diameters > 1 mm

Technical data		
Polyethylene		
-40 ... 80		
Free from silicone and halogen		

Ordering data		
Type	Order No.	Pcs. / Pkt.

KMK 3	1005211	50
-------	---------	----

### Accessories

ESL 40X17	0808095	10
EMT (40X17)R	0817293	1
US-EMP (40X17)	0829437	10

Technical data		
PA		
-40 ... 100		
Free from silicone and halogen		

Ordering data		
Type	Order No.	Pcs. / Pkt.

LM	1004377	100
----	---------	-----

### Accessories

ESL 24X4	0808231	10
EMT (24X4)R	0816265	1

Technical data		
PA		
-40 ... 100		
Free from silicone and halogen		

Ordering data		
Type	Order No.	Pcs. / Pkt.

KME	0807083	50
-----	---------	----

### Accessories

EMLC (20X8)R	0815680	1
EML (20X8)R	0816786	1

## Conductor and cable marking

### Plastic cable markers for insert labels, for assembly with cable binders



- KMK HP ... plastic cable markers for marking and bundling conductors and cables indoors
- Inflammability class V0 acc. to UL 94
- The KMK HP... cable markers are particularly suitable for use in the railway industry, traffic technology, and building technology thanks to their outstanding material properties
- The KMK... versions have eyelets and are attached with cable binders
- The printed insert label is protected from dirt by the sealing cap
- Marking service: Phoenix Contact can custom-mark all insert labels for plastic cable markers in accordance with your requirements



#### Notes:

For matching cable binders, see page 588 or the product area on our website at phoenixcontact.net/products.



Lettering field size: 25 x 6 mm, for cable diameter > 6 mm

#### General data

Material	PC
Inflammability class according to UL 94	V0
Temperature range	-40 ... 125 [°C]
Components	Halogen-free

Description	Color
<b>Cable marker carrier</b> for cable binder assembly	transparent

**UniCard**, insert strip for KMK... cable marker carriers, can be marked with THERMOMARK CARD..., BLUEMARK CLED, and TOPMARK Laser

Lettering field size: 25 x 6 mm, 15-section

Lettering field size: 29 x 8 mm, 15-section

Lettering field size: 60 x 15 mm, 3-section

Lettering field size: 40 x 17 mm, 3-section

**UniSheet**, 0.5 mm thick, inflammability class V0 according to UL 94

84-section, lettering field size: 25 x 6 mm

48-section, lettering field size: 29 x 8 mm

9-section, lettering field size: 60 x 15 mm

16-section, lettering field size: 40 x 17 mm

**Insert labels for thermal transfer printer**, halogen-free

Lettering field size: 25 x 6 mm, 5000 labels per roll

Lettering field size: 29 x 8 mm, 5400 labels per roll

Lettering field size: 60 x 15 mm, 2500 labels per roll

Lettering field size: 40 x 17 mm, 2300 labels per roll

**Cable binder**, inflammability class according to UL 94: V0, halogen-free, temperature range: -40°C ... 85°C, maximum bundle Ø [mm]/minimum tensile strength [N]

35 / 130

50 / 220

79 / 220

**Magazine**, for THERMOMARK CARD ..., for accommodating UCT-EMP ...

#### Technical data

PC  
V0  
-40 ... 125  
Halogen-free

#### Ordering data

Type	Order No.	Pcs. / Pkt.
<b>KMK HP (25X6)</b>	0830720	100

#### Accessories

<b>UCT-EMP (25X6)</b>	1014117	10
<b>US-EMP (25X6)-1</b>	0802754	10
<b>EMT (25X6)R</b>	0817264	1
<b>WT-HP HF 3,6X140</b>	0830982	100
<b>WT-HP HF 4,8X200</b>	0830983	100
<b>WT-HP HF 4,5X290</b>	0830984	100
<b>THERMOMARK CARD-UCT-MAG26</b>	0802988	1



Lettering field size: 29 x 8 mm,  
for cable diameter > 6 mm



Lettering field size: 60 x 15 mm,  
for cable diameter > 9 mm



Lettering field size: 40 x 17 mm,  
for cable diameter > 9 mm

Technical data		
PC		
V0		
-40 ... 125		
Halogen-free		

Ordering data		
Type	Order No.	Pcs. / Pkt.
KMK HP (29X8)	0830721	100

Accessories		
-------------	--	--

UCT-EMP (29X8)	1014118	10
US-EMP (29X8)	0829436	10
EMT (29X8)R	0817277	1
WT-HP HF 3,6X140	0830982	100
WT-HP HF 4,8X200	0830983	100
WT-HP HF 4,5X290	0830984	100
THERMOMARK CARD-UCT-MAG26	0802988	1

Technical data		
PC		
V0		
-40 ... 125		
Halogen-free		

Ordering data		
Type	Order No.	Pcs. / Pkt.
KMK HP (60X15)	0830722	50

Accessories		
-------------	--	--

UCT-EMP (60X15)	1014119	10
US-EMP (60X15)	0828781	10
EMT (60X15)R	0801846	1
WT-HP HF 3,6X140	0830982	100
WT-HP HF 4,8X200	0830983	100
WT-HP HF 4,5X290	0830984	100
THERMOMARK CARD-UCT-MAG26	0802988	1

Technical data		
PC		
V0		
-40 ... 125		
Halogen-free		

Ordering data		
Type	Order No.	Pcs. / Pkt.
KMK HP (40X17)	0830723	50

Accessories		
-------------	--	--

UCT-EMP (40X17)	1014120	10
US-EMP (40X17)	0829437	10
EMT (40X17)R	0817293	1
WT-HP HF 3,6X140	0830982	100
WT-HP HF 4,8X200	0830983	100
WT-HP HF 4,5X290	0830984	100
THERMOMARK CARD-UCT-MAG26	0802988	1

## Conductor and cable marking

### Plastic cable markers for insert labels, for assembly with cable binders



- KMK UV ... plastic cable markers for marking and bundling conductors and cables outdoors
- The KMK UV... cable markers are ultra-transparent, impact resistant, and have excellent weathering resistance. At the same time, they also possess outstanding chemical resistance
- The KMK... versions have eyelets and are attached with cable binders
- The printed insert label is protected from dirt by the sealing cap
- Marking service: Phoenix Contact can custom-mark all insert labels for plastic cable markers in accordance with your requirements



Notes:
For matching cable binders, see page 588 or the product area on our website at phoenixcontact.net/products.
1) WT-UV HF...BK cable binders are weatherproof and UV resistant according to ISO 4892 (after QUV-B 600 hours) for up to 10 years.



Lettering field size: 25 x 6 mm, for cable diameter > 6 mm

General data	
Material	PA
Inflammability class according to UL 94	HB
Temperature range	-40 ... 100 [°C]
Components	Halogen-free

Technical data		
PA		
HB		
-40 ... 100		
Halogen-free		

Description	Color
<b>Cable marker carrier</b> for cable binder assembly	transparent

Ordering data		
Type	Order No.	Pcs. / Pkt.
<b>KMK UV (25X6)</b>	1014106	100

**UniCard**, insert strip for KMK... cable marker carriers, can be marked with THERMOMARK CARD..., BLUEMARK CLED, and TOPMARK Laser

Lettering field size: 25 x 6 mm, 15-section  
 Lettering field size: 29 x 8 mm, 15-section  
 Lettering field size: 60 x 15 mm, 3-section  
 Lettering field size: 40 x 17 mm, 3-section

Accessories		
<b>UCT-EMP (25X6)</b>	1014117	10

**UniSheet**, 0.5 mm thick, inflammability class V0 according to UL 94

84-section, lettering field size: 25 x 6 mm  
 48-section, lettering field size: 29 x 8 mm  
 9-section, lettering field size: 60 x 15 mm  
 16-section, lettering field size: 40 x 17 mm

<b>US-EMP (25X6)-1</b>	0802754	10
------------------------	---------	----

**Insert labels for thermal transfer printer**, halogen-free

Lettering field size: 25 x 6 mm, 5000 labels per roll  
 Lettering field size: 29 x 8 mm, 5400 labels per roll  
 Lettering field size: 60 x 15 mm, 2500 labels per roll  
 Lettering field size: 40 x 17 mm, 2300 labels per roll

<b>EMT (25X6)R</b>	0817264	1
--------------------	---------	---

**Cable binder**, halogen-free, inflammability class according to UL 94: V2, maximum bundle Ø [mm] / min. tensile strength [N]!

35 / 130  
 50 / 220  
 79 / 220

<b>WT-UV HF 3,6X140 BK</b>	3240832	100
<b>WT-UV HF 4,5X200 BK</b>	3240834	100
<b>WT-UV HF 4,5X290 BK</b>	3240835	100

**Magazine**, for THERMOMARK CARD ..., for accommodating UCT-EMP ...

<b>THERMOMARK CARD-UCT-MAG26</b>	0802988	1
----------------------------------	---------	---



Lettering field size: 29 x 8 mm,  
for cable diameter > 6 mm



Lettering field size: 60 x 15 mm,  
for cable diameter > 9 mm



Lettering field size: 40 x 17 mm,  
for cable diameter > 9 mm

Technical data		
PA		
HB		
-40 ... 100		
Halogen-free		

Ordering data		
Type	Order No.	Pcs. / Pkt.
KMK UV (29X8)	1014107	100

**Accessories**

UCT-EMP (29X8)	1014118	10
US-EMP (29X8)	0829436	10
EMT (29X8)R	0817277	1
WT-UV HF 3,6X140 BK	3240832	100
WT-UV HF 4,5X200 BK	3240834	100
WT-UV HF 4,5X290 BK	3240835	100
THERMOMARK CARD-UCT-MAG26	0802988	1

Technical data		
PA		
HB		
-40 ... 100		
Halogen-free		

Ordering data		
Type	Order No.	Pcs. / Pkt.
KMK UV (60X15)	1014108	50

**Accessories**

UCT-EMP (60X15)	1014119	10
US-EMP (60X15)	0828781	10
EMT (60X15)R	0801846	1
WT-UV HF 3,6X140 BK	3240832	100
WT-UV HF 4,5X200 BK	3240834	100
WT-UV HF 4,5X290 BK	3240835	100
THERMOMARK CARD-UCT-MAG26	0802988	1

Technical data		
PA		
HB		
-40 ... 100		
Halogen-free		

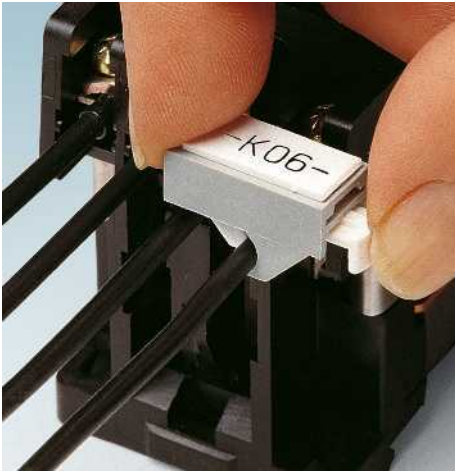
Ordering data		
Type	Order No.	Pcs. / Pkt.
KMK UV (40X17)	1014109	50

**Accessories**

UCT-EMP (40X17)	1014120	10
US-EMP (40X17)	0829437	10
EMT (40X17)R	0817293	1
WT-UV HF 3,6X140 BK	3240832	100
WT-UV HF 4,5X200 BK	3240834	100
WT-UV HF 4,5X290 BK	3240835	100
THERMOMARK CARD-UCT-MAG26	0802988	1

## Conductor and cable marking

### GKM ... conductor marker



- The GKM ... conductor markers support large-surface conductor marking
- Flexible application, thanks to spring-loaded conductor attachment
- Particularly suitable for temporary marking
- Quick and easy to use



Conductor diameter from 0 to 5.2 mm

General data	
Material	
Temperature range	[°C]
Components	

Description	Color
<b>Conductor markers</b> , lettering field size: 20 x 8 mm for conductor diameters of 0 - 2.5 mm	gray
For conductor diameters of 4.8 - 11 mm	gray

<b>Marker tags</b> , 5-section, unprinted, marking with X-PEN, B-STIFT, plotter or BKMT 20 x 8 label	
Lettering field size: 20 x 8 mm	white
Lettering field size: 20 x 8 mm	yellow
<b>UniCard</b> , for marking devices from the following manufacturers: ABB, Conta-Clip, Escha, Festo, ifm-electronik, Harting, Moeller, Phoenix Contact, Siemens	
Lettering field size: 20 x 9 mm	white
Lettering field size: 20 x 9 mm	yellow
Lettering field size: 20 x 9 mm	white
Lettering field size: 20 x 9 mm	yellow

Technical data		
PA/ABS		
-40 ... 80		
Free from silicone and halogen		

Ordering data		
Type	Order No.	Pcs. / Pkt.
<b>GKM 1 GY</b>	<b>1750498</b>	100

Accessories		
Type	Order No.	Pcs. / Pkt.
<b>SS-ZB WH</b>	<b>5031171</b>	50
<b>SS-ZB YE</b>	<b>5031650</b>	50
<b>UC-EM (20X9)</b>	<b>0825503</b>	10
<b>UC-EM (20X9) YE</b>	<b>0827637</b>	10
<b>UCT-EM (20X9)</b>	<b>0801471</b>	10
<b>UCT-EM (20X9) YE</b>	<b>0801472</b>	10





Conductor diameter from 4.8 to 11 mm

### Technical data

PA/ABS  
-40 ... 80  
Free from silicone and halogen

### Ordering data

Type	Order No.	Pcs. / Pkt.
GKM 2 GY	1750485	100

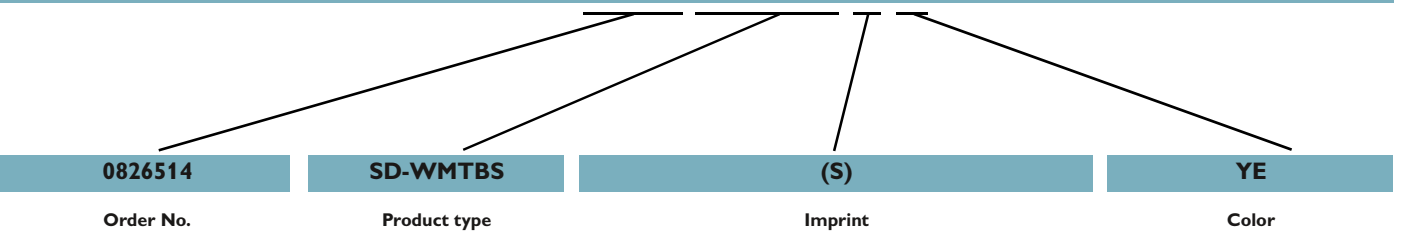
### Accessories

SS-ZB WH	5031171	50
SS-ZB YE	5031650	50
UC-EM (20X9)	0825503	10
UC-EM (20X9) YE	0827637	10
UCT-EM (20X9)	0801471	10
UCT-EM (20X9) YE	0801472	10

### Type key for SD-WMTBS ...



#### Example 0826514 SD-WMTBS (S) YE



0826637 0826514 0826611: letter 0826624: symbol 0826527	SD-WMTBS (NEUTRAL) CC SD-WMTBS (S) YE SD-WMTBS (CH) YE SD-WMTBS (SY) YE SD-WMTBS (NU) CC	(NEUTRAL) = unprinted (S) = printed with numbers 0 - 9 (CH) = letters A - Z (SY) = symbols + - / . GND (NU) = printed with numbers 0 - 9	YE = yellow YE = yellow YE = yellow YE = yellow CC = international color code
---	--	--	---

#### International color code



Print	Marker color	Font color
0	black	white
1	brown	white
2	red	white
3	orange	black
4	yellow	black
5	green	white
6	blue	white
7	violet	white
8	gray	black
9	white	black

Cable marking for carrier assembly



<b>Notes:</b>
1) For an ordering example, see page 210.
The label holder is attached using cable binders; for corresponding cable binders up to 4.8 mm wide, see page 588 onwards.



Individual marker with carrier for cable diameter > 16 mm

- Cable markers for marking cables and conductors with larger cross sections
- The printed individual markers are pushed onto the corresponding holders

<b>General data</b>	
Material	PVC
Inflammability class according to UL 94	V2
Temperature range	-30 ... 60 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Free from silicone and cadmium

<b>Technical data</b>		
-----------------------	--	--

<b>Ordering data</b>		
----------------------	--	--

Description	Color
<b>Cable marker<sup>1)</sup></b>	
<b>Unprinted</b>	international color code
<b>Printed:</b> with numbers 0-9	yellow
<b>Printed:</b> with upper case letters A-Z	yellow
<b>Printed:</b> with symbols + - / . GND	yellow
<b>International color code, printed:</b> With numbers between 0-9	international color code
<b>Label holder, for cable binders up to 4.8 mm wide</b>	
For max 7 characters	black
For max 13 characters	black

Type	Order No.	Pcs. / Pkt.
<b>SD-WMTBS (NEUTRAL) CC</b>	<b>0826637</b>	100
<b>SD-WMTBS (S) YE</b>	<b>0826514</b>	100
<b>SD-WMTBS (CH) YE</b>	<b>0826611</b>	100
<b>SD-WMTBS (SY) YE</b>	<b>0826624</b>	100
<b>SD-WMTBS (NU) CC</b>	<b>0826527</b>	100
<b>SD-WMTB (70X10)</b>	<b>0826530</b>	100
<b>SD-WMTB (100X10)</b>	<b>0826543</b>	100

## Conductor and cable marking

### Stainless steel cable marking for carrier assembly



- Cable markers for marking cables and conductors with larger cross sections
- The individual high-grade steel markers are pushed onto the corresponding holders
- They are secured using high-grade steel cable binders
- Easy assembly with UNIFOX-CT M7,9

Notes:
1) For ordering example, see page 210.
For further stainless steel cable binders, see page 594.



Stainless steel marker with carrier for assembly with cable binders

General data	
Material	
Description	Color
<b>Cable marker<sup>1)</sup></b>	
<b>Unprinted</b>	silver
<b>Printed:</b> with numbers 0-9	silver
<b>Printed:</b> with upper case letters A-Z	silver
<b>Printed:</b> with symbols + - / . GND	silver
<b>Label holder</b>	
For max 6 characters	silver
For max 9 characters	silver
For max 13 characters	silver
For max 17 characters	silver
For max. 20 characters	silver

Cable binder, made of stainless steel (AISI 304), width 4.6 mm, maximum bundle Ø [mm]/minimum tensile strength [N]	
30 / 890	silver
50 / 890	silver

Technical data		
Material		
Stainless steel		

Ordering data		
Type	Order No.	Pcs. / Pkt.
<b>SD-WMTBS (NEUTRAL) VA</b>	<b>0826666</b>	50
<b>SD-WMTBS (NU) VA</b>	<b>0826556</b>	50
<b>SD-WMTBS (CH) VA</b>	<b>0826640</b>	50
<b>SD-WMTBS (SY) VA</b>	<b>0826653</b>	50
<b>SD-WMTB (30X10) VA</b>	<b>0826569</b>	50
<b>SD-WMTB (47X10) VA</b>	<b>0826572</b>	50
<b>SD-WMTB (70X10) VA</b>	<b>0826585</b>	50
<b>SD-WMTB (92X10) VA</b>	<b>0826598</b>	50
<b>SD-WMTB (111X10) VA</b>	<b>0826608</b>	50

Accessories		
Type	Order No.	Pcs. / Pkt.
<b>WT-STEEL S 4,6X150</b>	<b>3240807</b>	100
<b>WT-STEEL S 4,6X201</b>	<b>3240808</b>	100



### High-grade steel cable marking for embossing or laser engraving



- Cable markers for marking cables and conductors with larger cross sections
- The individual high-grade steel markers are pushed onto the corresponding holders
- They are secured using high-grade steel cable binders
- Easy assembly with UNIFOX-CT M7,9

**Notes:**  
For further stainless steel cable binders, see page 594.

PRINTED  
FOR YOU



Stainless steel marker for assembly with cable binders

General data	
Material	Stainless steel 304
Description	Color
<b>Steel cable markers</b> , rustproof, non-magnetic, label size: 89 x 19 mm, lettering field size: 65 x 19 mm	silver
<b>Steel cable markers</b> , rustproof, non-magnetic, label size: 44 x 9.6 mm, lettering field size: 23 x 9 mm	silver
<b>Cable binder</b> , made of stainless steel (AISI 304), width 4.6 mm, maximum bundle Ø [mm]/minimum tensile strength [N]	silver
30 / 890	silver

Technical data		
Stainless steel 304		
Ordering data		
Type	Order No.	Pcs. / Pkt.
KMV	0806644	100
KMV 44X9,6	0812007	100
Accessories		
WT-STEEL S 4,6X150	3240807	100





- These conductor marking systems consist of marker carriers and insert labels
- The PATG ... collar is a captive marker carrier
- Can be used to mark conductors with a diameter of 0.6 ... 50 mm
- The corresponding UC-WMT ..., UCT-WMT ..., US-WMT ..., WMTW ..., and EMT ... insert labels are used for marking



Closed marker carrier, for sliding on



General data	
Material	PVC
Inflammability class according to UL 94	V0
Temperature range	-50 ... 80
Components	Silicone-free

Technical data	
----------------	--

Description	Color
-------------	-------

Ordering data		
Type	Order No.	Pcs. / Pkt.

**Conductor marker carrier, closed, 10 mm wide**

Conductor diameter: 0.6-1.2 mm	transparent	PATG 0/10	1013795	1000
Conductor diameter: 1.5-2.5 mm	transparent	PATG 1/10	1013805	1000
Conductor cross section: 2.0-4.0 mm	transparent	PATG 2/10	1013818	1000
Conductor cross section: 4.0-7.0 mm	transparent	PATG 3/10	1013821	500


**Wire marker carrier, closed, 12 mm wide**

Conductor diameter: 0.6-1.2 mm	transparent	PATG 0/12	0827076	1000
Conductor diameter: 1.5-2.5 mm	transparent	PATG 1/12	0827077	1000
Conductor cross section: 2.0-4.0 mm	transparent	PATG 2/12	0827078	1000
Conductor cross section: 4.0-7.0 mm	transparent	PATG 3/12	0827079	500
Conductor cross section: 6.0-10.0 mm	transparent	PATG 4/12	0827080	500
		PATG 5/12	0803312	200


**Conductor marker carrier, closed, 15 mm wide**

Conductor diameter: 0.6-1.2 mm	transparent	PATG 0/15	1013740	1000
Conductor diameter: 1.5-2.5 mm	transparent	PATG 1/15	1013025	1000
Conductor cross section: 2.0-4.0 mm	transparent	PATG 2/15	1013038	1000
Conductor cross section: 4.0-7.0 mm	transparent	PATG 3/15	1013041	500
Conductor cross section: 6.0-10.0 mm	transparent	PATG 4/15	1013054	500
Conductor cross section: 10.0-14.0 mm	transparent	PATG 5/15	1013067	200
Conductor cross section: 14.0-22.0 mm	transparent	PATG 6/15	1013070	200
Conductor cross section: 22.0-30.0 mm	transparent	PATG 7/15	1013083	50
Conductor cross section: 30.0-35.0 mm	transparent	PATG 8/15	1013096	50
Conductor diameter: 35.0 - 45.0 mm	transparent	PATG 9/15	1013106	50


**Wire marker carrier, closed, 18 mm wide**

Conductor diameter: 0.6-1.2 mm	transparent	PATG 0/18	0820507	1000
Conductor diameter: 1.5-2.5 mm	transparent	PATG 1/18	0820510	1000
Conductor cross section: 2.0-4.0 mm	transparent	PATG 2/18	0820523	1000
Conductor cross section: 4.0-7.0 mm	transparent	PATG 3/18	0820536	500
Conductor cross section: 6.0-10.0 mm	transparent	PATG 4/18	0820549	500
Conductor cross section: 10.0-14.0 mm	transparent	PATG 5/18	0820559	200
Conductor cross section: 14.0-22.0 mm	transparent	PATG 6/18	0828062	200


**Conductor marker carrier, closed, 23 mm wide**

Conductor diameter: 0.6-1.2 mm	transparent	PATG 0/23	0828046	1000
Conductor diameter: 1.5-2.5 mm	transparent	PATG 1/23	1013847	1000
Conductor cross section: 2.0-4.0 mm	transparent	PATG 2/23	1013850	500
Conductor cross section: 4.0-7.0 mm	transparent	PATG 3/23	1013863	500
Conductor cross section: 6.0-10.0 mm	transparent	PATG 4/23	0808011	200
Conductor cross section: 10.0-14.0 mm	transparent	PATG 5/23	0808024	200
Conductor cross section: 14.0-22.0 mm	transparent	PATG 6/23	0808037	100
Conductor cross section: 22.0-30.0 mm	transparent	PATG 7/23	0808040	50
Conductor cross section: 30.0-35.0 mm	transparent	PATG 8/23	0808053	50


**Conductor marker carrier, closed, 30 mm wide**

Conductor diameter: 1.5-2.5 mm	transparent	PATG 1/30	0822440	500
Conductor cross section: 2.0-4.0 mm	transparent	PATG 2/30	0822453	500
Conductor cross section: 4.0-7.0 mm	transparent	PATG 3/30	0822466	200
Conductor cross section: 6.0-10.0 mm	transparent	PATG 4/30	0822479	200
Conductor cross section: 10.0-14.0 mm	transparent	PATG 5/30	0822482	200


**Marking collars for insert labels**

- Can be marked using UC-WMT ..., US-WMT ..., UCT-WMT..., and WMTW plastic labels or EMT ... insert strips

**PATO ...**

- These marking collars are used for subsequent marking of systems that have already been wired

**PAB-KTL ...**

- Marking collars for identifying and bundling conductors



Open marker carrier, for clipping on



Marker carrier for assembly with cable binders

General data		Technical data			Technical data		
Material		PVC		PVC			
Inflammability class according to UL 94		V0		V0			
Temperature range	[°C]	-50 ... 80		-50 ... 80			
Components		Silicone-free		Silicone-free			
		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
<b>Conductor marker carrier, open, 10 mm wide</b>							
Conductor cross section: 2.0-3.5 mm	transparent	<b>PATO 1/10</b>	<b>1013876</b>	1000			
Conductor diameter: 2.8 - 4.4 mm	transparent	<b>PATO 2/10</b>	<b>1013889</b>	1000			
<b>Wire marker carrier, open, 12 mm wide</b>							
Conductor cross section: 2.0-3.5 mm	transparent	<b>PATO 1/12</b>	<b>0827081</b>	1000			
Conductor diameter: 2.8 - 4.4 mm	transparent	<b>PATO 2/12</b>	<b>0827082</b>	1000			
<b>Conductor marker carrier, open, 15 mm wide</b>							
Conductor cross section: 2.0-3.5 mm	transparent	<b>PATO 1/15</b>	<b>1013119</b>	1000			
Conductor diameter: 2.8 - 4.4 mm	transparent	<b>PATO 2/15</b>	<b>1013122</b>	1000			
Conductor diameter: 6.7 - 8.0 mm	transparent	<b>PATO 3/15</b>	<b>1013135</b>	500			
Conductor diameter: 6.7 - 10.0 mm	transparent	<b>PATO 4/15</b>	<b>1013148</b>	500			
<b>Wire marker carrier, open, 18 mm wide</b>							
Conductor cross section: 2.0-3.5 mm	transparent	<b>PATO 1/18</b>	<b>0823740</b>	500			
Conductor diameter: 2.8 - 4.4 mm	transparent	<b>PATO 2/18</b>	<b>0823753</b>	500			
<b>Conductor marker carrier, open, 23 mm wide</b>							
Conductor cross section: 2.0-3.5 mm	transparent	<b>PATO 1/23</b>	<b>1013892</b>	500			
Conductor diameter: 2.8 - 4.4 mm	transparent	<b>PATO 2/23</b>	<b>1013902</b>	500			
<b>Conductor marker carrier, open, 30 mm wide</b>							
Conductor cross section: 2.0-3.5 mm	transparent	<b>PATO 1/30</b>	<b>0822495</b>	500			
Conductor diameter: 2.8 - 4.4 mm	transparent	<b>PATO 2/30</b>	<b>0822505</b>	500			
<b>Cable marker carrier, lettering field along the length of cable, marking with UC-WMT and PABA..., lettering field: 30 x 4 mm, is secured with PKB cable tie</b>							
Lettering field size: 23 x 4 mm, marking with UC-WMT and PABA.../23	transparent				<b>PAB-KTL</b>	<b>1013261</b>	200
	transparent				<b>PAB-KTL 23</b>	<b>1013957</b>	200
<b>Plastic cable marker for PKE insert label, can be marked with PKE insert label, marking field: 9 mm x 20 mm, with eyelets for fastening to PKB cable ties</b>							
	transparent				<b>PKT 9X20</b>	<b>0803977</b>	240

## Conductor and cable marking

### Halogen-free marking collars for insert labels



- These conductor marking systems consist of marker carriers and insert labels
- The PATG HF... sleeve is a captive marker carrier
- Conductors with a diameter of 1.3 mm ... 10 mm can be marked with it.
- The corresponding UC-WMT... and UCT-WMT... insert labels are used for marking
- These conductor marking systems are particularly suitable for use in the railway and automotive industry, traffic technology, and building technology, thanks to their outstanding material properties
- Comprehensive approvals, such as the NF F 16-101/16-102, DIN EN 45545-2, and DIN 5510-2 ensure international use



#### Notes:

High-quality fluid printing with the BLUEMARK is required when using the UC-WMT... insert labels.

new



Closed marker carrier, for sliding on

#### General data

Material	TPU
Inflammability class according to UL 94	V0
Temperature range	-40 ... 100 [°C]
Components	free from silicone, halogen, and cadmium

#### Technical data

Material	TPU
Inflammability class according to UL 94	V0
Temperature range	-40 ... 100 [°C]
Components	free from silicone, halogen, and cadmium

#### Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
<b>Conductor marker carrier, closed, 10 mm wide</b>				
Cable diameter: 1.3 - 2.8 mm	transparent/black	PATG HF 1/10	1014044	1000
Cable diameter: 2.0 - 4.0 mm	transparent/black	PATG HF 2/10	1014050	1000
Cable diameter: 4.0 - 7.0 mm	transparent/black	PATG HF 3/10	1014056	500
<b>Wire marker carrier, closed, 12 mm wide</b>				
Cable diameter: 1.3 - 2.8 mm	transparent/black	PATG HF 1/12	1014045	1000
Cable diameter: 2.0 - 4.0 mm	transparent/black	PATG HF 2/12	1014051	1000
Cable diameter: 4.0 - 7.0 mm	transparent/black	PATG HF 3/12	1014057	500
Cable diameter: 5.0 - 10.0 mm	transparent/black	PATG HF 4/12	1014063	500
<b>Conductor marker carrier, closed, 15 mm wide</b>				
Cable diameter: 1.3 - 2.8 mm	transparent/black	PATG HF 1/15	1014046	1000
Cable diameter: 2.0 - 4.0 mm	transparent/black	PATG HF 2/15	1014052	1000
Cable diameter: 4.0 - 7.0 mm	transparent/black	PATG HF 3/15	1014058	500
Cable diameter: 5.0 - 10.0 mm	transparent/black	PATG HF 4/15	1014064	500
<b>Wire marker carrier, closed, 18 mm wide</b>				
Cable diameter: 1.3 - 2.8 mm	transparent/black	PATG HF 1/18	1014047	1000
Cable diameter: 2.0 - 4.0 mm	transparent/black	PATG HF 2/18	1014053	1000
Cable diameter: 4.0 - 7.0 mm	transparent/black	PATG HF 3/18	1014059	500
Cable diameter: 5.0 - 10.0 mm	transparent/black	PATG HF 4/18	1014065	500
<b>Conductor marker carrier, closed, 23 mm wide</b>				
Cable diameter: 1.3 - 2.8 mm	transparent/black	PATG HF 1/23	1014048	1000
Cable diameter: 2.0 - 4.0 mm	transparent/black	PATG HF 2/23	1014054	500
Cable diameter: 4.0 - 7.0 mm	transparent/black	PATG HF 3/23	1014060	500
Cable diameter: 5.0 - 10.0 mm	transparent/black	PATG HF 4/23	1014066	200
<b>Conductor marker carrier, closed, 30 mm wide</b>				
Cable diameter: 1.3 - 2.8 mm	transparent/black	PATG HF 1/30	1014049	500
Cable diameter: 2.0 - 4.0 mm	transparent/black	PATG HF 2/30	1014055	500
Cable diameter: 4.0 - 7.0 mm	transparent/black	PATG HF 3/30	1014061	200
Cable diameter: 5.0 - 10.0 mm	transparent/black	PATG HF 4/30	1014067	200





# Marking and labeling - MARKING system

## Conductor and cable marking

### Overview of conductor and cable marking

Markers for marking with TOPMARK LASER, BLUEMARK..., THERMOMARK... or plotters



Conductor diameter [mm]	Stainless steel and aluminum labels				Aluminum labels				Conductor clips								Ferrules (dimensions in mm <sup>2</sup> )									
	Page 160				Page 160				Page 162								Page 169									
	LS-WMTB-... (29X8)	LS-WMTB-... (40X15)	LS-WMTB-... (60X15)	LS-WMTB-... (100x15)	LS-WMTB-... (D25)	LS-WMTB-... (D30)	WMTB-AL (29X8)	WMTB-AL (40X15)	WMTB-AL (60X15)	WMTB-AL (D30)	UC-WMC 1,9...	UC-WMC 3,1...	UC-WMC 4,4...	UC-WMC 5,6...	UC-WMC 7,5...	UC-WMCO 1,6...	UC-WMCO 2,1...	UC-WMCO 2,9...	UC-WMCO 3,6...	UC-WMCO 4,9...	Al-WM 0,5-8 WH	Al-WM 0,75-8 GY	Al-WM 1-8 RD	Al-WM 1,5-8 WH	Al-WM 2,5-8 BU	
0.5																										
1.0																						0.5	0.75	1.0	1.5	2.5
1.5											1.2					1.3										
2.0											1.9					1.6										
2.5												1.9				2.1										
3.0													2.8				2.1									
3.5	> 2.9												3.1				2.9									
4.0													2.8					2.9								
4.5													4.4					3.6								
5.0		> 4.6	> 4.6	> 4.6										4.2				3.6								
5.5														5.6	5.0				4.9							
6.0																										
7.0																										
8.0														7.5												
9.0																										
10.0																										
12.0																										
14.0																										
16.0																										
18.0																										
20.0																										
22.0																										
24.0																										
26.0																										
28.0																										
30.0																										
35.0																										
40.0																										
45.0																										
50.0	> 50	> 50	> 50	> 50			> 50	> 50	> 50	> 50																



Conductor marker		Marking collars in conjunction with UC-WMT ... / EMT ... / US-WMT ... / WMTW ... / UCT-WMT...
for assembly with cable binders	for threading on	
Page 172	Page 176	Page 214

UC-WMTB ...	UC-WMTBA (24x5)...	UC-WMTBA (29x8)...	UC-WMTBA (60x11)...	UCT-WMS 3,2...	UCT-WMS 4,7...	PATG 0/...	PATG 1/...	PATG 2/...	PATG 3/...	PATG 4/...	PATG 5/...	PATG 6/...	PATG 7/...	PATG 8/...	PATG 9/...	PATO 1/...	PATO 2/...	PATO 3/...	PATO 4/...	PAB-KTL
> 50	> 50	> 50	> 50			0.6														
						1.2														
				1.5			1.5									2.0				
				3.2	2.5		2.5	2.0								3.5				
	4.0				4.7			4.0									2.8			
									4.0								4.4			
		6.0	6.0						7.0	6.0								6.7		> 6.0
										10.0									10.0	
											10.0									
												14.0								
													22.0							
														22.0						
															30.0					
																30.0	35.0			
																	45			
																				> 50

## Conductor and cable marking

### Overview of conductor and cable marking

Markers for marking with THERMOMARK...  
or laser printers



Conductor diameter [mm]	Cable markers for threading on			Cable marker labels									
	Page 182			Page 185									
	US-WMTB (24X5)	US-WMTB (29X8)	US-WMTB (44X15)	WML 3...	WML 5...	WML 6... / US-WML 6...	WML 7,5...	WML 12...	WML 14... / US-WML 14...	WML 18...	WML 22...	WML 36... / US-WML 36...	WML 46...
0.5													
1.0													
1.5													
2.0													
2.5				2.0	2.0								
3.0				3.0						2.5			
3.5						3.0	3.0						
4.0													
4.5			> 4.0										
5.0					5.0								
5.5								5.0	5.0				
6.0						6.0							
7.0							7.5						
8.0											7.0		
9.0													
10.0													
12.0								12.0					
14.0									14.0				
16.0	> 13.0	> 13.0										11.0	11.0
18.0										18.0			
20.0													
22.0											22.0		
24.0													
26.0													
28.0													
30.0													
35.0												36.0	
40.0													
45.0													46.0
50.0	> 50	> 50	> 50										





# Device marking - MARKING system

Identifying electrical and electronic control cabinets does not just make service work easier. In some sectors, it is actually a mandatory requirement. Moreover, equipment identification improves the quality of the control cabinets and systems.

Phoenix Contact provides a variety of different markers for device marking. From adhesive labels to high-quality engraving labels, the wide marker range caters for every application.

A variety of printing systems is available for marking or engraving.

## Product range overview

---

### Device marking 224

---

#### LS-EM... stainless steel, aluminum, plastic, and laser foil device marking

Designed to be stuck on, screwed in or riveted or snapped into marker carriers 226

---

#### Aluminum EM... AL and stainless steel EM...-V4A device marking

Designed to be stuck on, screwed in or riveted or snapped into marker carriers 237

---

#### UniCard UC-EM... and UCT-EM... device marking

Designed to be stuck on, screwed in or riveted or snapped into marker carriers 240

Snap-in, for devices from Phoenix Contact and other manufacturers 248

---

#### UniSheet US-EM... device marking

Designed to be stuck on, screwed in or riveted or snapped into marker carriers, labels, and combi labels 254

---

#### EM... device marking, labels supplied in rolls

Labels for buttons, continuous and textile labels, labels for rough surfaces, for high-temperature and ESD applications, removable labels, labels with anti-tamper protection 264

Insert strips for devices from Phoenix Contact and other manufacturers 280

---

#### BMK... device marking, labels supplied as DIN A sheets 282

---

#### GPE... and EMLP... device marking, markers for printing or engraving 284

---

#### Marker carriers and profiles 286

---

#### Device marking overview

The right marking solution for every device

Phoenix Contact 292

Other manufacturers 294



Explicit marking of electrical and electronic control cabinet components is essential for safe and efficient work. As with comprehensive technical documentation, marking all operating equipment increases the availability of the switchgear and simplifies maintenance.

Last but not least, equipment identification improves the quality of the control cabinets and systems. Phoenix Contact provides a wide range of labels and tags. Depending on the type, they can be marked using BLUEMARK, thermal transfer printers, the plotter, engraving devices, commercially available desktop laser printers or by hand.

With the TOPMARK laser marker you can implement resistant, durable marking on high-quality materials in industrial environments.

For the BLUEMARK CLED and THERMOMARK CARD, there is a complete range of plastic labels available for control cabinets as well as for buttons and switchgear.

The labels of all the various printing systems feature a high level of wipe and scratch resistance.

The self-adhesive labels are made from a two-layer material and are highly durable, e.g., where buttons and switches are subject to frequent use. The best way to mark these labels is to use the engraving device of the CMS-P1-PLOTTER plotter.

Please contact us, if you are unable to find a suitable size or color for your application from the options available in our product range.

It goes without saying that Phoenix Contact also provides a comprehensive engraving and marking service for device marking applications. Test us out!





Device markers are available in various sizes, materials, and colors. The self-adhesive labels have been designed for use in a wide temperature range.



Drilled labels are available for marking devices and control cabinets. These can be securely attached to the device using screws or rivets.



The CARRIER marking system is the perfect choice for marking buttons. It consists of a carrier plus marking label and can be used in control cabinets as well as in the field.



High-temperature labels are ideal for marking PCBs. These labels can safely and permanently withstand temperatures of  $-40^{\circ}\text{C}$  to  $180^{\circ}\text{C}$ ; or a temperature of  $300^{\circ}\text{C}$  for up to 60 seconds.



Tamper-proof labels are used as rating plates or seals. When they are peeled off, part of the metallic layer comes away, leaving behind a pattern on both the label and the surface.



GPE label sheets consist of a two-layer material that is ideal for engraving. However, the pre-fabricated self-adhesive labels can also be marked directly by hand or using a plotter.



In the case of small print volumes, labels can also be printed using commercially available desktop laser printers. Copy sheets are provided with margins to make it easier to remove individual labels.



The self-adhesive markers are available in various shapes and sizes. They can be used to mark components, devices, and buttons and are highly resistant to chemical and mechanical effects.



Self-adhesive marker carriers are used in conjunction with marking labels for the purpose of marking devices and modules. The carriers can be stuck onto all standard surfaces.

## Device marking

### Stainless steel and aluminum device marking for screwing or riveting

Can be marked using:



Direct laser marking

PRINTED  
FOR YOU



Stainless steel, material thickness: 0.5 mm

- The LS-EMSP ... product range is available in stainless steel (V4A) or aluminum and includes markers that can be quickly and easily fitted with screws or rivets
- The LS-EMSP-V4A ... group is particularly characterized by its high resistance to saltwater, chloride, and solvents and is therefore also suitable for the most demanding industrial requirements
- The LS-EMSP-V4A ... product group can be permanently marked in two ways: by engraving or annealing
- By selecting the material in the CLIP PROJECT planning and configuration software, the correct laser parameters are automatically passed to the TOPMARK LASER
- **Designation example:**  
**LS-EMSP-V4A (39x15)**  
Lettering field size: 39 x 15 mm

Notes:
For matching rivets for securing the LS-EMSP-V4A ... and LS-EMSP-AL ..., see page 368 or the product area on our website at <a href="http://phoenixcontact.net/products">phoenixcontact.net/products</a> .
For drilling diagrams, visit <a href="http://phoenixcontact.net/products">phoenixcontact.net/products</a> .
1) From lettering field size 110 x 80 to 170 x 180 mm, the material thickness is 1.5 mm.

General data
Can be marked using
Material
Wipe resistance
Components

Description
<b>Marking label</b> , with mounting holes 3.2 mm in diameter
24-section
16-section
10-section
6-section
2-section
2-section
2-section
1-section
1-section
<b>Marking label</b> , with mounting holes 3.2 mm in diameter
10-section, red
10-section, orange
10-section, blue
10-section, green
6-section, red
6-section, orange
6-section, blue
6-section, green

<b>Sheet hopper</b> , for TOPMARK LASER
---

Technical data
TOPMARK LASER
V4A
DIN EN 61010-1 (VDE 0411-1)
free from silicone, halogen, and cadmium

Ordering data		
Type	Order No.	Pcs. / Pkt.
LS-EMSP-V4A (39X15)	0831653	5
LS-EMSP-V4A (50X15)	0831654	5
LS-EMSP-V4A (50X30)	0831655	5
LS-EMSP-V4A (75,6X54)	0831656	5
LS-EMSP-V4A (90X60)	0831657	5

Accessories		
TOPMARK LASER-MAG SHEET	0831836	1

PRINTED  
FOR YOU



Aluminum, material thickness: 0.8 mm<sup>1</sup>)

PRINTED  
FOR YOU



Aluminum, black, material thickness: 0.8 mm<sup>1</sup>)

PRINTED  
FOR YOU



Aluminum, colored, material thickness: 0.8 mm

**Technical data**

TOPMARK LASER  
Aluminum  
DIN EN 61010-1 (VDE 0411-1)  
free from silicone, halogen, and cadmium

**Ordering data**

Type	Order No.	Pcs. / Pkt.
LS-EMSP-AL (39X15)	0831615	5
LS-EMSP-AL (50X15)	0831616	5
LS-EMSP-AL (50X30)	0831617	5
LS-EMSP-AL (75,6X54)	0831618	5
LS-EMSP-AL (90X60)	0831619	5
LS-EMSP-AL (110X80)	0831620	5
LS-EMSP-AL (150X80)	0831621	5
LS-EMSP-AL (150X120)	0831622	5
LS-EMSP-AL (170X180)	0831623	5

**Accessories**

TOPMARK LASER-MAG SHEET	0831836	1
-------------------------	---------	---

**Technical data**

TOPMARK LASER  
Aluminum  
DIN EN 61010-1 (VDE 0411-1)  
free from silicone, halogen, and cadmium

**Ordering data**

Type	Order No.	Pcs. / Pkt.
LS-EMSP-AL (39X15) BK	0831626	5
LS-EMSP-AL (50X15) BK	0831627	5
LS-EMSP-AL (50X30) BK	0831628	5
LS-EMSP-AL (75,6X54) BK	0831629	5
LS-EMSP-AL (90X60) BK	0831630	5
LS-EMSP-AL (110X80) BK	0831631	5
LS-EMSP-AL (150X80) BK	0831632	5
LS-EMSP-AL (150X120) BK	0831633	5
LS-EMSP-AL (170X180) BK	0831634	5

**Accessories**

TOPMARK LASER-MAG SHEET	0831836	1
-------------------------	---------	---

**Technical data**

TOPMARK LASER  
Aluminum  
DIN EN 61010-1 (VDE 0411-1)  
free from silicone, halogen, and cadmium

**Ordering data**

Type	Order No.	Pcs. / Pkt.
LS-EMSP-AL (50X30) RD	0831637	5
LS-EMSP-AL (50X30) OG	0831641	5
LS-EMSP-AL (50X30) BU	0831645	5
LS-EMSP-AL (50X30) GN	0831649	5
LS-EMSP-AL (75,6X54) RD	0831638	5
LS-EMSP-AL (75,6X54) OG	0831642	5
LS-EMSP-AL (75,6X54) BU	0831646	5
LS-EMSP-AL (75,6X54) GN	0831650	5

**Accessories**

TOPMARK LASER-MAG SHEET	0831836	1
-------------------------	---------	---

## Device marking

### Adhesive aluminum device marking

Can be marked using:



Direct laser marking

PRINTED  
FOR YOU



Aluminum, material thickness: 0.8 mm

- The aluminum LS-EMLP-AL ... product range includes self-adhesive device markers with a high adhesive strength
- The use of modern laser technology creates highly resistant and permanent marking, which can only be removed by destroying the material
- By selecting the material in the CLIP PROJECT planning and configuration software, the correct laser parameters are automatically passed to the TOPMARK LASER
- **Designation example:**  
**LS-EMLP-AL (27x15)**  
Lettering field size: 27 x 15 mm
- Marking service: Phoenix Contact can custom-mark all markers according to your requirements

#### General data

Can be marked using  
Material  
Wipe resistance  
Components

#### Technical data

TOPMARK LASER  
Aluminum  
DIN EN 61010-1 (VDE 0411-1)  
free from silicone, halogen, and cadmium

#### Description

**Marking label, aluminum, self-adhesive**

40-section  
35-section  
24-section  
16-section  
10-section  
6-section  
2-section

**Marking label, aluminum, self-adhesive**

10-section, red  
10-section, orange  
10-section, blue  
10-section, green  
6-section, red  
6-section, orange  
6-section, blue  
6-section, green

#### Ordering data

Type	Order No.	Pcs. / Pkt.
LS-EMLP-AL (27X15)	0831580	5
LS-EMLP-AL (27X18)	0831581	5
LS-EMLP-AL (49X15)	0831582	5
LS-EMLP-AL (60X15)	0831583	5
LS-EMLP-AL (60X30)	0831584	5
LS-EMLP-AL (85,6X54)	0831585	5
LS-EMLP-AL (100X60)	0831586	5

#### Sheet hopper, for TOPMARK LASER

#### Accessories

TOPMARK LASER-MAG SHEET	0831836	1
-------------------------	---------	---



PRINTED  
FOR YOU



Aluminum, black, material thickness: 0.8 mm

PRINTED  
FOR YOU



Aluminum, colored, material thickness: 0.8 mm

**Technical data**

TOPMARK LASER  
Aluminum  
DIN EN 61010-1 (VDE 0411-1)  
free from silicone, halogen, and cadmium

**Ordering data**

Type	Order No.	Pcs. / Pkt.
LS-EMLP-AL (27X15) BK	0831589	5
LS-EMLP-AL (27X18) BK	0831590	5
LS-EMLP-AL (49X15) BK	0831591	5
LS-EMLP-AL (60X15) BK	0831592	5
LS-EMLP-AL (60X30) BK	0831593	5
LS-EMLP-AL (85,6X54) BK	0831594	5
LS-EMLP-AL (100X60) BK	0831595	5

**Accessories**

TOPMARK LASER-MAG SHEET	0831836	1
-------------------------	---------	---

**Technical data**

TOPMARK LASER  
Aluminum  
DIN EN 61010-1 (VDE 0411-1)  
free from silicone, halogen, and cadmium

**Ordering data**

Type	Order No.	Pcs. / Pkt.
LS-EMLP-AL (60X30) RD	0831598	5
LS-EMLP-AL (60X30) OG	0831602	5
LS-EMLP-AL (60X30) BU	0831606	5
LS-EMLP-AL (60X30) GN	0831610	5
LS-EMLP-AL (85,6X54) RD	0831599	5
LS-EMLP-AL (85,6X54) OG	0831603	5
LS-EMLP-AL (85,6X54) BU	0831607	5
LS-EMLP-AL (85,6X54) GN	0831611	5

**Accessories**

TOPMARK LASER-MAG SHEET	0831836	1
-------------------------	---------	---

## Device marking

### Aluminum device marking for snapping into marker carriers



- The aluminum LS-EMP-AL ... product range includes markers that can be quickly and easily fitted into existing CARRIER-EMP ... label frames
- The use of modern laser technology creates highly resistant and permanent marking, which can only be removed by destroying the material
- By selecting the material in the CLIP PROJECT planning and configuration software, the correct laser parameters are automatically passed to the TOPMARK LASER
- **Designation example:**  
**LS-EMP-AL (27x15)**  
Lettering field size: 27 x 15 mm
- Marking service: Phoenix Contact can custom-mark all markers according to your requirements

Can be marked using:



Direct laser marking

PRINTED  
FOR YOU



Aluminum, material thickness: 0.8 mm

#### General data

Can be marked using  
Material  
Wipe resistance  
Components

#### Description

**Marking label**, aluminum, can be snapped into marker carriers

40-section  
35-section  
24-section  
16-section  
10-section  
6-section  
2-section

#### Sheet hopper, for TOPMARK LASER

#### Marker carriers, for snap-in labels

Marker size: 27 x 15 mm  
Marker size: 49 x 15 mm  
Marker size: 60 x 15 mm  
Marker size: 60 x 30 mm  
Marker size: 85 x 54 mm

#### Marker carriers, for snap-in labels, for buttons and switches 22 mm in diameter

Marker size: 27 x 15 mm  
Marker size: 27 x 18 mm

#### Technical data

TOPMARK LASER  
Aluminum  
DIN EN 61010-1 (VDE 0411-1)  
free from silicone, halogen, and cadmium

#### Ordering data

Type	Order No.	Pcs. / Pkt.
LS-EMP-AL (27X15)	0831661	5
LS-EMP-AL (27X18)	0831662	5
LS-EMP-AL (49X15)	0831663	5
LS-EMP-AL (60X15)	0831664	5
LS-EMP-AL (60X30)	0831665	5
LS-EMP-AL (85,6X54)	0831666	5
LS-EMP-AL (100X60)	0831667	5

#### Accessories

TOPMARK LASER-MAG SHEET	Order No.	Pcs. / Pkt.
TOPMARK LASER-MAG SHEET	0831836	1
CARRIER-EMP (27X15)	0827451	80
CARRIER-EMP (49X15)	0827452	40
CARRIER-EMP (60X15)	0827453	40
CARRIER-EMP (60X30)	0827454	30
CARRIER-EMP (85,6X54)	0829365	10
CARRIER-EMP 22 (27X15)	0827447	50
CARRIER-EMP 22 (27X18)	0827448	50



PRINTED  
FOR YOU



Aluminum, black, material thickness: 0.8 mm

**Technical data**

TOPMARK LASER  
Aluminum  
DIN EN 61010-1 (VDE 0411-1)  
free from silicone, halogen, and cadmium

**Ordering data**

Type	Order No.	Pcs. / Pkt.
LS-EMP-AL (27X15) BK	0831669	5
LS-EMP-AL (27X18) BK	0831670	5
LS-EMP-AL (49X15) BK	0831671	5
LS-EMP-AL (60X15) BK	0831672	5
LS-EMP-AL (60X30) BK	0831673	5
LS-EMP-AL (85,6X54) BK	0831674	5
LS-EMP-AL (100X60) BK	0831675	5

**Accessories**

TOPMARK LASER-MAG SHEET	0831836	1
CARRIER-EMP (27X15)	0827451	80
CARRIER-EMP (49X15)	0827452	40
CARRIER-EMP (60X15)	0827453	40
CARRIER-EMP (60X30)	0827454	30
CARRIER-EMP (85,6X54)	0829365	10
CARRIER-EMP 22 (27X15)	0827447	50
CARRIER-EMP 22 (27X18)	0827448	50

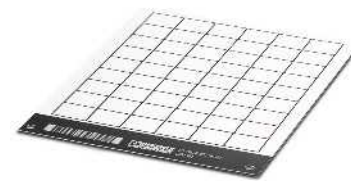
## Device marking

### Plastic adhesive device marking

Can be marked using:



Direct laser marking



TRANSPLY-ABS, white, material thickness: 0.8 mm

- The LS-EMLP ... product range includes self-adhesive double-layer plastic device markers
- A wide range of different marker sizes is available for custom designs
- By selecting the material in the CLIP PROJECT planning and configuration software, the correct laser parameters are automatically passed to the TOPMARK LASER
- **Designation example:**  
**LS-EMLP (11x9) SR**  
Lettering field size: 11 x 9 mm, silver material with black marking

General data	
Can be marked using	TOPMARK LASER
Material	TRANSPLY-ABS
Temperature range	-20 ... 85 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Free from silicone and halogen

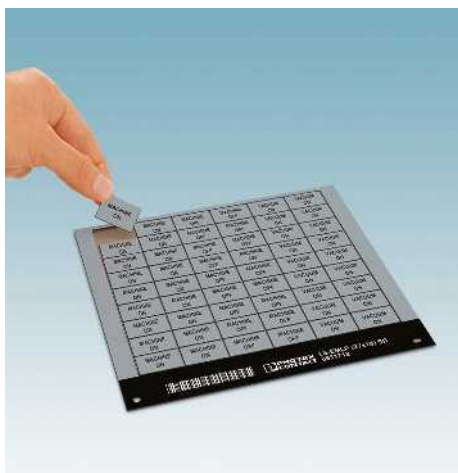
Technical data	
TOPMARK LASER	
TRANSPLY-ABS	
-20 ... 85	
DIN EN 61010-1 (VDE 0411-1)	
Free from silicone and halogen	

Description	
<b>Plastic label sheet</b> , self-adhesive, double-layer plastic labels	
1 sheet = 255 labels	
1 sheet = 221 labels	
1 sheet = 220 labels	
1 sheet = 170 labels	
1 sheet = 130 labels	
1 sheet = 100 labels	
1 sheet = 176 labels	
1 sheet = 160 labels	
1 sheet = 104 labels	
1 sheet = 56 labels	
1 sheet = 120 labels	
1 sheet = 78 labels	
1 sheet = 60 labels	
1 sheet = 54 labels	
1 sheet = 36 labels	
1 sheet = 33 labels	
1 sheet = 30 labels	
1 sheet = 30 labels	
1 sheet = 20 labels	
1 sheet = 10 labels	
1 sheet = 6 labels	
1 sheet = 2 labels	

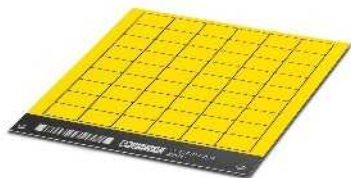
Ordering data		
Type	Order No.	Pcs. / Pkt.
LS-EMLP (11X9) WH	0831678	10
LS-EMLP (13X9) WH	0831679	10
LS-EMLP (17X7) WH	0831680	10
LS-EMLP (17X9) WH	0831681	10
LS-EMLP (17,5X12) WH	0831682	10
LS-EMLP (17,5X15) WH	0831683	10
LS-EMLP (20X7) WH	0831684	10
LS-EMLP (20X8) WH	0831685	10
LS-EMLP (22X12) WH	0831686	10
LS-EMLP (22X22) WH	0831687	10
LS-EMLP (27X8) WH	0831688	10
LS-EMLP (27X12,5) WH	0831689	10
LS-EMLP (27X15) WH	0831690	10
LS-EMLP (27X18) WH	0831691	10
LS-EMLP (27X27) WH	0831692	10
LS-EMLP (45X14) WH	0831693	10
LS-EMLP (45X15) WH	0831694	10
LS-EMLP (49X15) WH	0831695	10
LS-EMLP (60X15) WH	0831696	10
LS-EMLP (60X30) WH	0831697	10
LS-EMLP (85,6X54) WH	0831698	10
LS-EMLP (100X60) WH	0831699	10

Sheet hopper, for TOPMARK LASER	

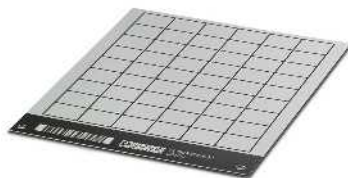
Accessories		
TOPMARK LASER-MAG SHEET	0831836	1







**TRANSPLY-ABS, yellow,**  
material thickness: 0.8 mm



**TRANSPLY-ABS, silver,**  
material thickness: 0.8 mm

**Technical data**

TOPMARK LASER  
TRANSPLY-ABS  
-20 ... 85  
DIN EN 61010-1 (VDE 0411-1)  
Free from silicone and halogen

**Technical data**

TOPMARK LASER  
TRANSPLY-ABS  
-20 ... 85  
DIN EN 61010-1 (VDE 0411-1)  
Free from silicone and halogen

**Ordering data**

Type	Order No.	Pcs. / Pkt.
LS-EMLP (11X9) YE	0831732	10
LS-EMLP (13X9) YE	0831733	10
LS-EMLP (17X7) YE	0831734	10
LS-EMLP (17X9) YE	0831735	10
LS-EMLP (17,5X12) YE	0831736	10
LS-EMLP (17,5X15) YE	0831737	10
LS-EMLP (20X7) YE	0831738	10
LS-EMLP (20X8) YE	0831739	10
LS-EMLP (22X12) YE	0831740	10
LS-EMLP (22X22) YE	0831741	10
LS-EMLP (27X8) YE	0831742	10
LS-EMLP (27X12,5) YE	0831743	10
LS-EMLP (27X15) YE	0831744	10
LS-EMLP (27X18) YE	0831745	10
LS-EMLP (27X27) YE	0831746	10
LS-EMLP (45X14) YE	0831747	10
LS-EMLP (45X15) YE	0831748	10
LS-EMLP (49X15) YE	0831749	10
LS-EMLP (60X15) YE	0831750	10
LS-EMLP (60X30) YE	0831751	10
LS-EMLP (85,6X54) YE	0831752	10
LS-EMLP (100X60) YE	0831753	10

**Ordering data**

Type	Order No.	Pcs. / Pkt.
LS-EMLP (11X9) SR	0831705	10
LS-EMLP (13X9) SR	0831706	10
LS-EMLP (17X7) SR	0831707	10
LS-EMLP (17X9) SR	0831708	10
LS-EMLP (17,5X12) SR	0831709	10
LS-EMLP (17,5X15) SR	0831710	10
LS-EMLP (20X7) SR	0831711	10
LS-EMLP (20X8) SR	0831712	10
LS-EMLP (22X12) SR	0831713	10
LS-EMLP (22X22) SR	0831714	10
LS-EMLP (27X8) SR	0831715	10
LS-EMLP (27X12,5) SR	0831716	10
LS-EMLP (27X15) SR	0831717	10
LS-EMLP (27X18) SR	0831718	10
LS-EMLP (27X27) SR	0831719	10
LS-EMLP (45X14) SR	0831720	10
LS-EMLP (45X15) SR	0831721	10
LS-EMLP (49X15) SR	0831722	10
LS-EMLP (60X15) SR	0831723	10
LS-EMLP (60X30) SR	0831724	10
LS-EMLP (85,6X54) SR	0831725	10
LS-EMLP (100X60) SR	0831726	10

**Accessories**

Accessories	Order No.	Pcs. / Pkt.
TOPMARK LASER-MAG SHEET	0831836	1

**Accessories**

Accessories	Order No.	Pcs. / Pkt.
TOPMARK LASER-MAG SHEET	0831836	1

## Device marking

### Stick-on device marking, plastic, with hole for switch

Can be marked using:



Direct laser marking

PRINTED  
FOR YOU



TRANSPLY-ABS, colored, material thickness: 0.8 mm

- The LS-EMLP 24/ 30/ 32 ... product range includes self-adhesive double-layer plastic device markers with a hole for the switch
- A wide range of different marker sizes is available for custom designs
- By selecting the material in the CLIP PROJECT planning and configuration software, the correct laser parameters are automatically passed to the TOPMARK LASER
- **Designation example:**  
**LS-EMLP 24 (30x12) WH**  
Lettering field size: 30 x 12 mm  
Hole diameter for switch: 24 mm, white material with black marking
- Marking service: Phoenix Contact can custom-mark all markers according to your requirements

General data	
Can be marked using	TOPMARK LASER
Material	TRANSPLY-ABS
Temperature range	-20 ... 85 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Free from silicone and halogen

Technical data		
----------------	--	--

Description	Color
<b>Plastic label sheet</b> , with hole for switch, diameter 24 mm, self-adhesive double-layer plastic labels	
1 sheet = 20 labels	white
1 sheet = 20 labels	yellow
1 sheet = 20 labels	silver
<b>Plastic label sheet</b> , with hole for switch, diameter 30 mm, self-adhesive double-layer plastic labels	
1 sheet = 9 labels	white
1 sheet = 9 labels	yellow
1 sheet = 9 labels	silver
<b>Plastic label sheet</b> , with hole for switch, diameter 32 mm, self-adhesive double-layer plastic labels	
1 sheet = 12 labels	white
1 sheet = 12 labels	yellow
1 sheet = 12 labels	silver

Ordering data		
---------------	--	--

Type	Order No.	Pcs. / Pkt.
LS-EMLP 24 (30X12) WH	0831700	10
LS-EMLP 24 (30X12) YE	0831754	10
LS-EMLP 24 (30X12) SR	0831727	10
LS-EMLP 30 (45X10) WH	0831701	10
LS-EMLP 30 (45X10) YE	0831755	10
LS-EMLP 30 (45X10) SR	0831728	10
LS-EMLP 32 (38X14) WH	0831702	10
LS-EMLP 32 (38X14) YE	0831756	10
LS-EMLP 32 (38X14) SR	0831729	10

Sheet hopper, for TOPMARK LASER
---------------------------------

Accessories		
-------------	--	--

TOPMARK LASER-MAG SHEET	0831836	1
-------------------------	---------	---



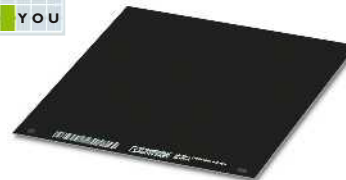
Laser foil adhesive device marking

Can be marked using:



Direct laser marking

PRINTED  
FOR YOU



Polyacrylate, black-white

- The LS-EML ... product range includes self-adhesive, double-layer plastic foil labels that can be custom designed
- The laser foil is characterized by its high heat resistance and particularly strong adhesive properties
- By selecting the material in the CLIP PROJECT planning and configuration software, the correct laser parameters are automatically passed to the TOPMARK LASER
- **Designation example:**  
**LS-EML (180x180) BK-WH**  
Lettering field size: 180 x 180 mm, can be custom designed, black material with white marking
- Marking service: Phoenix Contact can custom-mark all markers according to your requirements

General data	
Can be marked using	
Material	
Temperature range	[-40 ... 300] [°C]
Wipe resistance	
Components	

Technical data	
TOPMARK LASER	
Polyacrylate	
-40 ... 300	
DIN EN 61010-1 (VDE 0411-1)	
Free from silicone and halogen	

Description	
Laser foil, double-layer plastic foil, for custom label design	
Lettering field size: 180 x 180 mm	

Ordering data		
Type	Order No.	Pcs. / Pkt.
LS-EML (180X180) BK-WH	0831784	10

Sheet hopper, for TOPMARK LASER
---------------------------------

Accessories		
	Order No.	Pcs. / Pkt.
TOPMARK LASER-MAG SHEET	0831836	1



## Device marking

### Stick-on aluminum device marking



- The aluminum EMLP-AL... product range includes self-adhesive device markers with a high adhesive strength and is characterized by:
- The markers can be marked quickly, easily, and cost-effectively with the BLUEMARK CLED
- Marking service: Phoenix Contact can custom-mark EMLP ... markers according to your requirements

- A wide range of different marker sizes is available for custom designs. Formats from 27 x 15 to 100 x 60 mm cover the entire range of device and system marking

Can be marked using:



UV LED technology

#### General data

Can be marked using  
Material  
Wipe resistance

Description	Color
<b>Marking label, aluminum</b> , self-adhesive, can be snapped in, 0.8 mm thick	
Lettering field size: 27 x 15 mm	aluminum
Lettering field size: 27 x 18 mm	aluminum
Lettering field size: 49 x 15 mm	aluminum
Lettering field size: 60 x 15 mm	aluminum
Lettering field size: 60 x 30 mm	aluminum
Lettering field size: 85.6 x 54 mm	aluminum
Lettering field size: 100 x 60 mm	aluminum



- By using modern UV LED printing technology, a highly resistant and optimum printing quality can be achieved, which is resistant to solvents and suitable for use even under harsh industrial conditions

- In conjunction with magazines, optimum printing accuracy is guaranteed

#### Magazine, for BLUEMARK CLED

for accommodating EMP-AL (27X15), EMLP-AL (27X15)

for accommodating EMP-AL (27X18), EMLP-AL (27X18)

for accommodating EMP-AL (49X15), EMLP-AL (49X15), EMSP-AL (39X15)

for accommodating EMP-AL (60X15), EMLP-AL (60X15), EMSP-AL (50X15)

for accommodating EMP-AL (60X30), EMLP-AL (60X30), and ...-EX versions, EMSP-AL (50X30)

for accommodating EMP-AL (85,6X54), EMLP-AL (85,6X54), and ...-EX versions, EMSP-AL (75,6X54)

for accommodating EMLP-AL (100X60) and ...-EX versions, EMSP-AL (90X60)

PRINTED  
FOR YOU



Aluminum, material thickness: 0.8 mm

**Technical data**

BLUEMARK CLED  
Aluminum  
DIN EN 61010-1 (VDE 0411-1)

**Ordering data**

Type	Order No.	Pcs. / Pkt.
EMLP-AL (27X15)	0830508	90
EMLP-AL (27X18)	0830509	90
EMLP-AL (49X15)	0830511	45
EMLP-AL (60X15)	0830512	45
EMLP-AL (60X30)	0830513	45
EMLP-AL (85,6X54)	0830514	15
EMLP-AL (100X60)	0830515	15

**Accessories**

BLUEMARK MAG EM-M (27X15)	0802736	1
BLUEMARK MAG EM-M (27X18)	0802737	1
BLUEMARK MAG EM-M (49X15)	0802738	1
BLUEMARK MAG EM-M (60X15)	0802739	1
BLUEMARK MAG EM-M (60X30)	0802740	1
BLUEMARK MAG EM-M (85,6X54)	0802741	1
BLUEMARK MAG EM-M (100X60)	0802742	1

## Device marking

### Aluminum device marking for screwing or riveting

Can be marked using:



UV LED technology



Aluminum, material thickness: 0.8 mm

- The aluminum EMSP-AL... product range includes markers that can be quickly and easily fitted with screws or rivets and is characterized by:
- High-quality appearance
- The markers can be marked quickly, easily, and cost-effectively with the BLUEMARK CLED
- By using modern UV LED printing technology, a highly resistant and optimum printing quality can be achieved, which is resistant to solvents and suitable for use even under harsh industrial conditions
- Marking service: Phoenix Contact can custom-mark EMSP ... markers according to your requirements
- In conjunction with magazines, optimum printing accuracy is guaranteed

#### Notes:

For corresponding rivets for fixing the EMSP-AL ..., see page 368.

For drilling diagrams, visit [phoenixcontact.net/products](http://phoenixcontact.net/products)

#### General data

Can be marked using  
Material  
Wipe resistance

Description	Color
<b>Marking label, aluminum, 0.8 mm thick, with mounting holes</b> 3.2 mm in diameter	
Lettering field size: 39 x 15 mm	aluminum
Lettering field size: 50 x 15 mm	aluminum
Lettering field size: 50 x 30 mm	aluminum
Lettering field size: 75.6 x 54 mm	aluminum
Lettering field size: 90 x 60 mm	aluminum

#### Magazine, for BLUEMARK CLED

for accommodating EMP-AL (49X15), EMLP-AL (49X15), EMSP-AL (39X15)  
for accommodating EMP-AL (60X15), EMLP-AL (60X15), EMSP-AL (50X15)  
for accommodating EMP-AL (60X30), EMLP-AL (60X30), and ...-EX versions, EMSP-AL (50X30)  
for accommodating EMP-AL (85,6X54), EMLP-AL (85,6X54), and ...-EX versions, EMSP-AL (75,6X54)  
for accommodating EMLP-AL (100X60) and ...-EX versions, EMSP-AL (90X60)

#### Technical data

BLUEMARK CLED  
Aluminum  
DIN EN 61010-1 (VDE 0411-1)

#### Ordering data

Type	Order No.	Pcs. / Pkt.
<b>EMSP-AL (39X15)</b>	<b>0830510</b>	45
<b>EMSP-AL (50X15)</b>	<b>0830773</b>	45
<b>EMSP-AL (50X30)</b>	<b>0830502</b>	45
<b>EMSP-AL (75,6X54)</b>	<b>0830503</b>	15
<b>EMSP-AL (90X60)</b>	<b>0830504</b>	15

#### Accessories

Accessories	Order No.	Pcs. / Pkt.
<b>BLUEMARK MAG EM-M (49X15)</b>	<b>0802738</b>	1
<b>BLUEMARK MAG EM-M (60X15)</b>	<b>0802739</b>	1
<b>BLUEMARK MAG EM-M (60X30)</b>	<b>0802740</b>	1
<b>BLUEMARK MAG EM-M (85,6X54)</b>	<b>0802741</b>	1
<b>BLUEMARK MAG EM-M (100X60)</b>	<b>0802742</b>	1

**Aluminum device marking for snapping into marker carriers**

Can be marked using:



UV LED technology



Aluminum, material thickness: 0.8 mm

- The aluminum EMP-AL ... product range includes markers that can be quickly and easily fitted into existing CARRIER-EMP ... label frames and is characterized by:
- The markers can be marked quickly, easily, and cost-effectively with the BLUEMARK CLED
- By using modern UV LED printing technology, a highly resistant and optimum printing quality can be achieved, which is resistant to solvents and suitable for use even under harsh industrial conditions
- In conjunction with magazines, optimum printing accuracy is guaranteed
- Marking service: Phoenix Contact can custom-mark all EMLP ... markers according to your requirements

General data	
Can be marked using	
Material	
Wipe resistance	

Description	Color
<b>Marking label, aluminum, 0.8 mm thick, can be snapped into marker carriers</b>	
Lettering field size: 27 x 15 mm	aluminum
Lettering field size: 27 x 18 mm	aluminum
Lettering field size: 49 x 15 mm	aluminum
Lettering field size: 60 x 15 mm	aluminum
Lettering field size: 60 x 30 mm	aluminum
Lettering field size: 85.6 x 54 mm	aluminum

Magazine, for BLUEMARK CLED	
for accommodating EMP-AL (27X15), EMLP-AL (27X15)	
for accommodating EMP-AL (27X18), EMLP-AL (27X18)	
for accommodating EMP-AL (49X15), EMLP-AL (49X15), EMSP-AL (39X15)	
for accommodating EMP-AL (60X15), EMLP-AL (60X15), EMSP-AL (50X15)	
for accommodating EMP-AL (60X30), EMLP-AL (60X30), and ...-EX versions, EMSP-AL (50X30)	
for accommodating EMP-AL (85,6X54), EMLP-AL (85,6X54), and ...-EX versions, EMSP-AL (75,6X54)	

**Technical data**

BLUEMARK CLED
Aluminum
DIN EN 61010-1 (VDE 0411-1)

**Ordering data**

Type	Order No.	Pcs. / Pkt.
EMP-AL (27X15)	0830776	90
EMP-AL (27X18)	0830777	90
EMP-AL (49X15)	0830778	45
EMP-AL (60X15)	0830779	45
EMP-AL (60X30)	0830796	45
EMP-AL (85,6X54)	0830797	15

**Accessories**

BLUEMARK MAG EM-M (27X15)	0802736	1
BLUEMARK MAG EM-M (27X18)	0802737	1
BLUEMARK MAG EM-M (49X15)	0802738	1
BLUEMARK MAG EM-M (60X15)	0802739	1
BLUEMARK MAG EM-M (60X30)	0802740	1
BLUEMARK MAG EM-M (85,6X54)	0802741	1



## Device marking

### UniCard stick-on device marking

Can be marked using:



UV LED technology



Plotter

PRINTED  
FOR YOU



Unmarked or marked according to customer specifications

- The UC-EMLP ... UniCard marking range includes self-adhesive device markers with good adhesive properties
- The markers, which are supplied in uniform sheets, can be marked quickly and easily using the BLUEMARK
- The format automatically ensures printing with a high level of positional accuracy
- The large temperature range for application means that the labels can be used in control cabinets as well as in the field
- The sheets provide space to include function texts

#### General data

Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

#### Technical data

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Description	Color
<b>UniCard, with self-adhesive plastic labels</b>	
10-part, lettering field size: 11 x 9 mm	white yellow silver
10-section, lettering field size: 15 x 5 mm	white yellow silver
10-section, lettering field size: 17 x 9 mm	white yellow silver
10-section, lettering field size: 17 x 15 mm	white yellow silver
10-section, lettering field size: 20 x 8 mm	white yellow silver
6-section, lettering field size: 22 x 22 mm	white yellow silver
8-section, lettering field size: 27 x 12.5 mm	white yellow silver blue green
8-section, lettering field size: 27 x 15 mm	white yellow silver
8-section, lettering field size: 27 x 18 mm	white yellow silver
6-section, lettering field size: 27 x 27 mm	white yellow silver
4-section, lettering field size: 49 x 15 mm	white silver yellow
4-section, lettering field size: 60 x 15 mm	white yellow silver
3-section, lettering field size: 60 x 30 mm	white yellow silver

#### Ordering data

Type	Order No.	Pcs. / Pkt.
UC-EMLP (11X9)	0819291	10
UC-EMLP (11X9) YE	0822602	10
UC-EMLP (11X9) SR	0828094	10
UC-EMLP (15X5)	0819301	10
UC-EMLP (15X5) YE	0822615	10
UC-EMLP (15X5) SR	0828095	10
UC-EMLP (17X9)	0819314	10
UC-EMLP (17X9) YE	0822628	10
UC-EMLP (17X9) SR	0828096	10
UC-EMLP (17X15)	0827885	10
UC-EMLP (17X15) YE	0827886	10
UC-EMLP (17X15) SR	0827887	10
UC-EMLP (20X8)	0819327	10
UC-EMLP (20X8) YE	0822631	10
UC-EMLP (20X8) SR	0828097	10
UC-EMLP (22X22)	0825463	10
UC-EMLP (22X22) YE	0825464	10
UC-EMLP (22X22) SR	0825465	10
UC-EMLP (27X12,5)	0825469	10
UC-EMLP (27X12,5) YE	0825470	10
UC-EMLP (27X12,5) SR	0825471	10
UC-EMLP (27X12,5) BU	0830853	10
UC-EMLP (27X12,5) GN	0830854	10
UC-EMLP (27X15)	0827894	10
UC-EMLP (27X15) YE	0827895	10
UC-EMLP (27X15) SR	0827896	10
UC-EMLP (27X18)	0825475	10
UC-EMLP (27X18) YE	0825476	10
UC-EMLP (27X18) SR	0825477	10
UC-EMLP (27X27)	0825481	10
UC-EMLP (27X27) YE	0825482	10
UC-EMLP (27X27) SR	0825483	10
UC-EMLP (49X15)	0827903	10
UC-EMLP (49X15) SR	0827905	10
UC-EMLP (49X15) YE	0827904	10
UC-EMLP (60X15)	0819330	10
UC-EMLP (60X15) YE	0822644	10
UC-EMLP (60X15) SR	0828088	10
UC-EMLP (60X30)	0819343	10
UC-EMLP (60X30) YE	0822657	10
UC-EMLP (60X30) SR	0828091	10



#### Magazine, for CMS-P1-PLOTTER

#### Accessories

P1 UC-MAG 6	5146121	1
-------------	---------	---



**Stick-on UniCard device marking for applications in process engineering**

Can be marked using:



UV LED technology



Unmarked or marked according to customer specifications



- The UC-EMLP...-EX UniCard marking range includes self-adhesive device markers with good adhesive properties
- The marking requirements in terms of legibility, adhesion, and wipe resistance in potentially explosive areas (ATEX), according to IEC/EN 60079-0, can also be ensured following storage in typical gas atmospheres. Phoenix Contact developed these sheets especially for process engineering which is where these requirements typically arise. These sheets meet the requirements for wipe resistance according to DIN EN 61010-1 against aggressive media such as acetone, ethanol, and MEK
- Thanks to the special adhesive, the marker meets the demanding requirements of process engineering
- The markers can be marked quickly, easily, and inexpensively with the BLUEMARK CLED and LED
- By using modern UV LED printing technology, a highly resistant and optimum printing quality can be achieved, which is resistant to solvents and suitable for use even under harsh industrial conditions
- Marking service: Phoenix Contact can custom-mark all markers according to your requirements

**General data**

Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

**Technical data**

BLUEMARK CLED • BLUEMARK LED
PA
V2
-40 ... 90
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Description	Color
<b>UniCard</b> , with self-adhesive plastic labels	
6-section, lettering field size: 22 x 22 mm	white
8-section, lettering field size: 27 x 18 mm	white
6-section, lettering field size: 27 x 27 mm	white
4-section, lettering field size: 49 x 15 mm	white
3-section, lettering field size: 60 x 30 mm	white

**Ordering data**

Type	Order No.	Pcs. / Pkt.
<b>UC-EMLP (22X22)-EX</b>	<b>0803224</b>	10
<b>UC-EMLP (27X18)-EX</b>	<b>0803225</b>	10
<b>UC-EMLP (27X27)-EX</b>	<b>0803226</b>	10
<b>UC-EMLP (49X15)-EX</b>	<b>0803227</b>	10
<b>UC-EMLP (60X30)-EX</b>	<b>0803228</b>	10

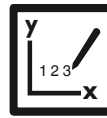
## Device marking

### UniCard device marking for screwing or riveting

Can be marked using:



UV LED technology



Plotter

PRINTED  
FOR YOU



Unmarked or marked according to customer specifications

- The UC-EMSP ... UniCard marking range includes markers that can be attached using screws or rivets
- The markers, which are supplied in uniform sheets, can be marked quickly and easily using the BLUEMARK
- The format automatically ensures printing with a high level of positional accuracy
- The large temperature range for application means that the labels can be used in control cabinets as well as in the field
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

#### General data

Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

#### Technical data

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Description	Color
<b>UniCard</b> , plastic labels with mounting holes 3.2 mm in diameter	
4-section, lettering field size: 50 x 15 mm	white
	yellow
	silver
	blue
	red
3-section, lettering field size: 50 x 30 mm	white
	yellow
	silver

#### Ordering data

Type	Order No.	Pcs. / Pkt.
UC-EMSP (50X15)	0828706	10
UC-EMSP (50X15) YE	0828707	10
UC-EMSP (50X15) SR	0828708	10
UC-EMSP (50X15) BU	0803134	10
UC-EMSP (50X15) RD	0803135	10
UC-EMSP (50X30)	0828709	10
UC-EMSP (50X30) YE	0828710	10
UC-EMSP (50X30) SR	0828711	10

#### Accessories

#### Magazine, for CMS-P1-PLOTTER

P1 UC-MAG 6	5146121	1
-------------	---------	---

#### Notes:

Corresponding rivet for fixing the UC-EMSP ..., see page 368.

For drilling diagrams, visit [phoenixcontact.net/products](http://phoenixcontact.net/products).

**UniCard device marking that can be snapped into marker carriers**

Can be marked using:



UV LED technology



Plotter



Unmarked or marked according to customer specifications

- The UC-EMP ... UniCard marking range includes markers that can be fitted into existing CARRIER-EMP ... label frames
- The markers, which are supplied in uniform sheets, can be marked quickly and easily using the BLUEMARK
- The format automatically ensures printing with a high level of positional accuracy
- The large temperature range for application means that the labels can be used in control cabinets as well as in the field
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

**Notes:**  
Matching label frames, see page 286.

General data	
Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Description	Color
<b>UniCard</b> , 1.2 mm thick	
8-section, lettering field size: 17 x 15 mm	white yellow silver
8-section, lettering field size: 27 x 15 mm	white yellow silver
4-section, lettering field size: 49 x 15 mm	white yellow silver
4-section, lettering field size: 60 x 15 mm	white yellow silver
3-section, lettering field size: 60 x 30 mm	white yellow silver

**Magazine**, for CMS-P1-PLOTTER

Technical data	
BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER	
PA	
V2	
-40 ... 120	
DIN EN 61010-1 (VDE 0411-1)	
Free from silicone and halogen	

Ordering data			
Type	Order No.	Pcs. / Pkt.	
UC-EMP (17X15)	0825421	10	
UC-EMP (17X15) YE	0825422	10	
UC-EMP (17X15) SR	0825423	10	
UC-EMP (27X15)	0825439	10	
UC-EMP (27X15) YE	0825440	10	
UC-EMP (27X15) SR	0825441	10	
UC-EMP (49X15)	0825457	10	
UC-EMP (49X15) YE	0825458	10	
UC-EMP (49X15) SR	0825459	10	
UC-EMP (60X15)	0822259	10	
UC-EMP (60X15) YE	0825330	10	
UC-EMP (60X15) SR	0827647	10	
UC-EMP (60X30)	0822275	10	
UC-EMP (60X30) YE	0825331	10	
UC-EMP (60X30) SR	0827648	10	

Accessories		
P1 UC-MAG 6	5146121	1

## Device marking

UniCard device marking that can be snapped into marker carriers

Can be marked using:



UV LED technology



Plotter



Unmarked or marked according to customer specifications

- The UC-EMP ... UniCard marking range includes markers for all applications
- The markers, which are supplied in uniform sheets, can be marked quickly and easily using the BLUEMARK
- The format automatically ensures printing with a high level of positional accuracy
- The UC-EMP ... device markers are ideal for fitting into existing CARRIER-EMP ... label frames
- The large temperature range for application means that the labels can be used in control cabinets as well as in the field
- The sheets provide space to include function texts

**Notes:**  
Matching label frames, see page 286.

General data	
Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data	
BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER	
PA	
V2	
-40 ... 120	
DIN EN 61010-1 (VDE 0411-1)	
Free from silicone and halogen	

Description	Color
<b>UniCard</b> , 1.2 mm thick	
10-section, lettering field size: 27 x 8 mm	white yellow silver
8-section, lettering field size: 27 x 12.5 mm	white yellow silver
8-section, lettering field size: 27 x 15 mm	white yellow silver
8-section, lettering field size: 27 x 18 mm	white yellow silver
6-section, lettering field size: 27 x 27 mm	white yellow silver

Ordering data		
Type	Order No.	Pcs. / Pkt.
UC-EMP (27X8)	0825427	10
UC-EMP (27X8) YE	0825428	10
UC-EMP (27X8) SR	0825429	10
UC-EMP (27X12,5)	0825433	10
UC-EMP (27X12,5) YE	0825434	10
UC-EMP (27X12,5) SR	0825435	10
UC-EMP (27X15)	0825439	10
UC-EMP (27X15) YE	0825440	10
UC-EMP (27X15) SR	0825441	10
UC-EMP (27X18)	0825445	10
UC-EMP (27X18) YE	0825446	10
UC-EMP (27X18) SR	0825447	10
UC-EMP (27X27)	0825451	10
UC-EMP (27X27) YE	0825452	10
UC-EMP (27X27) SR	0825453	10

Magazine, for CMS-P1-PLOTTER	
P1 UC-MAG 6	5146121

Accessories		
Type	Order No.	Pcs. / Pkt.
P1 UC-MAG 6	5146121	1

**UniCard snap-in device marking for devices from various manufacturers**

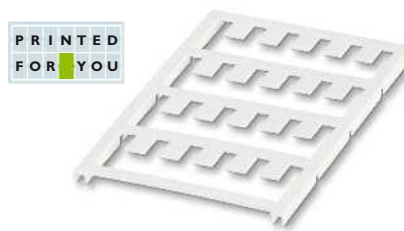
Can be marked using:



UV LED technology



Plotter



Unmarked or marked according to customer specifications

- The UC-EM ... UniCard marking range includes markers for devices and switching devices from a wide variety of manufacturers
- An overview of the devices that support marking plus their manufacturers can be found starting on page 292
- The markers, which are supplied in uniform sheets, can be marked quickly and easily using the BLUEMARK
- The format automatically ensures printing with a high level of positional accuracy
- The large temperature range for application means that the labels can be used in control cabinets as well as in the field
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

General data	
Can be marked using	BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER
Number of individual labels	20
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 120 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Free from silicone and halogen

Description	Color
<b>UniCard</b> , for marking devices from the following manufacturers: Siemens	
Lettering field size: 10 x 7 mm	white
Lettering field size: 10 x 7 mm	turquoise
<b>UniCard</b> , for marking devices from the following manufacturers: Bosch/Rexroth, ifm-electronic, Lumberg, Pepperl & Fuchs, Siemens	
Lettering field size: 10 x 8 mm	white
Lettering field size: 10 x 8 mm	turquoise
<b>UniCard</b> , for marking devices from the following manufacturers: ABB, Lumberg	
Lettering field size: 17.5 x 7.5 mm	white
<b>UniCard</b> , for marking devices from the following manufacturers: ABB, ifm-electronic, Moeller, Murr Elektronik	
Lettering field size: 17.5 x 8 mm	white

<b>Magazine</b> , for CMS-P1-PLOTTER
--------------------------------------

**Technical data**

Can be marked using	BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER
Number of individual labels	20
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 120 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Free from silicone and halogen

**Ordering data**

Type	Order No.	Pcs. / Pkt.
<b>UC-EM (10X7)</b>	<b>0825487</b>	10
<b>UC-EM (10X7) TQ</b>	<b>0825488</b>	10
<b>UC-EM (10X8)</b>	<b>0825491</b>	10
<b>UC-EM (10X8) TQ</b>	<b>0825492</b>	10
<b>UC-EM (17,5X7,5)</b>	<b>0825495</b>	10
<b>UC-EM (17,5X8)</b>	<b>0823766</b>	10

**Accessories**

<b>P1 UC-MAG 6</b>	<b>5146121</b>	1
--------------------	----------------	---

## Device marking

### UniCard snap-in device marking for devices from various manufacturers

Can be marked using:



UV LED technology



Plotter



Unmarked or marked according to customer specifications

- The UC-EM ... UniCard marking range includes markers for devices and switching devices from a wide variety of manufacturers
- An overview of the devices that support marking plus their manufacturers can be found starting on page 292
- The markers, which are supplied in uniform sheets, can be marked quickly and easily using the BLUEMARK
- The format automatically ensures printing with a high level of positional accuracy
- The large temperature range for application means that the labels can be used in control cabinets as well as in the field
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

#### General data

Can be marked using	
Number of individual labels	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

#### Technical data

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER
20
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Description	Color
<b>UniCard</b> , for marking devices from the following manufacturers: Murr Elektronik, Phoenix Contact, Weidmüller	
Lettering field size: 17.5 x 9 mm	white yellow
<b>UniCard</b> , for marking devices from the following manufacturers: Schneider Electric, ifm-electronic	
Lettering field size: 18 x 8 mm	white
<b>UniCard</b> , for marking devices from the following manufacturers: Lumberg, Weidmüller	
Lettering field size: 19 x 9 mm	white yellow
<b>UniCard</b> , for marking devices from the following manufacturers: Harting, ifm-electronic, Phoenix Contact, Siemens	
Lettering field size: 20 x 7 mm	white turquoise

#### Ordering data

Type	Order No.	Pcs. / Pkt.
<b>UC-EM (17,5X9)</b>	<b>0827490</b>	10
<b>UC-EM (17,5X9) YE</b>	<b>0827494</b>	10
<b>UC-EM (18X8)</b>	<b>0825497</b>	10
<b>UC-EM (19X9)</b>	<b>0827492</b>	10
<b>UC-EM (19X9) YE</b>	<b>0827496</b>	10
<b>UC-EM (20X7)</b>	<b>0825499</b>	10
<b>UC-EM (20X7) TQ</b>	<b>0825500</b>	10

#### Accessories

<b>Magazine</b> , for CMS-P1-PLOTTER		
<b>P1 UC-MAG 6</b>	<b>5146121</b>	1

UniCard snap-in device marking for devices from various manufacturers



Unmarked or marked according to customer specifications

Technical data

General data		Technical data	
Can be marked using		BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER	
Number of individual labels		20	
Material		PA	
Inflammability class according to UL 94		V2	
Temperature range	[°C]	-40 ... 120	
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)	
Components		Free from silicone and halogen	

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
<b>UniCard</b> , for marking devices from the following manufacturers: ABB, Conta-Clip, Escha, Festo, ifm-electronik, Harting, Moeller, Phoenix Contact, Siemens				
Lettering field size: 20 x 9 mm	white	UC-EM (20X9)	0825503	10
Lettering field size: 20 x 9 mm	yellow	UC-EM (20X9) YE	0827637	10
Lettering field size: 20 x 9 mm	turquoise	UC-EM (20X9) TQ	0825504	10
<b>UniCard</b> , for marking devices for marking devices from the following manufacturers: Schneider Electric, ifm-electronic, Murr Elektronik				
Lettering field size: 21 x 8 mm	white	UC-EM (21X8)	0825507	10

Accessories

Magazine, for CMS-P1-PLOTTER	Type	Order No.	Pcs. / Pkt.
	P1 UC-MAG 5	5146118	1

## Device marking

### UniCard snap-in device marking for Axioline E series

Can be marked using:



Thermal transfer for sheets and cards



UV LED technology



Direct laser marking



Unmarked or marked according to customer specifications

- The markers, which are supplied in uniform sheets, can be marked quickly and easily using the BLUEMARK CLED, TOPMARK LASER, and the THERMOMARK CARD
- The format automatically ensures printing with a high level of positional accuracy
- The large temperature range for application means that the labels can be used in control cabinets as well as in the field
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

#### General data

Can be marked using

Material

Inflammability class according to UL 94

Temperature range

Wipe resistance

Components

[°C]

#### Technical data

THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED • TOPMARK LASER

PC

V0

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

free from silicone, halogen, and cadmium

#### Ordering data

Description	Color
UniCard, for marking Phoenix Contact devices, Axioline	
Lettering field size: 7 x 10 mm, 30 individual labels	white

Type	Order No.	Pcs. / Pkt.
UCT-EM (7X10)	0830765	10

Magazine, for THERMOMARK CARD ..., for accommodating UCT-WMT ... sheets, UCT-EM (17X10)

#### Accessories

THERMOMARK CARD-UCT-MAG7	0801734	1
--------------------------	---------	---



UniCard snap-in device marking for devices from various manufacturers



Can be marked using:



Thermal transfer for sheets and cards



UV LED technology



Direct laser marking

PRINTED FOR YOU



Unmarked or marked according to customer specifications

The UCT-EM ... UniCard marking range includes markers for devices and switchgear from a wide range of manufacturers.

- The markers, which are supplied in uniform sheets, can be marked quickly and easily using the BLUEMARK CLED, TOPMARK LASER, and the THERMOMARK CARD
- The format automatically ensures printing with a high level of positional accuracy
- The large temperature range for application means that the labels can be used in control cabinets as well as in the field
- The sheets provide space to include function texts
- An overview of the devices that support marking plus their manufacturers can be found starting on page 292
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

General data

Can be marked using

Material  
 Inflammability class according to UL 94  
 Temperature range [°C]  
 Wipe resistance  
 Components

Technical data

THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED • TOPMARK LASER  
 PC  
 V0  
 -40 ... 120  
 DIN EN 61010-1 (VDE 0411-1)  
 Free from silicone and halogen

Description Color

UniCard, for marking devices from the following manufacturers: CONTA-CLIP, Murr Elektronik, 66 individual markers

Lettering field size: 5 x 10 mm white

UniCard, for marking devices from the following manufacturers: CONTA-CLIP, Festo, Finder, 54 individual markers

Lettering field size: 6 x 10 mm white

UniCard, for marking devices from the following manufacturers: Beckhoff, Escha, Lumberg, Murr Elektronik, Pepperl & Fuchs, Turck, 54 individual markers

Lettering field size: 10 x 5 mm white

UniCard, for marking devices from the following manufacturers: Siemens, 54 individual markers

Lettering field size: 10 x 7 mm white

Lettering field size: 10 x 7 mm turquoise

UniCard, for marking devices from the following manufacturers: Bosch/Rexroth, ifm-electronic, Lumberg, Pepperl & Fuchs, Siemens, 54 individual markers

Lettering field size: 10 x 8 mm white

Lettering field size: 10 x 8 mm turquoise

Ordering data

Type	Order No.	Pcs. / Pkt.
UCT-EM (5X10)	0801497	10
UCT-EM (6X10)	0801493	10
UCT-EM (10X5)	0801470	10
UCT-EM (10X7)	0801498	10
UCT-EM (10X7) TQ	0801499	10
UCT-EM (10X8)	0801485	10
UCT-EM (10X8) TQ	0801486	10

Magazine, for THERMOMARK CARD ...

for accommodating: UCT-TM ..., UCT1-TM ..., UCT5-TM ..., UCT-EM (5X10), UCT-EM (6X10)

Magazine, for THERMOMARK CARD ... for accommodating UCT-EM (10X5)

Magazine, for THERMOMARK CARD ... for accommodating UCT-EM (10 x 7), UCT-WMTB (29 x 8)

Magazine, for THERMOMARK CARD ... for accommodating UCT-EM (10X8), UCT-EM (12X7)

Accessories

THERMOMARK CARD-UCT-MAG1	5146480	1
THERMOMARK CARD-UCT-MAG13	0830400	1
THERMOMARK CARD-UCT-MAG20	0830751	1
THERMOMARK CARD-UCT-MAG12	0830399	1

## Device marking

### UniCard snap-in device marking for devices from various manufacturers



The UCT-EM ... UniCard marking range includes markers for devices and switchgear from a wide range of manufacturers.

- The markers, which are supplied in uniform sheets, can be marked quickly and easily using the BLUEMARK CLED, TOPMARK LASER, and the THERMOMARK CARD
- The format automatically ensures printing with a high level of positional accuracy
- The large temperature range for application means that the labels can be used in control cabinets as well as in the field
- The sheets provide space to include function texts
- An overview of the devices that support marking plus their manufacturers can be found starting on page 292
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

Can be marked using:



Thermal transfer for sheets and cards



UV LED technology



Direct laser marking

PRINTED  
FOR YOU



Unmarked or marked according to customer specifications

#### General data

Can be marked using	
Number of individual labels	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

#### Technical data

THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED • TOPMARK LASER
30
PC
V0
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Description	Color
<b>UniCard</b> , for marking devices from the following manufacturers: Bernecke + Rainer Lettering field size: 12 x 3.3 mm	white
<b>UniCard</b> , for marking devices from the following manufacturers: Bernecke + Rainer Lettering field size: 12 x 6 mm	white
<b>UniCard</b> , for marking devices from the following manufacturers: Beckhoff, Wago Lettering field size: 12 x 7 mm	white
<b>UniCard</b> , for marking devices from the following manufacturers: Siemens Lettering field size: 15 x 10 mm	white

#### Ordering data

Type	Order No.	Pcs. / Pkt.
UCT-EM (12X3,3)	0801502	10
UCT-EM (12X6)	0801503	10
UCT-EM (12X7)	0801501	10
UCT-EM (15X10)	0801504	10

<b>Magazine</b> , for THERMOMARK CARD ... for accommodating UCT-EM (12X3.3), UCT-EM (12X6)
<b>Magazine</b> , for THERMOMARK CARD ... for accommodating UCT-EM (12X3.3), UCT-EM (12X6)
<b>Magazine</b> , for THERMOMARK CARD ... for accommodating UCT-EM (10X8), UCT-EM (12X7)
<b>Magazine</b> , for THERMOMARK CARD ... for accommodating UCT-EM (17,5X8), UCT-EM (20X7), UCT-EM (15X10)

#### Accessories

THERMOMARK CARD-UCT-MAG9	0801736	1
THERMOMARK CARD-UCT-MAG9	0801736	1
THERMOMARK CARD-UCT-MAG12	0830399	1
THERMOMARK CARD-UCT-MAG8	0801735	1

UniCard snap-in device marking for devices from various manufacturers

PRINTED  
FOR YOU



Unmarked or marked according to customer specifications

Technical data

General data		Technical data	
Can be marked using		THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED • TOPMARK LASER	
Number of individual labels		24	
Material		PC	
Inflammability class according to UL 94		V0	
Temperature range	[°C]	-40 ... 120	
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)	
Components		Free from silicone and halogen	

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
<b>UniCard</b> , for marking devices from the following manufacturers: ABB, Festo, Finder, Murr Elektronik, Wago				
Lettering field size: 17 x 9 mm	white	UCT-EM (17X9)	0801475	10
Lettering field size: 17 x 9 mm	yellow	UCT-EM (17X9) YE	0801476	10
<b>UniCard</b> , for marking devices from the following manufacturers: Allen Bradley, Festo				
Lettering field size: 17 x 10 mm	white	UCT-EM (17X10)	0801483	10
Lettering field size: 17 x 10 mm	yellow	UCT-EM (17X10) YE	0801484	10
<b>UniCard</b> , for marking devices from the following manufacturers: ABB, Lumberg				
Lettering field size: 17.5 x 7.5 mm	white	UCT-EM (17,5X7,5)	0801482	10
<b>UniCard</b> , for marking devices from the following manufacturers: ABB, Schneider Electric, ifm-electronic, Murr Elektronik				
Lettering field size: 17 x 8 mm	white	UCT-EM (17X8)	0801842	10

Accessories

Magazine, for THERMOMARK CARD ...	Type	Order No.	Pcs. / Pkt.
for accommodating UCT-EM (17 x 9)	THERMOMARK CARD-UCT-MAG16	0830403	1
Magazine, for THERMOMARK CARD ... for accommodating UCT-EM (17X10) and (20X8)	THERMOMARK CARD-UCT-MAG11	0801738	1
Magazine, for THERMOMARK CARD ... for accommodating UCT-EM (17,5X7,5)	THERMOMARK CARD-UCT-MAG18	0830405	1
Magazine, for THERMOMARK CARD ... for accommodating UCT-EM (21X8) and UCT EM (17X8)	THERMOMARK CARD-UCT-MAG14	0830401	1

## Device marking

### UniCard snap-in device marking for devices from various manufacturers



The UCT-EM ... UniCard marking range includes markers for devices and switchgear from a wide range of manufacturers.

- The markers, which are supplied in uniform sheets, can be marked quickly and easily using the BLUEMARK CLED, TOPMARK LASER, and the THERMOMARK CARD
- The format automatically ensures printing with a high level of positional accuracy
- The large temperature range for application means that the labels can be used in control cabinets as well as in the field
- The sheets provide space to include function texts
- An overview of the devices that support marking plus their manufacturers can be found starting on page 292
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

Can be marked using:



Thermal transfer for sheets and cards



UV LED technology



Direct laser marking

PRINTED  
FOR YOU



Unmarked or marked according to customer specifications

#### General data

Can be marked using	
Number of individual labels	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

#### Technical data

THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED • TOPMARK LASER
24
PC
V0
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Description	Color
<b>UniCard</b> , for marking devices from the following manufacturers: ABB, ifm-electronic, Moeller, Murr Elektronik	
Lettering field size: 17.5 x 8 mm	white
<b>UniCard</b> , for marking devices from the following manufacturers: Murr Elektronik, Phoenix Contact, Weidmüller	
Lettering field size: 17.5 x 9 mm	white
Lettering field size: 17.5 x 9 mm	yellow
<b>UniCard</b> , for marking devices from the following manufacturers: ABB, Schneider Electric, ifm-electronic, Murr Elektronik	
Lettering field size: 18 x 8 mm	white
<b>UniCard</b> , for marking devices from the following manufacturers: ifm-electronic, Phoenix Contact, Siemens	
Lettering field size: 20 x 7 mm	white
Lettering field size: 20 x 7 mm	turquoise

#### Ordering data

Type	Order No.	Pcs. / Pkt.
<b>UCT-EM (17,5X8)</b>	<b>0801496</b>	10
<b>UCT-EM (17,5X9)</b>	<b>0801491</b>	10
<b>UCT-EM (17,5X9) YE</b>	<b>0801492</b>	10
<b>UCT-EM (18X8)</b>	<b>0801488</b>	10
<b>UCT-EM (20X7)</b>	<b>0801494</b>	10
<b>UCT-EM (20X7) TQ</b>	<b>0801495</b>	10

<b>Magazine</b> , for THERMOMARK CARD ... for accommodating UCT-EM (17,5X8), UCT-EM (20X7), UCT-EM (15X10)
<b>Magazine</b> , for THERMOMARK CARD ... for accommodating UCT-EM (17,5X9)
<b>Magazine</b> , for THERMOMARK CARD ... for accommodating UCT-EM (18 x 8)

#### Accessories

Accessories	Order No.	Pcs. / Pkt.
<b>THERMOMARK CARD-UCT-MAG8</b>	<b>0801735</b>	1
<b>THERMOMARK CARD-UCT-MAG22</b>	<b>0830771</b>	1
<b>THERMOMARK CARD-UCT-MAG17</b>	<b>0830404</b>	1

UniCard snap-in device marking for devices from various manufacturers

PRINTED  
FOR YOU



Unmarked or marked according to customer specifications

Technical data

General data	Technical data
Can be marked using	THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED • TOPMARK LASER
Number of individual labels	24
Material	PC
Inflammability class according to UL 94	V0
Temperature range	[-40 ... 120 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
<b>UniCard</b> , for marking devices from the following manufacturers: Escha, Murr Elektronik, Turck				
Lettering field size: 20 x 8 mm	white	<b>UCT-EM (20X8)</b>	<b>0801477</b>	10
<b>UniCard</b> , for marking devices from the following manufacturers: ABB, Conta-Clip, Escha, Festo, ifm-electronic, Lumberg, Moeller, Murr Elektronik, Pepperl & Fuchs, Phoenix Contact, Siemens, Turck, Weidmüller				
Lettering field size: 20 x 9 mm	white	<b>UCT-EM (20X9)</b>	<b>0801471</b>	10
Lettering field size: 20 x 9 mm	turquoise	<b>UCT-EM (20X9) TQ</b>	<b>0801473</b>	10
Lettering field size: 20 x 9 mm	yellow	<b>UCT-EM (20X9) YE</b>	<b>0801472</b>	10
<b>UniCard</b> , for marking devices from the following manufacturers: ABB, Schneider Electric, ifm-electronic, Murr Elektronik				
Lettering field size: 21 x 8 mm	white	<b>UCT-EM (21X8)</b>	<b>0801489</b>	10

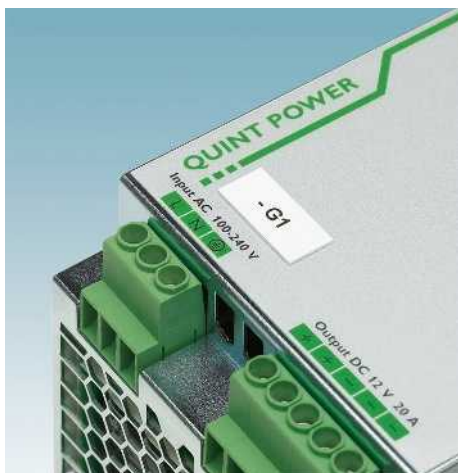
Accessories

<b>Magazine</b> , for THERMOMARK CARD ... for accommodating UCT-EM (17X10) and (20X8)	<b>THERMOMARK CARD-UCT-MAG11</b>	<b>0801738</b>	1
for accommodating UCT-EM (20 x 9)	<b>THERMOMARK CARD-UCT-MAG15</b>	<b>0830402</b>	1
<b>Magazine</b> , for THERMOMARK CARD ... for accommodating UCT-EM (21X8) and UCT EM (17X8)	<b>THERMOMARK CARD-UCT-MAG14</b>	<b>0830401</b>	1

## Device marking

### UniSheet stick-on device marking

Can be marked using:



Thermal transfer for sheets and cards



Unmarked or marked according to customer specifications

- The US-EMLP ... UniSheet marking range includes self-adhesive device markers with good adhesive properties in different sizes for:
- Device marking
- Module marking
- Switchgear marking
- The markers, which are supplied in uniform sheets, can be printed onto quickly, easily, and cost-effectively using the THERMOMARK CARD
- The perforated markers are easy to separate and can be easily fitted
- The sheets provide space to include function texts
- For more label sizes, visit [phoenixcontact.net/products](http://phoenixcontact.net/products)

### Marking of power circuit breakers, for example:

- 8.8 x 15 mm for ABB, Schneider Electric
- 17 x 15 mm for ABB, Hager, Legrand
- 35 x 15 mm for ABB, Legrand, Schneider Electric
- 52.5 x 15 mm for ABB, Legrand, Schneider Electric
- 70 x 15 mm for Legrand, Schneider Electric

#### General data

Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

#### Technical data

THERMOMARK CARD
PVC
V0
-30 ... 80
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Description	Color
<b>UniSheet</b> , with self-adhesive plastic labels, 0.5 mm thick	
88-section, lettering field size: 8.8 x 15 mm	white yellow red silver
135-section, lettering field size: 11 x 9 mm	white yellow silver
189-section, lettering field size: 15 x 5 mm	white yellow silver
108-section, lettering field size: 17 x 7 mm	white yellow silver
54-section, lettering field size: 17 x 15 mm	white yellow silver
75-section, lettering field size: 20 x 9 mm	white yellow silver
24-section, lettering field size: 22 x 22 mm	white yellow silver
51-section, lettering field size: 27 x 8 mm	white yellow silver
30-section, lettering field size: 27 x 12.5 mm	white  yellow silver
27-section, lettering field size: 27 x 15 mm	white yellow silver

#### Ordering data

Type	Order No.	Pcs. / Pkt.
US-EMLP (8,8X15)	0830303	10
US-EMLP (8,8X15) YE	0830316	10
US-EMLP (8,8X15) RD	0830318	10
US-EMLP (8,8X15) SR	0830317	10
US-EMLP (11X9)	0828789	10
US-EMLP (11X9) YE	0828871	10
US-EMLP (11X9) SR	0828872	10
US-EMLP (15X5)	0828790	10
US-EMLP (15X5) YE	0828873	10
US-EMLP (15X5) SR	0828874	10
US-EMLP (17X7)	0828792	10
US-EMLP (17X7) YE	0828877	10
US-EMLP (17X7) SR	0828878	10
US-EMLP (17,5X15)	0830839	10
US-EMLP (17X15) YE	0828879	10
US-EMLP (17X15) SR	0828880	10
US-EMLP (20X9)	0828795	10
US-EMLP (20X9) YE	0828883	10
US-EMLP (20X9) SR	0828884	10
US-EMLP (22X22)	0828796	10
US-EMLP (22X22) YE	0828885	10
US-EMLP (22X22) SR	0828886	10
US-EMLP (27X8)	0828797	10
US-EMLP (27X8) YE	0828889	10
US-EMLP (27X8) SR	0828890	10
US-EMLP (27X12,5)	0828798	10
US-EMLP (27X12,5) YE	0828891	10
US-EMLP (27X12,5) SR	0828892	10
US-EMLP (27X15)	0828799	10
US-EMLP (27X15) YE	0828893	10
US-EMLP (27X15) SR	0828894	10

**Magazine**, for THERMOMARK CARD..., for accommodating all US-materials

#### Accessories

THERMOMARK CARD-US-MAG1	5146451	1
-------------------------	---------	---

UniSheet stick-on device marking



Unmarked or marked according to customer specifications

Technical data

General data	
Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

THERMOMARK CARD
PVC
V0
-30 ... 80
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
<b>UniSheet</b> , with self-adhesive plastic labels, 0.5 mm thick				
21-section, lettering field size: 27 x 18 mm	white	US-EMLP (27X18)	0828800	10
	yellow	US-EMLP (27X18) YE	0828895	10
	silver	US-EMLP (27X18) SR	0828896	10
15-section, lettering field size: 27 x 27 mm	white	US-EMLP (27X27)	0828801	10
	yellow	US-EMLP (27X27) YE	0828897	10
	silver	US-EMLP (27X27) SR	0828898	10
45-section, lettering field size: 35 x 9 mm	white	US-EMLP (35X9)	0828802	10
	yellow	US-EMLP (35X9) YE	0828899	10
	silver	US-EMLP (35X9) SR	0829430	10
27-section, lettering field size: 35 x 15 mm	white	US-EMLP (35X15)	0830300	10
	yellow	US-EMLP (35X15) YE	0830319	10
	red	US-EMLP (35X15) RD	0830321	10
	silver	US-EMLP (35X15) SR	0830320	10
28-section, lettering field size: 40 x 10 mm	white	US-EMLP (40X10)	0830341	10
	yellow	US-EMLP (40X10) YE	0830342	10
	silver	US-EMLP (40X10) SR	0830328	10
18-section, lettering field size: 49 x 15 mm	white	US-EMLP (49X15)	0828803	10
	yellow	US-EMLP (49X15) YE	0828901	10
	silver	US-EMLP (49X15) SR	0828902	10
16-section, lettering field size: 52.5 x 15 mm	white	US-EMLP (52,5X15)	0830301	10
	yellow	US-EMLP (52,5X15) YE	0830322	10
	red	US-EMLP (52,5X15) RD	0830324	10
	silver	US-EMLP (52,5X15) SR	0830323	10
9-section, lettering field size: 60 x 15 mm	white	US-EMLP (60X15)	0828804	10
	yellow	US-EMLP (60X15) YE	0828903	10
	silver	US-EMLP (60X15) SR	0828904	10
4-section, lettering field size: 60 x 30 mm	white	US-EMLP (60X30)	0828805	10
	yellow	US-EMLP (60X30) YE	0828905	10
	silver	US-EMLP (60X30) SR	0828906	10
8-section, lettering field size: 70 x 15 mm	white	US-EMLP (70X15)	0830302	10
	yellow	US-EMLP (70X15) YE	0830325	10
	red	US-EMLP (70X15) RD	0830327	10
	silver	US-EMLP (70X15) SR	0830326	10
2-section, lettering field size: 85.6 x 54 mm	white	US-EMLP (85,6X54)	0828806	10
	yellow	US-EMLP (85,6X54) YE	0828907	10
	silver	US-EMLP (85,6X54) SR	0828908	10
	red	US-EMLP (85,6X54) RD	0830841	10
2-section, lettering field size: 100 x 60 mm	white	US-EMLP (100X60)	0828807	10
	yellow	US-EMLP (100X60) YE	0828909	10
	silver	US-EMLP (100X60) SR	0828910	10
1-section, lettering field size: 104 x 135 mm	white	US-EMLP (104X135)	0830304	10
	yellow	US-EMLP (104X135) YE	0830305	10
	silver	US-EMLP (104X135) SR	0830306	10

Accessories

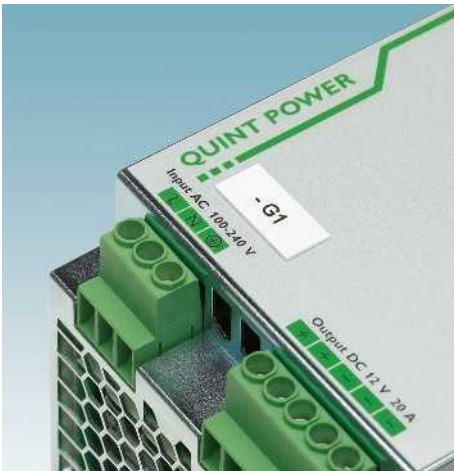
Magazine, for THERMOMARK CARD..., for accommodating all US-materials	
--	--

THERMOMARK CARD-US-MAG1	5146451	1
-------------------------	---------	---

## Device marking

### UniSheet device marking for sticking onto rough or textured surfaces

Can be marked using:



Thermal transfer for sheets and cards



Unmarked or marked according to customer specifications

- The US-EMLP-HA ... UniSheet marking range has excellent adhesive properties on rough, textured, and low-energy surfaces, thanks to the special adhesive
- The markers, which are supplied in uniform sheets, can be printed onto quickly, easily, and cost-effectively using the THERMOMARK CARD
- The perforated markers are easy to separate and can be easily fitted
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all US-EMLP-HA ... markers according to your requirements

#### General data

Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

#### Technical data

THERMOMARK CARD
PVC
V0
-30 ... 80
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Description	Color
<b>UniSheet</b> , with self-adhesive plastic labels, 0.5 mm thick	
108-section, lettering field size: 17 x 7 mm	white
70-section, lettering field size: 20 x 9 mm	white
4-section, lettering field size: 60 x 30 mm	white
4-section, lettering field size: 60 x 30 mm	silver
2-section, lettering field size: 85.6 x 54 mm	white
2-section, lettering field size: 85.6 x 54 mm	silver

#### Ordering data

Type	Order No.	Pcs. / Pkt.
US-EMLP-HA (17X7)	0830988	10
US-EMLP-HA (20X9)	0830989	10
US-EMLP-HA (60X30)	0830990	10
US-EMLP-HA (60X30) SR	0830991	10
US-EMLP-HA (85,6X54)	0830992	10
US-EMLP-HA (85,6X54) SR	0830993	10

Magazine, for THERMOMARK CARD..., for accommodating all US-materials

#### Accessories

Accessories	Order No.	Pcs. / Pkt.
THERMOMARK CARD-US-MAG1	5146451	1



UniSheet device marking that can be snapped into marker carriers

Can be marked using:



Thermal transfer for sheets and cards

PRINTED FOR YOU



Unmarked or marked according to customer specifications

- The US-EMP ... UniSheet marking range includes markers that can be fitted into existing CARRIER EMP ... label frames
- The markers, which are supplied in uniform sheets, can be printed onto quickly, easily, and cost-effectively using the THERMOMARK CARD
- The perforated markers are easy to separate and can be easily fitted
- The sheets provide space to include function texts

**Notes:**  
Matching label frames, see page 286.

General data

Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

THERMOMARK CARD
PVC
V0
-30 ... 80
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
<b>UniSheet</b> , just 0.5 mm thick				
54-section, lettering field size: 17 x 15 mm	white	US-EMP (17X15)	0828774	10
	yellow	US-EMP (17X15) YE	0828842	10
	silver	US-EMP (17X15) SR	0828843	10
70-section, lettering field size: 20 x 9 mm	white	US-EMP (20X9)	0829439	10
84-section, lettering field size: 25 x 6 mm	white	US-EMP (25X6)-1	0802754	10
84-section, lettering field size: 26 x 6 mm	white	US-EMP (25X6)	0829435	10
51-section, lettering field size: 27 x 8 mm	white	US-EMP (27X8)	0828775	10
	yellow	US-EMP (27X8) YE	0828844	10
	silver	US-EMP (27X8) SR	0828845	10
30-section, lettering field size: 27 x 12.5 mm	white	US-EMP (27X12,5)	0828776	10
	yellow	US-EMP (27X12,5) YE	0828846	10
	silver	US-EMP (27X12,5) SR	0828847	10
27-section, lettering field size: 27 x 15 mm	white	US-EMP (27X15)	0828777	10
	yellow	US-EMP (27X15) YE	0828848	10
	silver	US-EMP (27X15) SR	0828849	10
21-section, lettering field size: 27 x 18 mm	white	US-EMP (27X18)	0828778	10
	yellow	US-EMP (27X18) YE	0828850	10
	silver	US-EMP (27X18) SR	0828851	10
15-section, lettering field size: 27 x 27 mm	white	US-EMP (27X27)	0828779	10
	yellow	US-EMP (27X27) YE	0828852	10
	silver	US-EMP (27X27) SR	0828853	10
21-section, lettering field size: 27,9 x 17,4 mm		US-EMP (27,9X17,4)	0830980	10
	silver	US-EMP (27,9X17,4) SR	0803300	10
48-section, lettering field size: 29 x 8 mm	white	US-EMP (29X8)	0829436	10
	yellow	US-EMP (29X8) YE	0829440	10
42-section, lettering field size: 35 x 9 mm	white	US-EMP (35X9)	0830842	10
	yellow	US-EMP (35X9) YE	0830843	10
	silver	US-EMP (35X9) SR	0830844	10
16-section, lettering field size: 40 x 17 mm	white	US-EMP (40X17)	0829437	10
40-section, lettering field size: 44 x 7 mm	white	US-EMP (44X7)	0829438	10
18-section, lettering field size: 49 x 15 mm	white	US-EMP (49X15)	0828780	10
	yellow	US-EMP (49X15) YE	0828854	10
	silver	US-EMP (49X15) SR	0828855	10
9-section, lettering field size: 60 x 15 mm	white	US-EMP (60X15)	0828781	10
	yellow	US-EMP (60X15) YE	0828856	10
	silver	US-EMP (60X15) SR	0828857	10
4-section, lettering field size: 60 x 30 mm	white	US-EMP (60X30)	0828782	10
	yellow	US-EMP (60X30) YE	0828858	10
	silver	US-EMP (60X30) SR	0828859	10
2-section, lettering field size: 85,6 x 54 mm	white	US-EMP (85,6X54)	0828783	10
	yellow	US-EMP (85,6X54) YE	0828860	10
	silver	US-EMP (85,6X54) SR	0828861	10
9-section, lettering field size: 100 x 15 mm	white	US-EMP (100X15)	0829521	10
	yellow	US-EMP (100X15) YE	0829522	10
	silver	US-EMP (100X15) SR	0829523	10

Magazine, for THERMOMARK CARD..., for accommodating all US-materials

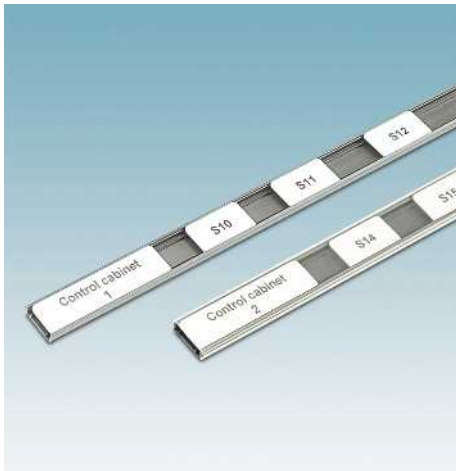
Accessories

THERMOMARK CARD-US-MAG1	5146451	1
-------------------------	---------	---

## Device marking

UniSheet device marking that can be snapped into marker carriers

Can be marked using:



Thermal transfer for sheets and cards

PRINTED  
FOR YOU



Unmarked or marked according to customer specifications

The US-EMP ... UniSheet device markers can be easily and individually snapped into the CARRIER(/L)-EMP (1000X15)... marker profile. They offer the following advantages and are suitable for the following:

- Device marking
- Module marking
- Switchgear marking
- The labels are available in different sizes corresponding to common device pitch measurements
- The markers, which are supplied in uniform sheets, can be printed onto quickly, easily, and cost-effectively using the THERMOMARK CARD
- The perforated markers are easy to separate and can be easily fitted
- The sheets provide space to include function texts

### Marking of power circuit breakers, for example:

- 8.8 x 15 mm for ABB, Schneider Electric
- 17 x 15 mm for ABB, Hager, Legrand
- 35 x 15 mm for ABB, Legrand, Schneider Electric
- 52.5 x 15 mm for ABB, Legrand, Schneider Electric
- 70 x 15 mm for Legrand, Schneider Electric

#### General data

Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

#### Technical data

THERMOMARK CARD
PVC
V0
-30 ... 80
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Description	Color
<b>UniSheet</b> , 0.5 mm thick, can be marked with THERMOMARK CARD	
88-section, lettering field size: 8.8 x 15 mm	white yellow red silver
54-section, lettering field size: 17 x 15 mm	white yellow silver
27-section, lettering field size: 27 x 15 mm	white yellow silver
24-section, lettering field size: 35 x 15 mm	white yellow red silver
18-section, lettering field size: 49 x 15 mm	white yellow silver
16-section, lettering field size: 52.5 x 15 mm	white yellow red silver
9-section, lettering field size: 60 x 15 mm	white yellow silver
8-section, lettering field size: 70 x 15 mm	white yellow red silver
9-section, lettering field size: 100 x 15 mm	white yellow silver

#### Ordering data

Type	Order No.	Pcs. / Pkt.
US-EMP (8,8X15)	0830293	10
US-EMP (8,8X15) YE	0830426	10
US-EMP (8,8X15) RD	0830428	10
US-EMP (8,8X15) SR	0830427	10
US-EMP (17X15)	0828774	10
US-EMP (17X15) YE	0828842	10
US-EMP (17X15) SR	0828843	10
US-EMP (27X15)	0828777	10
US-EMP (27X15) YE	0828848	10
US-EMP (27X15) SR	0828849	10
US-EMP (35X15)	0830295	10
US-EMP (35X15) YE	0830307	10
US-EMP (35X15) RD	0830309	10
US-EMP (35X15) SR	0830308	10
US-EMP (49X15)	0828780	10
US-EMP (49X15) YE	0828854	10
US-EMP (49X15) SR	0828855	10
US-EMP (52,5X15)	0830296	10
US-EMP (52,5X15) YE	0830310	10
US-EMP (52,5X15) RD	0830312	10
US-EMP (52,5X15) SR	0830311	10
US-EMP (60X15)	0828781	10
US-EMP (60X15) YE	0828856	10
US-EMP (60X15) SR	0828857	10
US-EMP (70X15)	0830297	10
US-EMP (70X15) YE	0830313	10
US-EMP (70X15) RD	0830315	10
US-EMP (70X15) SR	0830314	10
US-EMP (100X15)	0829521	10
US-EMP (100X15) YE	0829522	10
US-EMP (100X15) SR	0829523	10

<b>Profile</b> , for screwing or riveting, 1000 mm long, for accommodating UC-... / US-... / EMT ... and EMP-AL material with a height of 15 mm	gray transparent
<b>Profile</b> , self-adhesive, 1000 mm long, for accommodating UC-... / US-... / EMT ... and EMP-AL ... material with a height of 15 mm	gray transparent
<b>CARRIER cover</b> , 1000 mm long	transparent
<b>Magazine</b> , for THERMOMARK CARD..., for accommodating all US-materials	

#### Accessories

	Order No.	Pcs. / Pkt.
CARRIER-EMP (1000X15) GY	0829366	25
CARRIER-EMP (1000X15) TR	0829530	25
CARRIER/L-EMP (1000X15) GY	0829559	25
CARRIER/L-EMP (1000X15) TR	0829560	25
CARRIER-EMP (1000X15) COVER	0829520	25
THERMOMARK CARD-US-MAG1	5146451	1

**UniSheet device marking for screwing or riveting**

Can be marked using:



Thermal transfer for sheets and cards



Unmarked or marked according to customer specifications

- The US-EMSP ... UniSheet marking range includes markers that can be attached using screws or rivets
- The markers, which are supplied in uniform sheets, can be printed onto quickly, easily, and cost-effectively using the THERMOMARK CARD
- The perforated markers are easy to separate and can be easily fitted
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all UniSheet markers in accordance with your requirements

**Notes:**  
For corresponding rivets for fixing the US-EMSP ....., see page 368.

General data	
Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Description	Color
<b>UniSheet</b> , 0.5 mm thick, with mounting holes 3.2 mm in diameter	
4-section, lettering field size: 50 x 30 mm	white
	yellow
	silver
2-section, lettering field size: 75.6 x 54 mm	white
	yellow
	silver
2-section, lettering field size: 90 x 60 mm	white
	yellow
	silver
	red
	blue

**Magazine**, for THERMOMARK CARD..., for accommodating all US-materials

Technical data
THERMOMARK CARD
PVC
V0
-30 ... 80
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Ordering data		
Type	Order No.	Pcs. / Pkt.
US-EMSP (50X30)	0828786	10
US-EMSP (50X30) YE	0828927	10
US-EMSP (50X30) SR	0828928	10
US-EMSP (75,6X54)	0828787	10
US-EMSP (75,6X54) YE	0828929	10
US-EMSP (75,6X54) SR	0828930	10
US-EMSP (90X60)	0828788	10
US-EMSP (90X60) YE	0828931	10
US-EMSP (90X60) SR	0828932	10
US-EMSP (90X60) RD	0802937	10
US-EMSP (90X60) BU	0803038	10

Accessories		
	Order No.	Pcs. / Pkt.
THERMOMARK CARD-US-MAG1	5146451	1

## Device marking

### UniSheet device marking for sticking on and additional screwing or riveting

Can be marked using:



Thermal transfer for sheets and cards

PRINTED  
FOR YOU



Unmarked or marked according to customer specifications

- The US-EMLSP ... UniSheet marking range includes adhesive markers which can also be attached with screws or rivets
- The markers, which are supplied in uniform sheets, can be printed onto quickly, easily, and cost-effectively using the THERMOMARK CARD
- The perforated markers are easy to separate and can be easily fitted
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all UniSheet markers in accordance with your requirements

**Notes:**  
For corresponding rivets for fixing the UC-EMLSP ..., see page 368.  
For drilling diagrams, visit [phoenixcontact.net/products](http://phoenixcontact.net/products)

General data	
Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Description	Color
UniSheet, with self-adhesive plastic labels, mounting holes with 3.2 mm diameter, 0.5 mm thick	
Lettering field size: 28 x 10 mm	white yellow silver

Magazine, for THERMOMARK CARD..., for accommodating all US-materials

Technical data	
THERMOMARK CARD	
PVC	
V0	
-30 ... 80	
DIN EN 61010-1 (VDE 0411-1)	
Silicone-free	

Ordering data		
Type	Order No.	Pcs. / Pkt.
US-EMLSP (28X10)	0830343	10
US-EMLSP (28X10) YE	0830344	10
US-EMLSP (28X10) SR	0830329	10

Accessories		
Type	Order No.	Pcs. / Pkt.
THERMOMARK CARD-US-MAG1	5146451	1

**UniSheet device marking, stick-on labels**

Can be marked using:



Thermal transfer for sheets and cards

PRINTED  
FOR YOU



Unmarked or marked according to customer specifications

- The US-EML ... UniSheet marking ranges include markers for marking equipment in switchgear and systems manufacturing
- The markers, which are supplied in uniform sheets, can be printed onto quickly, easily, and cost-effectively using the THERMOMARK CARD
- The perforated markers and labels are easy to separate and can be easily fitted
- When used in conjunction with high-quality ink ribbons, they result in a highly resistant form of marking that is suitable for harsh environments
- The sheets provide space to include function texts
- The US-EML ... material is UL-listed

General data	
Can be marked using	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data	
THERMOMARK CARD	
Polyester	
-40 ... 150	
DIN EN 61010-1 (VDE 0411-1)	
Free from silicone and halogen	

Description	Color
<b>UniSheet</b> , with self-adhesive labels 80-section, lettering field size: 17.5 x 8 mm	white
	yellow
64-section, lettering field size: 20 x 8 mm	white
	yellow
34-section, lettering field size: 104 x 3.8 mm	white
1-section, lettering field size: 104 x 140 mm	white
	yellow
	silver

Ordering data		
Type	Order No.	Pcs. / Pkt.
<b>US-EML (17,5X8)</b>	<b>0800461</b>	10
<b>US-EML (17,5X8) YE</b>	<b>0800463</b>	10
<b>US-EML (20X8)</b>	<b>0800458</b>	10
<b>US-EML (20X8) YE</b>	<b>0800460</b>	10
<b>US-EML (104X3,8)</b>	<b>0800464</b>	10
<b>US-EML (104X140)</b>	<b>0800465</b>	10
<b>US-EML (104X140) YE</b>	<b>0800467</b>	10
<b>US-EML (104X140) SR</b>	<b>0800466</b>	10

Accessories		
<b>Magazine</b> , for THERMOMARK CARD..., for accommodating all US-materials		

<b>THERMOMARK CARD-US-MAG1</b>	<b>5146451</b>	1
--------------------------------	----------------	---

## Device marking

### UniSheet - stick-on combi labels, unprinted

Can be marked using:



Thermal transfer for sheets and cards

PRINTED  
FOR YOU



Unmarked or marked according to customer specifications

The unmarked US-EMLF ... combi labels on US ... cards allow you to create custom information signs. A variety of symbols which conform to ISO 7010 are available in the CLIP PROJECT software. The markers offer the following features:

- High adhesive strength
- Suitable for indoor and outdoor use
- The markers, which are supplied in uniform sheets, can be marked quickly, easily, and inexpensively
- The format automatically ensures printing with a high level of positional accuracy
- The perforated markers are easy to separate

General data	
Can be marked using	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

### Technical data

THERMOMARK CARD
PVC
-40 ... 90
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Description	Color
<b>UniSheet</b> , with self-adhesive labels, 2-section, lettering field size: 104 x 70 mm	
	white
	yellow
	blue
<b>UniSheet</b> , with self-adhesive labels, 1-section, lettering field size: 104 x 140 mm	
	white
	yellow
	blue

### Ordering data

Type	Order No.	Pcs. / Pkt.
US-EMLF (104X70)	1014294	10
US-EMLF (104X70) YE	1014295	10
US-EMLF (104X70) BU	1014296	10
US-EMLF (104X140)	1014291	10
US-EMLF (104X140) YE	1014292	10
US-EMLF (104X140) BU	1014293	10

<b>Magazine</b> , for THERMOMARK CARD..., for accommodating all US-materials
--

### Accessories

THERMOMARK CARD-US-MAG1	5146451	1
-------------------------	---------	---



## Device marking

### Stick-on device marking



- EML ... self-adhesive device markers have been specially developed to allow the marking of various types of operating equipment in control, system, and control cabinet engineering applications
- Precise printing quality and good adhesive properties
- If high-quality ink ribbons are used, the marking is resistant to solvents, making it suitable for use even under harsh industrial conditions
- A wide range of marker sizes and colors are available for custom designs
- The special packaging protects rolls that have already been started from the dirt found in industrial environments
- The EML ... materials are UL-listed
- **Designation example: EML (10X4)R...**  
Lettering field size: 10 x 4 mm  
Type of packaging: roll

**Notes:**  
The THERMOMARK ROLL-ERH external media hub is required for RL rolls, see under "Printers" on page 36.  
For additional label sizes, see the product area on our website at [phoenixcontact.net/products](http://phoenixcontact.net/products)



Can be marked using:



Thermal transfer for rolls



Unmarked or marked according to customer specifications, white



General data	
Can be marked using	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data	
THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1	
Polyester	
-40 ... 150	
DIN EN 61010-1 (VDE 0411-1)	
Free from silicone and halogen	

Ordering data	
Description	Type
<b>Labels</b>	
10,000 labels per roll	EML (10X4)R
10,000 labels per roll	EML (10X7)R
2500 labels per roll	EML (15X6)R
2500 labels per roll	EML (15X9)R
2500 labels per roll	EML (16,5X5)R
10,000 labels per roll	EML (16X7)R
2500 labels per roll	EML (17,5X8)R
2500 labels per roll	EML (19X6)R
2500 labels per roll	EML (20X8)R
2500 labels per roll	EML (24X3)R
2500 labels per roll	EML (24X4)R
<b>Labels for thermal transfer printer</b>	
2500 labels per roll	EML (25,4X12,7)R
2500 labels per roll	
2500 labels per roll	
2500 labels per roll	
2500 labels per roll	
1000 labels per roll	EML (30X20)R
2500 labels per roll	
1000 labels per roll	EML (36X25)R
2500 labels per roll	EML (38X17)R
2500 labels per roll	EML (40X6)R
1000 labels per roll	EML (40X8)R
1000 labels per roll	EML (40X25)R
1000 labels per roll	EML (51X25)R
2500 labels per roll	
1000 labels per roll	EML (70X32)R
400 labels per roll	EML (70X50)R
2500 labels per roll	EML (75X10)R
1000 labels per roll	EML (80X20)R
2500 labels per roll	EML (90X5)R
1000 labels per roll	EML (105X23)R
500 labels per roll	
300 labels p. roll	EML (100X73)R
250 labels p. roll	EML (100X90)R

Ordering data		
Type	Order No.	Pcs. / Pkt.
EML (10X4)R	0815583	1
EML (10X7)R	0816663	1
EML (15X6)R	0803275	1
EML (15X9)R	0815677	1
EML (16,5X5)R	0816702	1
EML (16X7)R	0818001	1
EML (17,5X8)R	0816744	1
EML (19X6)R	0816760	1
EML (20X8)R	0816786	1
EML (24X3)R	0830291	1
EML (24X4)R	0800061	1
EML (25,4X12,7)R	0816825	1
EML (30X20)R	0816922	1
EML (36X25)R	0803136	1
EML (38X17)R	0816951	1
EML (40X6)R	0830481	1
EML (40X8)R	0816980	1
EML (40X25)R	0818027	1
EML (51X25)R	0817028	1
EML (70X32)R	0817060	1
EML (70X50)R	0817099	1
EML (75X10)R	0830485	1
EML (80X20)R	0803138	1
EML (90X5)R	0817109	1
EML (105X23)R	0803137	1
EML (100X73)R	0817125	1
EML (100X90)R	0817154	1





Unmarked or marked according to customer specifications, yellow



Unmarked or marked according to customer specifications, silver



**Technical data**

**Technical data**

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1  
 Polyester  
 -40 ... 150  
 DIN EN 61010-1 (VDE 0411-1)  
 Free from silicone and halogen

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1  
 Polyester  
 -40 ... 150  
 DIN EN 61010-1 (VDE 0411-1)  
 Free from silicone and halogen

**Ordering data**

**Ordering data**

Type	Order No.	Pcs. / Pkt.
EML (10X7)R YE	0816676	1
EML (15X6) R YE	0819288	1
EML (15X9)R YE	0816045	1
EML (16,5X5)R YE	0816728	1
EML (16X7)R YE	0816731	1
EML (17,5X8)R YE	0816757	1
EML (19X6)R YE	0800107	1
EML (20X7)R YE	0816773	1
EML (20X8)R YE	0816799	1
EML (25,4X12,7)R YE	0816838	1
EML (26,5X17,5)R YE	0816896	1
EML (30X20)R YE	0816935	1
EML (32X25)R YE	0800020	1
EML (40X6)R YE	0830482	1
EML (40X25)R YE	0816977	1
EML (51X25)R YE	0817031	1
EML (50X10)R YE	0830484	1
EML (70X32)R YE	0817073	1
EML (75X10)R YE	0830486	1
EML (100X30)R YE	0801816	1
EML (100X73)R YE	0817138	1

Type	Order No.	Pcs. / Pkt.
EML (15X9)R SR	0816032	1
EML (21,5X21,5)R SR	0816812	1
EML (26,5X7,5)R SR	0816841	1
EML (26,5X12)R SR	0816854	1
EML (26,5X17,5)R SR	0816883	1
EML (26,5X18,5)R SR	0816906	1
EML (26,5X26,5)R SR	0816919	1
EML (40X15)R SR	0815729	1
EML (51X25)R SR	0817002	1
EML (70X32)R SR	0817057	1
EML (70X50)R SR	0817086	1
EML (100X73)R SR	0817112	1
EML (100X90)R SR	0817141	1

## Device marking

### Stick-on device marking

Can be marked using:



Thermal transfer for rolls



Unmarked or marked according to customer specifications, transparent and white

- EML ... self-adhesive device markers have been specially developed to allow the marking of various types of operating equipment in control, system, and control cabinet engineering applications
- Precise printing quality and good adhesive properties
- If high-quality ink ribbons are used, the marking is resistant to solvents, making it suitable for use even under harsh industrial conditions
- A wide range of marker sizes and colors are available for custom designs
- The special packaging protects rolls that have already been started from the dirt found in industrial environments
- The EML ... materials are UL-listed
- **Designation example: EML (10X4)R...**  
Lettering field size: 10 x 4 mm  
Type of packaging: roll

General data	
Can be marked using	
Material	
Temperature range	[°C]
Wipe resistance	
Components	



### Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1  
Polyester  
-40 ... 150  
DIN EN 61010-1 (VDE 0411-1)  
Free from silicone and halogen

### Ordering data

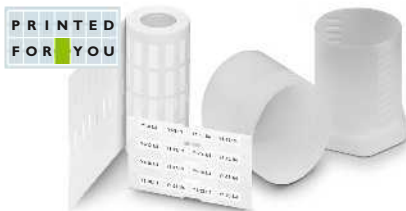
Description
Labels, on large roll
10,000 labels per roll
10,000 labels per roll
10,000 labels per roll
10,000 labels per roll
10,000 labels per roll
10,000 labels per roll
10,000 labels per roll
10,000 labels per roll
10,000 labels per roll
10,000 labels per roll
10,000 labels per roll
10,000 labels per roll
10,000 labels per roll
Labels, round, 17.5 mm diameter
2500 labels per roll
Labels, on large roll
Width: 37 mm, length: 90 m
Width: 100 mm, length: 90 m
Labels, on large roll
20,000 labels per roll
Endless label
Width: 110 mm, length 40 m

Type	Order No.	Pcs. / Pkt.
EML (16,5X5)RL	0816113	1
EML (19X6,4)RL	0816142	1
EML (25,4X12,7)RL	0816087	1
EML (38,1X19)RL	0816171	1
EML (50,8X25,4)RL	0816184	1
EML (69,8X31,8)RL	0816197	1
EML (D17,5)R	0815774	1
EML (25,4X12,7)R TR	0801841	1
EML (37XE)RL TR	0815716	1
EML (51X12,5)R TR	0815745	1
EML (20X8)RXL	0802762	1
EML (110XE)R	0815596	1





Unmarked or marked according to customer specifications, yellow



Unmarked or marked according to customer specifications, silver



**Technical data**

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1  
 Polyester  
 -40 ... 150  
 DIN EN 61010-1 (VDE 0411-1)  
 Free from silicone and halogen

**Technical data**

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1  
 Polyester  
 -40 ... 150  
 DIN EN 61010-1 (VDE 0411-1)  
 Free from silicone and halogen

**Ordering data**

Type	Order No.	Pcs. / Pkt.
EML (16,5X5)RL YE	0816126	1
EML (17,5X8)RL YE	0816139	1
EML (18X6)RL YE	0828460	1
EML (18X7)RL YE	0802733	1
EML (30X20)RL YE	0816168	1
EML (76,2X6,5)RL YE	0816207	1
EML (110XE)R YE	0815606	1

**Ordering data**

Type	Order No.	Pcs. / Pkt.
EML (101,6X25,4)RL SR	0815790	1
EML (100XE)RL SR	0815787	1
EML (110XE)R SR	0801994	1

## Device marking

### Stick-on device marking for applications in process engineering



Can be marked using:



Thermal transfer for rolls

PRINTED  
FOR YOU



Unmarked or marked according to customer specifications

- The EML...-EX self-adhesive device markers have been specifically developed for marking various types of equipment in the Ex area
- The marking requirements in terms of legibility, adhesion, and wipe resistance in potentially explosive areas (ATEX), according to IEC/EN 60079-0, can also be ensured following storage in typical gas atmospheres. Phoenix Contact developed these labels especially for process engineering, which is where these requirements typically arise. These labels meet the requirements for wipe resistance according to DIN EN 61010-1 against aggressive media such as acetone, ethanol, and MEK
- They are only suitable in conjunction with the TM- RIBBON110-EX
- Thanks to the special surface and adhesive, the marker meets the demanding requirements of process engineering
- If high-quality ink ribbons are used, the marking is resistant to solvents, making it suitable for use even under harsh industrial conditions
- A wide range of marker sizes and colors are available for custom designs
- The special packaging protects rolls that have already been started from the dirt found in industrial environments
- **Designation example:**  
**EML (10x4)R-EX**  
Lettering field size: 10 x 4 mm  
Type of packaging: roll
- Marking service: Phoenix Contact can custom-mark all EML markers according to your requirements

#### General data

Can be marked using

Material  
Temperature range [°C]  
Wipe resistance  
Components

Description	Color
<b>Labels</b>	
10,000 labels per roll	white
2500 labels per roll	white
2500 labels per roll	white
2500 labels per roll	white
1000 labels per roll	white
400 labels per roll	white
300 labels p. roll	white
300 labels p. roll	white
250 labels p. roll	white

Ink ribbon, length: 300 m, width: 110 mm, color: black

#### Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1  
Polyester  
-40 ... 150  
DIN EN 61010-1 (VDE 0411-1)  
Free from silicone and halogen

#### Ordering data

Type	Order No.	Pcs. / Pkt.
EML (10X4)R-EX	0803251	1
EML (15X9)R-EX	0803253	1
EML (20X8)R-EX	0803254	1
EML (30X20)R-EX	0803255	1
EML (40X25)R-EX	0803256	1
EML (70X50)R-EX	0803257	1
EML (100X40)R-EX	0803258	1
EML (100X73)R-EX	0803259	1
EML (100X90)R-EX	0803260	1

#### Accessories

TM-RIBBON 110-EX	0803211	1
------------------	---------	---

Stick-on device marking

Can be marked using:



Thermal transfer for rolls



Unmarked or marked according to customer specifications

- The EMLP ... self-adhesive markers meet the same standards as the engraved labels
- Quick and cost-effective marking with THERMOMARK ... printers
- High-quality appearance
- High level of resistance to chemical and mechanical effects
- Primarily used for marking electrical components, devices, and buttons
- **Designation example: EMLP(13x9)R**  
Lettering field size :13 x 9 mm  
Type of packaging: roll
- Marking service: Phoenix Contact can custom-mark all EMLP ... markers in accordance with your requirements

General data

Can be marked using

Material

Temperature range

Wipe resistance

Components

[°C]

Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.2

Polyester

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

Free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
<b>Markers</b>				
500 markers per roll	white	EMLP (13X9)R	0819453	1
500 markers per roll	white	EMLP (17X7)R	0826844	1
500 markers per roll	white	EMLP (17,5X12)R	0819466	1
3000 markers per roll	white	EMLP (17,5X15)R	0802684	1
500 markers per roll	white	EMLP (20X7)R	0819479	1
500 markers per roll	white	EMLP (20X8)R	0819482	1
500 markers per roll	white	EMLP (22X12)R	0819495	1
500 markers per roll	white	EMLP (45X15)R	0801820	1
500 markers per roll	white	EMLP (45X25)R	0802727	1
250 markers per roll	white	EMLP (60X30)R	0819505	1
500 markers per roll	white	EMLP (65X25)R	0802728	1
3000 markers per roll	silver	EMLP (17,5X15)R SR	0802685	1
500 markers per roll	silver	EMLP (27X8)R SR	0819518	1
500 markers per roll	silver	EMLP (27X12,5)R SR	0819521	1
500 markers per roll	silver	EMLP (27X18)R SR	0819534	1
500 markers per roll	silver	EMLP (22X22)R SR	0825528	1
500 markers per roll	silver	EMLP (27X27)R SR	0827467	1
500 markers per roll	silver	EMLP (45X15)R SR	0819547	1
250 markers per roll	silver	EMLP (60X30)R SR	0801729	1

## Device marking

### Stick-on device marking, continuous

Can be marked using:



Thermal transfer for rolls



Unmarked or marked according to customer specifications

- The EMLP Ex... self-adhesive continuous markers are equivalent to engraved labels
- Quick and cost-effective marking with THERMOMARK ... printers
- High-quality appearance
- High level of resistance to chemical and mechanical effects
- Primarily used for marking electrical components, devices, and buttons
- **Designation example:**  
**EMLP(13x9)R**  
Lettering field size :13 x 9 mm  
Type of packaging: roll
- Marking service: Phoenix Contact can custom-mark all EMLP ... markers in accordance with your requirements

#### General data

Can be marked using

Material  
Temperature range  
Wipe resistance  
Components

[°C]

#### Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 •  
THERMOMARK X1.2  
Polyester  
-40 ... 120  
DIN EN 61010-1 (VDE 0411-1)  
Free from silicone and halogen

#### Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
<b>Continuous roll</b>				
Width: 15 mm, length: 20 m	white	EMLP (EX15)R	0802686	1
	silver	EMLP (EX15)R SR	0802687	1
	yellow	EMLP (EX15)R YE	0803276	1
	black	EMLP (EX15)R BK	0803279	1
	blue	EMLP (EX15)R BU	0803277	1
	red	EMLP (EX15)R RD	0803280	1
Width: 30 mm, length: 20 m	white	EMLP (EX30)R	0802688	1
	silver	EMLP (EX30)R SR	0802689	1
	red	EMLP (EX30)R RD	0803436	1

**Stick-on device marking, for 24 mm buttons**

Can be marked using:



Thermal transfer for rolls



Unmarked or marked according to customer specifications

- The EMLP 24 ... self-adhesive markers are ideal for marking electrical buttons
- Quick and cost-effective marking with THERMOMARK ... printers
- High-quality appearance
- High level of resistance to chemical and mechanical effects
- Marking service: Phoenix Contact can custom-mark all EMLP ... markers in accordance with your requirements

General data	
Can be marked using	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data
THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.2
Polyester
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Description	Color
<b>Markers for 24 mm buttons, can be marked with thermal transfer printer</b>	
500 markers per roll	white
500 markers per roll	silver
500 markers per roll	red
500 markers per roll	green

Ordering data		
Type	Order No.	Pcs. / Pkt.
EMLP 24 (30X12)R	0819550	1
EMLP 24 (30X12)R SR	0819563	1
EMLP 24 (30X12)R RD	0819576	1
EMLP 24 (30X12)R GN	0819589	1

# Marking and labeling - MARKING system

## Device marking

### Stick-on device marking, for 30 mm buttons



- The EMLP 30 ... self-adhesive markers are ideal for marking electrical buttons
- Quick and cost-effective marking with THERMOMARK ... printers
- High-quality appearance
- High level of resistance to chemical and mechanical effects

#### Notes:

If using THERMOMARK ROLL, use the external ROLL-ERH media hub.



Unmarked or marked according to customer specifications

#### Technical data

#### General data

Can be marked using

Material  
Temperature range [°C]  
Wipe resistance  
Components

THERMOMARK ROLL • THERMOMARK ROLL X1 •  
THERMOMARK X1.2  
Polyester  
-40 ... 120  
DIN EN 61010-1 (VDE 0411-1)  
Free from silicone and halogen

#### Ordering data

Description	Color
<b>Markers for 30 mm buttons</b> , can be marked with thermal transfer printers	
500 markers per roll	white
500 markers per roll	yellow
500 markers per roll	black

Type	Order No.	Pcs. / Pkt.
EMLP 30(45X10)R	0801855	1
EMLP 30(45X10)R YE	0801857	1
EMLP 30(45X10)R BK	0801858	1

### Highly flexible PVC stick-on device marking



- Highly flexible, soft PVC label that adapts well to uneven surfaces
- Extremely high-quality appearance
- Outdoor-durable for up to eight years when subject to a temperature range of -40°C to 90°C



Unmarked or marked according to customer specifications

#### Technical data

#### General data

Can be marked using

Material  
Temperature range [°C]  
Wipe resistance

THERMOMARK ROLL • THERMOMARK ROLL X1 •  
THERMOMARK X1.2  
PVC  
-40 ... 90  
DIN EN 61010-1 (VDE 0411-1)

#### Ordering data

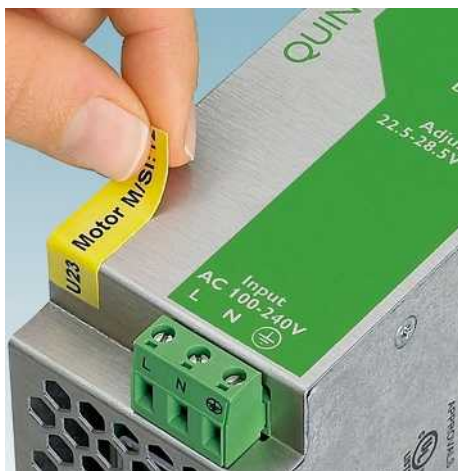
Description	Color
<b>Continuous label</b> , width: 108 mm, length: 48 m	
	white
	yellow
	silver
	transparent

Type	Order No.	Pcs. / Pkt.
EMLF (108XE)R	0800549	1
EMLF (108XE)R YE	0800550	1
EMLF (108XE)R SR	0800551	1
EMLF (108XE)R TR	0800552	1



Highly flexible stick-on textile foil

Can be marked using:



Thermal transfer for rolls



Unmarked or marked according to customer specifications

- Textile foil with extremely low restoring forces
- Enables labels to be stuck over edges and curves
- Halogen-free material
- Outdoor-durable for one to two years when subject to a temperature range of -40°C to +150°C

General data

Can be marked using

Material

Temperature range

[°C]

Wipe resistance

Components

Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.2

PA

-40 ... 150

DIN EN 61010-1 (VDE 0411-1)

Free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
<b>Fabric label</b>				
10,000 labels per roll	white	EMLC (5,5X20)R	0817617	1
5000 labels per roll	white	EMLC (5,5X40)R	0817620	1
2500 labels per roll	yellow	EMLC (15X9)R YE	0800236	1
2500 labels per roll	yellow	EMLC (17,5X8)R YE	0800237	1
2500 labels per roll	white	EMLC (20X8)R	0815680	1
2500 labels per roll	yellow	EMLC (20X8)R YE	0800235	1
10,000 labels per roll	yellow	EMLC (20X8)RL YE	0815800	1
2500 labels per roll	yellow	EMLC (25X8)R YE	0800240	1
2500 labels per roll	yellow	EMLC (25,4X12,7)R YE	0800238	1
1000 labels per roll	yellow	EMLC (38X17)R YE	0800557	1
1000 labels per roll	white	EMLC (40X8)R	0800554	1
1000 labels per roll	yellow	EMLC (40X8)R YE	0800555	1
750 labels per roll	yellow	EMLC (51X25)R YE	0800558	1

## Device marking

### Device marking for sticking onto rough or structured surfaces



- The EML–HA ... self-adhesive device markers have excellent adhesive properties on rough, structured, and low-energy surfaces, thanks to their special adhesive.
- Precise printing quality and good adhesive properties
  - If high-quality ink ribbons are used, the marking is resistant to solvents, making it suitable for use even under harsh industrial conditions
  - A wide range of different marker sizes are available in white and silver for custom designs
  - The special packaging protects rolls that have already been started from the dirt found in industrial environments
  - Marking service: Phoenix Contact can custom-mark all EML–HA ... labels according to your requirements
  - The marking material is UL listed
  - **Designation example:**  
**EML-HA (15x9)R**  
Lettering field size: 15 x 9 mm  
Type of packaging: roll

Can be marked using:



Thermal transfer for rolls

PRINTED  
FOR YOU



Unmarked or marked according to customer specifications



### Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 •  
THERMOMARK X1.2  
Polyester  
-40 ... 150  
DIN EN 61010-1 (VDE 0411-1)  
Free from silicone and halogen

### Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
<b>Label, for rough plastic surfaces, highly adhesive, white</b>				
2500 labels per roll	white	EML-HA (15X9)R	0830600	1
2500 labels per roll	white	EML-HA (19X6)R	0830601	1
2500 labels per roll	white	EML-HA (20X20)R	0830602	1
2500 labels per roll	white	EML-HA (26,5X12)R	0830603	1
2500 labels per roll	white	EML-HA (40X8)R	0830604	1
1000 labels per roll	white	EML-HA (40X15)R	0830605	1
1000 labels per roll	white	EML-HA (51X25)R	0830729	1
1000 labels per roll	white	EML-HA (60X30)R	0830606	1
1000 labels per roll	white	EML-HA (70X32)R	0830607	1
1000 labels per roll	white	EML-HA (70X50)R	0830730	1
250 labels p. roll	white	EML-HA (70X150)R	0830608	1
1000 labels per roll	white	EML-HA (76X51)R	0830609	1
1000 labels per roll	white	EML-HA (85X32)R	0830610	1
300 labels p. roll	white	EML-HA (100X73)R	0830731	1
250 labels p. roll	white	EML-HA (100X90)R	0830732	1
<b>Label, for rough plastic surfaces, highly adhesive, silver</b>				
2500 labels per roll	silver	EML-HA (15X9)R SR	0830611	1
2500 labels per roll	silver	EML-HA (19X6)R SR	0830612	1
2500 labels per roll	silver	EML-HA (20X20)R SR	0830613	1
2500 labels per roll	silver	EML-HA (26,5X12)R SR	0830614	1
2500 labels per roll	silver	EML-HA (40X8)R SR	0830615	1
1000 labels per roll	silver	EML-HA (40X15)R SR	0830616	1
1000 labels per roll	silver	EML-HA (51X25)R SR	0830733	1
1000 labels per roll	silver	EML-HA (60X30)R SR	0830617	1
1000 labels per roll	silver	EML-HA (70X32)R SR	0830618	1
1000 labels per roll	silver	EML-HA (70X50)R SR	0830734	1
250 labels p. roll	silver	EML-HA (70X150)R SR	0830619	1
1000 labels per roll	silver	EML-HA (76X51)R SR	0830620	1
1000 labels per roll	silver	EML-HA (85X32)R SR	0830621	1
300 labels p. roll	silver	EML-HA (100X73)R SR	0830735	1
250 labels p. roll	silver	EML-HA (100X90)R SR	0830736	1

Stick-on device marking, for high-temperature applications



Can be marked using:



Thermal transfer for rolls



Unmarked or marked according to customer specifications

- White polyimide labels with high level of temperature resistance
- Continuous temperature range of -40°C to +180°C, up to +300°C temporarily, for up to 60 seconds
- For marking PCBs, can be used in all industrial soldering processes
- High weathering and chemical resistance
- The marking material is UL listed
- Protection against tampering: the labels cannot be removed without disintegrating
- **Designation example:**  
**EML-HT (8x8)R**  
Lettering field size: 8 x 8 mm  
Type of packaging: roll
- Single-web large roll with 8000 or 10,000 labels (see figure below)

**Notes:**

The THERMOMARK-RIBBON 110-EML-HT ink ribbon is required for marking EM-LHT... high-temperature labels, see under "Printers", page 37.

If large rolls are processed with the THERMOMARK ROLL, the external THERMOMARK ROLL-ERH media hub must be used.

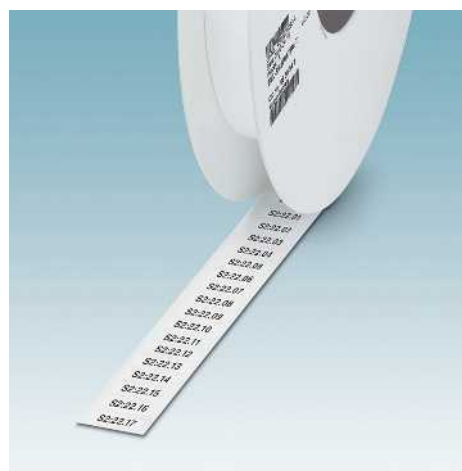
EML-HT...RL-T cannot be marked with the THERMOMARK S1.1.

General data	
Can be marked using	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Description	Color
<b>High-temperature labels</b>	
4000 labels per roll	white
4000 labels per roll	white
4000 labels per roll	white
4000 labels per roll	white
4000 labels per roll	white
2500 labels per roll	white
2500 labels per roll	white
2500 labels per roll	white
1000 labels per roll	white
2500 labels per roll	white
1000 labels per roll	white
2500 labels per roll	white
1000 labels per roll	white
1000 labels per roll	white
1000 labels per roll, round, 12 mm diameter	white
<b>High-temperature labels, on large roll</b>	
10,000 labels per roll	white
10,000 labels per roll	white
8000 labels per roll	white
10,000 labels per roll	white
10,000 labels per roll	white
10,000 labels per roll	white
10,000 labels per roll	white
10,000 labels per roll	white
10,000 labels per roll	white
10,000 labels per roll	white
8000 labels per roll	white
10,000 labels per roll	white
10,000 labels per roll	white

Technical data	
THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1	
Acrylate	
-40 ... 180	
DIN EN 61010-1 (VDE 0411-1)	
Free from silicone and halogen	

Ordering data				
Type	Order No.	Pcs. / Pkt.		
EML-HT (8X8)R	0800340	1		
EML-HT (15X6)R	0830644	1		
EML-HT (15X15)R	0800341	1		
EML-HT (20X7)R	0830645	1		
EML-HT (24X4)R	0830646	1		
EML-HT (25X8)R	0830647	1		
EML-HT (25,4X12,7)R	0830648	1		
EML-HT (32X10)R	0830649	1		
EML-HT (35X6,5)R	0830650	1		
EML-HT (40X15)R	0800339	1		
EML-HT (45X5)R	0800337	1		
EML-HT (50X10)R	0800338	1		
EML-HT (D12)R	0801376	1		
EML-HT (8X8)RL-T	0830651	1		
EML-HT (15X6)RL-T	0830652	1		
EML-HT (15X15)RL-T	0830653	1		
EML-HT (20X7)RL-T	0830654	1		
EML-HT (24X4)RL-T	0830655	1		
EML-HT (25X8)RL-T	0830656	1		
EML-HT (25,4X12,7)RL-T	0830657	1		
EML-HT (32X10)RL-T	0830658	1		
EML-HT (35X6,5)RL-T	0830659	1		
EML-HT (40X15)RL-T	0830660	1		
EML-HT (45X5)RL-T	0830661	1		
EML-HT (50X10)RL-T	0830662	1		



Ink ribbon, specifically for high-temperature labels, EML-HT...	
black	

Accessories		
THERMOMARK-RIBBON 110-EML-HT	0800342	1

## Device marking

### Stick-on device marking, for ESD applications



- Safe marking for sensitive components on PCBs
- Static dissipative adhesive: prevents transmission of voltage and protects the component against electrostatic discharge
- Marking service: Phoenix Contact can custom-mark all EML-ESD ... markers according to your requirements
- **Designation example:**  
**EML-ESD (8x8)R**  
Lettering field size: 8 x 8 mm  
Type of packaging: roll

**Notes:**  
If large rolls are processed with the THERMOMARK ROLL, the external THERMOMARK ROLL-ERH media hub must be used.  
EML-ESD... RL-T cannot be marked with the THERMOMARK S1.1.

Can be marked using:



Thermal transfer for rolls

PRINTED  
FOR YOU



Unmarked or marked according to customer specifications



#### Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1  
Polyester  
Temperature range [-40 ... 150 °C]  
Wipe resistance  
Components  
Free from silicone and halogen

#### Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
<b>Device marking, roll</b>				
4000 labels per roll	white	EML-ESD (8X8)R	0830564	1
4000 labels per roll	white	EML-ESD (15X6)R	0830565	1
4000 labels per roll	white	EML-ESD (15X15)R	0830566	1
4000 labels per roll	white	EML-ESD (20X7)R	0830567	1
4000 labels per roll	white	EML-ESD (24X4)R	0830568	1
4000 labels per roll	white	EML-ESD (25X8)R	0830569	1
2500 labels per roll	white	EML-ESD (25,4X12,7)R	0830570	1
2500 labels per roll	white	EML-ESD (32X10)R	0830571	1
2500 labels per roll	white	EML-ESD (35X6,5)R	0830572	1
2500 labels per roll	white	EML-ESD (40X15)R	0830573	1
2500 labels per roll	white	EML-ESD (45X5)R	0830574	1
1000 labels per roll	white	EML-ESD (50X10)R	0830575	1
<b>Device marking, large roll</b>				
10,000 labels per roll	white	EML-ESD (8X8)RL-T	0830576	1
10,000 labels per roll	white	EML-ESD (15X6)RL-T	0830577	1
8000 labels per roll	white	EML-ESD (15X15)RL-T	0830578	1
10,000 labels per roll	white	EML-ESD (20X7)RL-T	0830579	1
10,000 labels per roll	white	EML-ESD (24X4)RL-T	0830580	1
10,000 labels per roll	white	EML-ESD (25X8)RL-T	0830581	1
10,000 labels per roll	white	EML-ESD (25,4X12,7)RL-T	0830582	1
10,000 labels per roll	white	EML-ESD (32X10)RL-T	0830583	1
10,000 labels per roll	white	EML-ESD (35X6,5)RL-T	0830584	1
8000 labels per roll	white	EML-ESD (40X15)RL-T	0830585	1
10,000 labels per roll	white	EML-ESD (45X5)RL-T	0830586	1
10,000 labels per roll	white	EML-ESD (50X10)RL-T	0830587	1



Stick-on device marking, removable

Can be marked using:



Thermal transfer for rolls

PRINTED  
FOR YOU



Unmarked or marked according to customer specifications

- Particularly suitable for temporary marking
- The labels adhere well and reliably, and can be removed easily and residue-free if required
- The labels cannot be reused following removal
- Marking service: Phoenix Contact can custom-mark all EML-RM ... markers according to your requirements
- **Designation example:**  
**EML-RM (8x8)R**  
Lettering field size: 8 x 8 mm  
Type of packaging: roll

**Notes:**  
If large rolls are processed with the THERMOMARK ROLL, the external THERMOMARK ROLL-ERH media hub must be used.  
EML-RM...RL-T cannot be marked with the THERMOMARK S1.1.

General data	
Can be marked using	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Description	Color
<b>Labels, removable</b>	
4000 labels per roll	white
4000 labels per roll	white
4000 labels per roll	white
4000 labels per roll	white
4000 labels per roll	white
2500 labels per roll	white
2500 labels per roll	white
2500 labels per roll	white
2500 labels per roll	white
2500 labels per roll	white
2500 labels per roll	white
2500 labels per roll	white
1000 labels per roll	white
1000 labels per roll	white
<b>Labels, on large roll, removable</b>	
1000 labels per roll	white
1000 labels per roll	white
1000 labels per roll	white
1000 labels per roll	white
1000 labels per roll	white
1000 labels per roll	white
1000 labels per roll	white
1000 labels per roll	white
1000 labels per roll	white
1000 labels per roll	white
1000 labels per roll	white
1000 labels per roll	white
1000 labels per roll	white
1000 labels per roll	white

Technical data	
THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1	
Polyester	
-40 ... 120	
DIN EN 61010-1 (VDE 0411-1)	
Free from silicone and halogen	

Ordering data			
Type	Order No.	Pcs. / Pkt.	
EML-RM (8X8)R	0830528	1	
EML-RM (15X6)R	0830529	1	
EML-RM (15X15)R	0830530	1	
EML-RM (20X7)R	0830531	1	
EML-RM (24X4)R	0830532	1	
EML-RM (25X8)R	0830533	1	
EML-RM (25,4X12,7)R	0830534	1	
EML-RM (32X10)R	0830535	1	
EML-RM (35X6,5)R	0830536	1	
EML-RM (40X15)R	0830537	1	
EML-RM (45X5)R	0830538	1	
EML-RM (50X10)R	0830539	1	
EML-RM (70X50)R	0803186	1	
EML-RM (8X8)RL-T	0830540	1	
EML-RM (15X6)RL-T	0830541	1	
EML-RM (15X15)RL-T	0830542	1	
EML-RM (20X7)RL-T	0830543	1	
EML-RM (24X4)RL-T	0830544	1	
EML-RM (25X8)RL-T	0830545	1	
EML-RM (25,4X12,7)RL-T	0830546	1	
EML-RM (32X10)RL-T	0830547	1	
EML-RM (35X6,5)RL-T	0830548	1	
EML-RM (40X15)RL-T	0830549	1	
EML-RM (45X5)RL-T	0830550	1	
EML-RM (50X10)RL-T	0830551	1	

<b>Ink ribbon, length: 300 m, width: 110 mm</b>	black
---	-------

Accessories		
THERMOMARK-RIBBON 110	5145384	1



## Device marking

### Stick-on device marking, with anti-tamper protection



- Tamper-proof label, can be used as a rating plate or seal, for example
- When peeled off, part of the metallic layer comes away, leaving behind a triangular pattern on both the label and the surface
- The safety function is reliable up to 80°C
- Marking service: Phoenix Contact can custom-mark all EMLS ... markers in accordance with your requirements
- The EMLS ... materials are UL-listed
- **Designation example: EMLS (15x9)R SR**
- Lettering field size: 15 x 9 mm
- Type of packaging: roll

Can be marked using:



Thermal transfer for rolls

PRINTED  
FOR YOU



Unmarked or marked according to customer specifications



### Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.2  
Polyester  
Temperature range -40 ... 150 [°C]  
DIN EN 61010-1 (VDE 0411-1)  
Free from silicone and halogen

### Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
<b>Safety labels</b>				
2500 labels per roll	silver	EMLS (15X9)R SR	0800347	1
2500 labels per roll	silver	EMLS (19X6)R SR	0800343	1
1000 labels per roll	silver	EMLS (20X20)R SR	0800344	1
1000 labels per roll	silver	EMLS (26,5X12)R SR	0800353	1
1000 labels per roll	silver	EMLS (38,1X19)R SR	0800354	1
1000 labels per roll	silver	EMLS (40X8)R SR	0800348	1
1000 labels per roll	silver	EMLS (40X15)R SR	0800345	1
500 labels per roll	silver	EMLS (60X30)R SR	0800355	1
500 labels per roll	silver	EMLS (70X32)R SR	0800346	1
100 labels per roll	silver	EMLS (70X150)R SR	0800351	1
250 labels p. roll	silver	EMLS (76X51)R SR	0800350	1
250 labels p. roll	silver	EMLS (85X32)R SR	0800356	1

new

**Device marking for rotary switches from Phoenix Contact, for sticking on or snapping in**



- EML-RS for marking rotary switches from Phoenix Contact
- For either sticking on or snapping in with transparent EMPPR (45,8x45,8) cover
- Additional protection under extreme ambient conditions with the transparent EMPPR (45,8x45,8) cover

PRINTED FOR YOU



**Unmarked or marked according to customer specifications**

**Technical data**

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.2  
 Polyester  
 -40 ... 150  
 DIN EN 61010-1 (VDE 0411-1)  
 Free from silicone and halogen

**Ordering data**

Type	Order No.	Pcs. / Pkt.
EML-RS (45,7X45,7)R	0803387	1
EML-RS (45,7X45,7)R SR	0803187	1

**Accessories**

EMPPR (45,8X45,8)	0803389	25
-------------------	---------	----

**General data**

Can be marked using

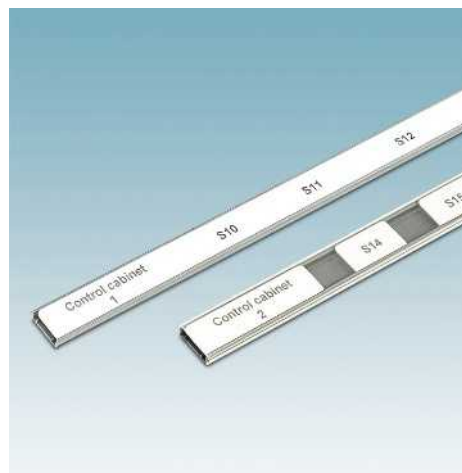
Material  
 Temperature range [°C]  
 Wipe resistance  
 Components

Description	Color
Label, roll, unmarked, can be marked with: THERMOMARK ROLL, THERMOMARK X, THERMOMARK S1.1, mounting type: adhered/inserted, 250 labels p. roll	white silver

**Snap-in shock protection**, for RS20-... rotary switches, transparent

**Notes:**

For corresponding CARRIER-EMP... carrier profiles, see phoenixcontact.net/products



- The EMT marking range includes markers for all products with tall and flat marker grooves
- Marking service: Phoenix Contact can custom-mark all EMT markers according to your requirements

PRINTED FOR YOU



**Unmarked or marked according to customer specifications**

**Technical data**

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1  
 PVC  
 -30 ... 80  
 DIN EN 61010-1 (VDE 0411-1)  
 Free from silicone and halogen

**Ordering data**

Type	Order No.	Pcs. / Pkt.
EMT (EX15)R	0830671	1

**General data**

Can be marked using

Material  
 Temperature range [°C]  
 Wipe resistance  
 Components

Description	Color
Insert strips, unprinted, 1 roll = 50 m, continuous, strip height: 15 mm	white

## Device marking

### Snap-in device makers for Axioline systems from Phoenix Contact



Can be marked using:



Thermal transfer for rolls



Unmarked or marked according to customer specifications

- EMT ... insert strips are available in different sizes for marking the Axioline modules from Phoenix Contact
- EMT (62...)R insert strips are available in different sizes for marking the Inline modules from Phoenix Contact
- Can be printed using all the thermal transfer printers available from Phoenix Contact
- Precise printing quality
- An overview of the devices that support marking can be found starting on page 292

#### General data

Can be marked using

Material  
Temperature range  
Wipe resistance  
Components

[°C]

#### Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2  
Polyester  
-40 ... 120  
DIN EN 61010-1 (VDE 0411-1)  
Free from silicone and halogen

#### Ordering data

Description	Color
<b>Insert strips for Axioline modules</b>	
500 labels per roll, lettering field size: 35 x 28 mm	white
500 labels per roll, lettering field size: 35 x 28 mm	yellow
500 labels per roll, lettering field size: 35 x 46 mm	white
500 labels per roll, lettering field size: 35 x 46 mm	yellow
<b>Insert strips for Inline modules, 500 labels per roll, lettering field size: 62 x 10 mm</b>	
500 labels per roll, lettering field size: 62 x 10 mm	white
500 labels per roll, lettering field size: 62 x 10 mm	yellow
250 labels per roll, lettering field size: 62 x 46 mm	white
250 labels per roll, lettering field size: 62 x 46 mm	yellow

Type	Order No.	Pcs. / Pkt.
EMT (35X28)R	0801602	1
EMT (35X28)R YE	0801603	1
EMT (35X46)R	0801604	1
EMT (35X46)R YE	0801605	1
EMT (62X10)R	0800057	1
EMT (62X10)R YE	0800477	1
EMT (62X46)R	0800059	1
EMT (62X46)R YE	0800478	1



**Device markers for Siemens ET 200SP controllers**

- EMT ... insert strips are available for marking Siemens controllers
- Can be printed using all the thermal transfer printers available from Phoenix Contact
- Precise printing quality
- An overview of the devices that support marking can be found starting on page 292

Can be marked using:



Thermal transfer for rolls



Unmarked or marked according to customer specifications

**Notes:**  
For additional information on the use of Siemens devices, see the product area on our website at phoenixcontact.net/products.

General data	
Can be marked using	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data	
THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2	
Polyester	
-40 ... 120	
DIN EN 61010-1 (VDE 0411-1)	
Free from silicone and halogen	

Description	Color
<b>Insert strips</b>	
500 labels per roll, lettering field size: 31 x 12.5 mm	white
500 labels per roll, lettering field size: 31 x 12.5 mm	yellow
500 labels per roll, lettering field size: 31 x 12.5 mm	gray
500 labels per roll, lettering field size: 50 x 26 mm	white
500 labels per roll, lettering field size: 50 x 26 mm	turquoise
500 labels per roll, lettering field size: 50 x 26 mm	yellow
500 labels per roll, lettering field size: 103 x 17 mm	white
500 labels per roll, lettering field size: 103 x 17 mm	turquoise
500 labels per roll, lettering field size: 103 x 17 mm	yellow
500 labels per roll, lettering field size: 103 x 23 mm	white
500 labels per roll, lettering field size: 103 x 23 mm	yellow
500 labels per roll, lettering field size: 103 x 23 mm	turquoise
1 roll = 30 m, lettering field size: continuous x 14 mm	white
1 roll = 30 m, lettering field size: continuous x 14 mm	turquoise
1 roll = 30 m, lettering field size: continuous x 14 mm	yellow
500 labels per roll, lettering field size: 23 x 109 mm	white
500 labels per roll, lettering field size: 23 x 109 mm	turquoise
500 labels per roll, lettering field size: 23 x 109 mm	yellow
500 labels per roll, lettering field size: 23 x 109 mm	gray
<b>Insert strips with two lettering field sizes per roll, with 250 of each size measuring:</b>	
50 x 12.8 mm and 27.5 x 12.8 mm	white
with 250 each of 50 x 12.8 mm and 27.5 x 12.8 mm	yellow
with 250 each of 50 x 12.8 mm and 27.5 x 12.8 mm	turquoise
with 250 each of 50 x 12.8 mm and 27.5 x 12.8 mm	red

Ordering data		
Type	Order No.	Pcs. / Pkt.
EMT (31X12,5)R	0800008	1
EMT (31X12,5)R YE	0802764	1
EMT (31X12,5)R GY	0801612	1
EMT (50X26)R	0800052	1
EMT (50X26)R TQ	0800053	1
EMT (50X26)R YE	0800054	1
EMT (103X17)R	0800039	1
EMT (103X17)R TQ	0800041	1
EMT (103X17)R YE	0800436	1
EMT (103X23)R	0800040	1
EMT (103X23)R YE	0800437	1
EMT (103X23)R TQ	0800042	1
EMT (EX14)R	0803461	1
EMT (EX14)R TQ	0803462	1
EMT (EX14)R YE	0803463	1
EMT (23X109)R	0803457	1
EMT (23X109)R TQ	0803458	1
EMT (23X109)R YE	0803459	1
EMT (23X109)R GY	0803460	1
EMT (50/28X13)R	0800049	1
EMT (50/28X13)R YE	0800438	1
EMT (50/28X13)R TQ	0800050	1
EMT (50/28X13)R RD	0832082	1

## Device marking

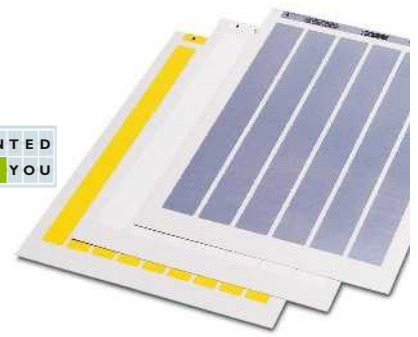
### Stick-on device marking

Can be marked using:



Office laser printing

PRINTED  
FOR YOU



Unmarked or marked according to customer specifications

- These labels have been specially developed for laser printers
- Can be printed on all commercially available laser printers
- The unperforated SK U ... sheets are available for custom label designs
- Marking service: Phoenix Contact can custom-mark all BMKL ... markers in accordance with your requirements

**Notes:**  
Print image may vary depending on laser printer

General data	
Can be marked using	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data	
- • Office printing systems	
Polyester	
-20 ... 80	
DIN EN 61010-1 (VDE 0411-1)	
Silicone-free	

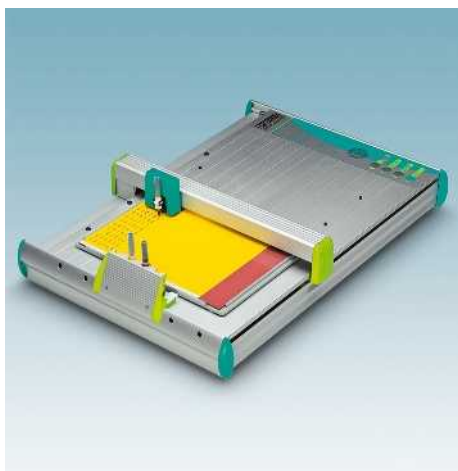
Ordering data	
Description	Color
<b>Sheet of labels for laser printer, DIN A4</b>	
1 sheet = 273 labels	white
1 sheet = 290 labels	white
1 sheet = 396 labels	white
1 sheet = 288 labels	white
1 sheet = 224 labels	white
1 sheet = 224 labels	white
1 sheet = 147 labels	white
1 sheet = 228 labels	white
1 sheet = 63 labels	white
1 sheet = 45 labels	white
1 sheet = 21 labels	white
1 sheet = 290 labels	yellow
1 sheet = 405 labels	yellow
1 sheet = 288 labels	yellow
1 sheet = 168 labels	yellow
1 sheet = 224 labels	yellow
1 sheet = 162 labels	yellow
1 sheet = 45 labels	yellow
1 sheet = 192 labels	silver
1 sheet = 126 labels	silver
1 sheet = 84 labels	silver
1 sheet = 54 labels	silver
1 sheet = 360 labels	orange
<b>Marking sheet, unperforated, self-adhesive, DIN A4 format</b>	
	white
	yellow
	silver

Type	Order No.	Pcs. / Pkt.
BMKL 12X12 WH	5032361	10
BMKL 15X 9 WH	0803663	10
BMKL 18X 6 WH	5032293	10
BMKL 18X 8 WH	5032329	10
BMKL 20X 8 WH	5032280	10
BMKL 25X 8 WH	5032332	10
BMKL 25X12 WH	5032374	10
BMKL 26,8X6,8 WH	0807106	10
BMKL 50X12 WH	5032387	10
BMKL 64X16 WH	0821807	2
BMKL 64X34 WH	5032400	10
BMKL 15X 9 YE	5032497	10
BMKL 16X 6 YE	0807096	10
BMKL 18X 8 YE	5032170	10
BMKL 19X11 YE	0800705	10
BMKL 20X 8 YE	5032138	10
BMKL 26X10 YE	0811516	10
BMKL 64X16 YE	0821810	2
BMKL 27X 8 SR	0803702	10
BMKL 27X12,5 SR	0803676	10
BMKL 27X18 SR	0803689	10
BMKL 27X27 SR	0803692	10
BMKL 18X 6,5 OG	5036147	10
SK U WH:UNGESTANZT	0800129	10
SK U YE:UNGESTANZT	0800132	10
SK U SR:UNGESTANZT	0800145	10



Stick-on device marking

Can be marked using:



Plotter



Unmarked or marked according to customer specifications

- Self-adhesive labels for marking by hand or with a plotter
- Secure adhesion even on curved or uneven surfaces as well as at corners
- Available in various dimensions
- Marking service: Phoenix Contact can custom-mark all BMK ... markers in accordance with your requirements

General data	
Can be marked using	
Material	
Temperature range	[°C]
Components	

Technical data	
CMS-P1-PLOTTER	
Polyester foil	
-40 ... 80	
Silicone-free	

Description	Color
<b>Label sheet</b>	
1 sheet = 270 labels	white
1 sheet = 324 labels	yellow
1 sheet = 198 labels	yellow
1 sheet = 270 labels	yellow
1 sheet = 88 labels	yellow

Ordering data			
Type	Order No.	Pcs. / Pkt.	
BMK 20X 8 WH	0805470	10	
BMK 15X 9 YE	5031605	10	
BMK 19X11 YE	5031582	10	
BMK 20X 8 YE	5031388	10	
BMK 38X11 YE	5031676	10	

Accessories	
Magazine for accommodating sheet material, self-adhesive mat for fixing labels, foils and paper, size of sheet max. DIN A4	

CMS-P1-PAD	5144819	1
------------	---------	---

## Device marking

Stick-on device marking, can be engraved or marked with writing



- The label sheet is made up of prefabricated, individual self-adhesive labels
- The adhesive foil used ensures good adhesive properties, even on uneven surfaces
- Can be easily marked using the CMS-P1-PLOTTER
- Can be engraved using the P1 ENGRAVING UNIT
- Two-layer material
- Marking service: Phoenix Contact can custom-mark all GPE ... markers in accordance with your requirements

### Notes:

Matching magazines to accommodate the label sheets, see page 44.

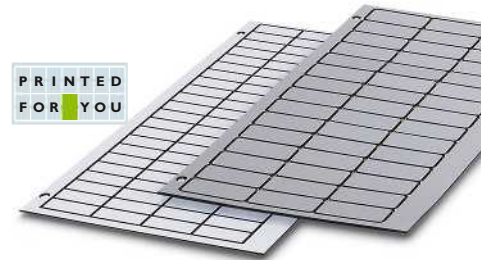
Can be marked using:



Engraving



Plotter



Unmarked or marked according to customer specifications

### General data

Can be marked using	
Material	
Temperature range	[-20 ... 85] [°C]
Wipe resistance	
Components	

### Technical data

P1 ENGRAVING UNIT • CMS-P1-PLOTTER
TRANSPLY-ABS
-20 ... 85
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

### Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
<b>Plastic label sheet</b> , self-adhesive double-layer plastic labels, material thickness: 0.8 mm, square corners				
1 sheet = 120 labels	white	GPE 13X 9 WH	0806932	10
1 sheet = 75 labels	white	GPE 17,5X12 WH	0806916	10
1 sheet = 100 labels	white	GPE 20X 7 WH	0806990	10
1 sheet = 88 labels	white	GPE 20X 8 WH	0806945	10
1 sheet = 60 labels	white	GPE 22X12 WH	0806929	10
1 sheet = 9 labels	white	GPE 52X26 WH	0806958	10
1 sheet = 9 labels	white	GPE 60X30 WH	0806961	10
1 sheet = 21 labels	red/white	GPE 60X12 RD-WH	0824202	10
1 sheet = 5 labels	yellow	GPE 70X32 YE	0824215	10
1 sheet = 30 labels	silver	GPE 28X17,5 SR	0807889	10
<b>Plastic label sheet</b> , self-adhesive double-layer plastic labels, material thickness: 0.8 mm, with rounded corners, radius: 2 mm				
1 sheet = 66 labels	white	GPE 27X 8 WH/R	0815198	10
1 sheet = 30 labels	white	GPE 27X18 WH/R	0815208	10
1 sheet = 26 labels	white	GPE 45X14 WH/R	0815282	10
1 sheet = 21 labels	white	GPE 60X12 WH/R	0807630	10
1 sheet = 9 labels	white	GPE 60X30 WH/R	0815292	10
1 sheet = 32 labels	silver	GPE 22X22 SR/R	0806628	10
1 sheet = 66 labels	silver	GPE 27X 8 SR/R	0806877	10
1 sheet = 42 labels	silver	GPE 27X12,5 SR/R	0806880	10
1 sheet = 30 labels	silver	GPE 27X18 SR/R	0806893	10
1 sheet = 18 labels	silver	GPE 27X27 SR/R	0806903	10
1 sheet = 26 labels	silver	GPE 45X14 SR/R	0807009	10
1 sheet = 21 labels	silver	GPE 60X12 SR/R	0806631	10



Stick-on device marking, can be engraved or marked with writing

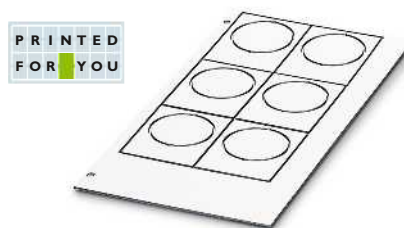
Can be marked using:



Engraving



Plotter



Unmarked or marked according to customer specifications

- High level of resistance to chemical and mechanical effects
- High-quality appearance
- Can be easily marked using the CMS-P1-PLOTTER
- Can be engraved using the P1 ENGRAVING UNIT
- For marking components, devices, and buttons
- Marking service: Phoenix Contact can custom-mark all EMLP ... markers in accordance with your requirements

General data	
Can be marked using	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data	
P1 ENGRAVING UNIT • CMS-P1-PLOTTER	
TRANSPLY-ABS	
-20 ... 85	
DIN EN 61010-1 (VDE 0411-1)	
Free from silicone and halogen	

Description	Color
<b>Plastic label sheet</b> , with a hole for 24-mm-Ø pushbutton, self-adhesive double-layer plastic labels, material thickness: 0.8 mm	
1 sheet = 6 labels	white
1 sheet = 6 labels	black
1 sheet = 6 labels	silver
<b>Plastic label sheet</b> , with a hole for 32-mm-Ø pushbutton, self-adhesive double-layer plastic labels, material thickness: 0.8 mm	
1 sheet = 6 labels	white
1 sheet = 6 labels	black
1 sheet = 6 labels	silver

Ordering data			
Type	Order No.	Pcs. / Pkt.	
EMLP 24 (30X12)	0822301	1	
EMLP 24 (30X12) BK	0822314	1	
EMLP 24 (30X12) SR	0822330	1	
EMLP 32 (38X14)	0822291	1	
EMLP 32 (38X14) BK	0822327	1	
EMLP 32 (38X14) SR	0822343	1	

Accessories	
Magazine, to hold 1 GPE label sheet	

Accessories		
Type	Order No.	Pcs. / Pkt.
CMS-P1-M/GPE ENGRAVING	5145711	1

# Marking and labeling - MARKING system

## Device marking

### Marker carrier



- The CARRIER-EMP ... marker carriers are used in conjunction with the UC-EMP ... / US-EMP ... and EMP-AL ... snap-in labels
- They are used to clearly identify devices and control cabinets
- They can be assembled using screws or rivets



For snap-in labels

#### General data

Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Components	

PA
V2
-40 ... 105
Free from silicone and halogen

#### Technical data

#### Ordering data

Description	Color
Marker carrier, for UC-EMP ... / US-EMP ... / EMP-AL ... snap-in labels	
Marker size: 17 x 15 mm	black
Marker size: 27 x 15 mm	black
Marker size: 49 x 15 mm	black
Marker size: 60 x 15 mm	black
Marker size: 60 x 30 mm	black
Marker size: 85 x 54 mm	black

Type	Order No.	Pcs. / Pkt.
CARRIER-EMP (17X15)	0827450	80
CARRIER-EMP (27X15)	0827451	80
CARRIER-EMP (49X15)	0827452	40
CARRIER-EMP (60X15)	0827453	40
CARRIER-EMP (60X30)	0827454	30
CARRIER-EMP (85,6X54)	0829365	10

### Marker carriers, can be marked using snap-in markers for control devices



- Snap-in UC-/US-EMP ... and EMP-AL ... labels are available for marking CARRIER-EMP 22 ... marker carriers
- Can be used for all buttons and switches with 22 mm diameter



For buttons and switches 22 mm in diameter

#### General data

Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Components	

PA
V2
-40 ... 105
Free from silicone and halogen

#### Technical data

#### Ordering data

Description	Color
Marker carrier, for UC-EM ... / US-EMP ... / EMP-AL ... snap-in labels	
Marker size: 27 x 8 mm	black
Marker size: 27 x 12.5 mm	black
Marker size: 27 x 15 mm	black
Marker size: 27 x 18 mm	black
Marker size: 27 x 27 mm	black

Type	Order No.	Pcs. / Pkt.
CARRIER-EMP 22 (27X8)	0827445	50
CARRIER-EMP 22 (27X12,5)	0827446	50
CARRIER-EMP 22 (27X15)	0827447	50
CARRIER-EMP 22 (27X18)	0827448	50
CARRIER-EMP 22 (27X27)	0827449	50

Marker carriers, can be marked using control device labels



- Can be used for all buttons and switches with 22 mm diameter
- The large marking areas on the CARRIER-EMLP can be custom-marked with EML ... thermal transfer labels and UC-EMLP ... / US-EMLP ... and EMLP-AL ... labels
- EMLPR ... transparent adhesive protective foil can be used for additional protection of the label surfaces



For buttons and switches 22 mm in diameter

General data	
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 105 [°C]
Components	Free from silicone and halogen
Button diameter	22 [mm]

Technical data

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
<b>Marker carrier</b> , for buttons and switches with a 22 mm diameter, can be marked with self-adhesive labels EML ..., UC-EMLP ... / US-EMLP ... and EMLP-AL ...				
Marker size: 27 x 8 mm	black	CARRIER-EMLP 22 (27X8)	0828984	50
Marker size: 27 x 12.5 mm	black	CARRIER-EMLP 22 (27X12,5)	0828985	50
Marker size: 27 x 15 mm	black	CARRIER-EMLP 22 (27X15)	0828986	50
Marker size: 27 x 18 mm	black	CARRIER-EMLP 22 (27X18)	0828987	50
Marker size: 27 x 27 mm	black	CARRIER-EMLP 22 (27X27)	0828988	50

Transparent stick-on or snap-in cover



- Stuck or snapped onto marked CARRIER ... to protect the labels
- Extremely thick, yet flexible and transparent shock protection
- High level of mechanical and chemical stability
- Suitable for permanent outdoor use



Shock protection

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
<b>Shock protection foil</b> , designed for sticking into CARRIER-EMLP ...				
51 labels per sheet	transparent	EMLPR (26,5X14,5)	0800546	10
42 labels per sheet	transparent	EMLPR (26,5X17,5)	0800360	10
30 labels per sheet	transparent	EMLPR (26,5X26,5)	0800361	10
14 labels per sheet	transparent	EMLPR (30X40)	0800359	10
6 labels per sheet	transparent	EMLPR (80X42)	0800357	10
4 labels per sheet	transparent	EMLPR (80X60)	0800358	10
9 labels per sheet	transparent	EMLPR (100X30)	0800362	10
<b>Shock protection</b> , designed for snapping into CARRIER-EMP ...				
	transparent	EMPPR (27X15)	0829535	50
	transparent	EMPPR (27X18)	0829536	50

# Marking and labeling - MARKING system

## Device marking

### Marking profiles

- Self-adhesive marker carriers, available by the meter for shortening to meet individual requirements
- Powerful adhesion and optimum grip on standard device surfaces
- The P-SS-ZB 100 is particularly suitable for accommodating SS-ZB, UC-EM (20X9), UCT-EM (20X9)
- The P-ZB METER can accommodate marking material for the tall and flat marker grooves found on Phoenix Contact modular terminal blocks



For self-adhesion

General data	
Material	PVC
Inflammability class according to UL 94	V0
Temperature range	-15 ... 80 [°C]

### Technical data

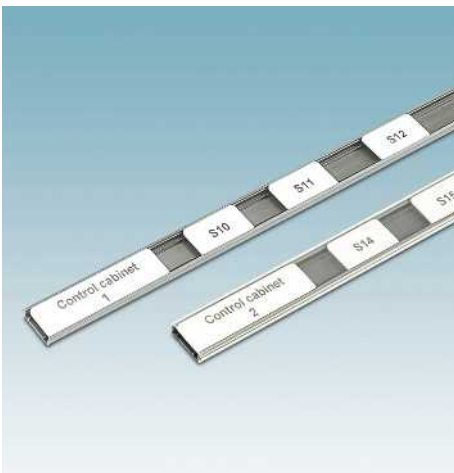
Material	PVC
Inflammability class according to UL 94	V0
Temperature range	-15 ... 80 [°C]

Description	Color
<b>Profile</b> , self-adhesive, for accommodating SS-ZB labels, UC-EM (20X9), UCT-EM (20X9), length: 1000 mm	gray
<b>Profile</b> , self-adhesive, designed to accommodate UC-TM ..., UCT-TM ..., ZB ..., length: 1 m	gray

### Ordering data

Type	Order No.	Pcs. / Pkt.
P-SS-ZB 100	1013737	10
P-ZB METER	1051854	1

## Marking profiles



- The CARRIER-EMP ... marker carriers can be individually equipped with UC-EMP ... / US-EMP ... / EMT ... and EMP-AL ... device markers
- For marking devices
- For marking assemblies
- For marking control and switchgear



Designed to be stuck on or for screwing/riveting

General data	
Material	PVC
Inflammability class according to UL 94	V2
Temperature range	-40 ... 105 [°C]
Components	Free from silicone and halogen

### Technical data

Material	PVC
Inflammability class according to UL 94	V2
Temperature range	-40 ... 105 [°C]
Components	Free from silicone and halogen

Description	Color
<b>Profile</b> , for screwing or riveting, 1000 mm long, for accommodating UC-... / US-... / EMT ... and EMP-AL material with a height of 15 mm	gray transparent
<b>Profile</b> , self-adhesive, 1000 mm long, for accommodating UC-... / US-... / EMT ... and EMP-AL ... material with a height of 15 mm	gray transparent
<b>CARRIER cover</b> , 1000 mm long	transparent

### Ordering data

Type	Order No.	Pcs. / Pkt.
CARRIER-EMP (1000X15) GY	0829366	25
CARRIER-EMP (1000X15) TR	0829530	25
CARRIER/L-EMP (1000X15) GY	0829559	25
CARRIER/L-EMP (1000X15) TR	0829560	25
CARRIER-EMP (1000X15) COVER	0829520	25



Marker carrier



For insert strips

- Self-adhesive marker carriers for marking devices and components
- Powerful adhesion and optimum grip on standard device surfaces
- These carrier materials can be fitted, e.g., with UC-WMT ..., US-WMT ..., EMT ..., and UCT-WMT

General data	
Material	PVC
Inflammability class according to UL 94	V0
Temperature range	-40 ... 60 [°C]
Components	Silicone-free

Technical data

Material	PVC
Inflammability class according to UL 94	V0
Temperature range	-40 ... 60 [°C]
Components	Silicone-free

Description	Color
-------------	-------

Ordering data

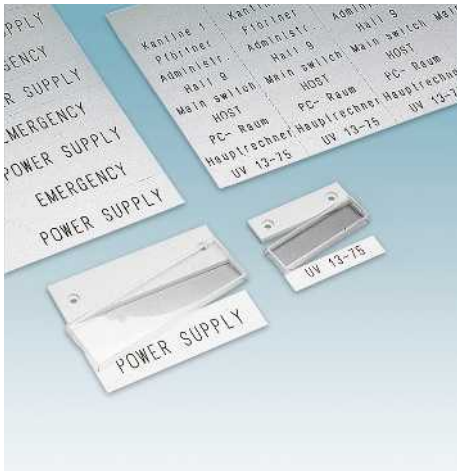
<b>Component marking label</b> , self-adhesive, can be marked with UC-WMT ..., US-WMT ..., EMT ..., and UCT-WMT	
Lettering field size: 15 x 4 mm	transparent
Lettering field size: 30 x 4 mm	transparent
<b>UniCard</b> , with insert strips for PATG and PATO marking collars, for lettering field size 15 x 4 mm, 32-section, 8 individual labels per strip	
	white
	yellow
	white
	yellow
<b>UniCard</b> , with insert strips for PATG and PATO marking collars, with lettering field size 15 x 4 mm, 50-section	
	white
	yellow
	white
	yellow

Type	Order No.	Pcs. / Pkt.
<b>PAB-SK 15</b>	<b>1013287</b>	500
<b>PAB-SK 30</b>	<b>1013290</b>	200
<b>UC-WMT (15X4)</b>	<b>0819398</b>	10
<b>UC-WMT (15X4) YE</b>	<b>0819408</b>	10
<b>UC-WMT (30X4)</b>	<b>0819437</b>	10
<b>UC-WMT (30X4) YE</b>	<b>0819440</b>	10
<b>UCT-WMT (15X4)</b>	<b>0801446</b>	10
<b>UCT-WMT (15X4) YE</b>	<b>0801447</b>	10
<b>UCT-WMT (30X4)</b>	<b>0801422</b>	10
<b>UCT-WMT (30X4) YE</b>	<b>0801423</b>	10

## Device marking

### Marker carriers with cover

Can be marked using:



Plotter



For screw or rivet fixing

- Control cabinet markers consisting of a transparent cap and a base carrier
- The base carrier features two fixing holes so that it can be screwed on
- Once marked, the insert label is inserted in the cap and this is then snapped onto the base carrier
- The marking is protected against external influences
- The ES-SSMK ... insert strips can be marked using the CMS-P1-PLOTTER and the CMS-P1-PAD magazine

General data	
Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Components	
Drill hole spacing	[mm]
Hole diameter	[mm]

Technical data	
CMS-P1-PLOTTER	
PC	
V2	
-40 ... 115	
Free from silicone and halogen	
40	
3.5	

Description	Color
<b>Control cabinet marker</b> , two mounting holes M3	
Size: 60 x 18 mm, lettering field: 56 x 14 mm, incl. 1 x ES-SSMK-GB 60X18	transparent/white
Size: 96 x 30 mm, lettering field: 92 x 26 mm, incl. 1 x ES-SSMK-GB 90X30	transparent/white

Ordering data		
Type	Order No.	Pcs. / Pkt.
SSMK 60X18	5032439	50
SSMK 96X30	5032442	50

Large format sheet insert strips, can be marked with plotter, DIN A4, perforated, material: Cardboard	
1 sheet = 75 strips, marking field: 56 x 14 mm	transparent/white
1 sheet = 22 strips, marking field: 92 x 26 mm	transparent/white

Accessories		
Type	Order No.	Pcs. / Pkt.
ES-SSMK-GB 60X18	5032468	10
ES-SSMK-GB 96X30	5032455	10



Transparent stick-on cover



Shock protection

- Extremely thick, but flexible and transparent label made from halogen-free PU
- Stuck over labels or markers that have been marked to protect them
- High level of mechanical and chemical stability
- Suitable for permanent outdoor use

General data	
Material	Polyester foil
Components	Halogen-free

Technical data		
Polyester foil		
Halogen-free		

Ordering data	
Description	Color
<b>Shock protection foil</b> , designed for sticking into CARRIER-EMLP ...	
51 labels per sheet	transparent
42 labels per sheet	transparent
30 labels per sheet	transparent
14 labels per sheet	transparent
6 labels per sheet	transparent
4 labels per sheet	transparent
9 labels per sheet	transparent

Ordering data		
Type	Order No.	Pcs. / Pkt.
EMLPR (26,5X14,5)	0800546	10
EMLPR (26,5X17,5)	0800360	10
EMLPR (26,5X26,5)	0800361	10
EMLPR (30X40)	0800359	10
EMLPR (80X42)	0800357	10
EMLPR (80X60)	0800358	10
EMLPR (100X30)	0800362	10

## Device marking

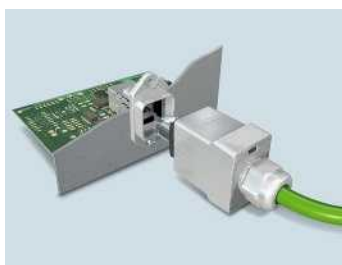
### Device marking for Phoenix Contact



	UC-TM 6	UCT-TM 6	UC-TMF 6	UC-TMF 12	UCT-TMF 6	UCT-TMF 12	UC-EM (17,5X9)	UC-EM (20X9)	UC-EMP (20X9)	US-EMP (20X9)	UCT-EM (17,5X9)	UCT-EM (20X9)	ZB 5, ZB 6, ZB 15
--	---------	----------	----------	-----------	-----------	------------	----------------	--------------	---------------	---------------	-----------------	---------------	-------------------

#### Catalog 7: interface technology and switching devices

INTERFACE Relay PLC power terminal Order No. 2966508													
INTERFACE Relay PLC-B..., PLC-O..., PLC-R...													
DEK-REL... relay terminal block													
DEK-OE... special relays													
DEK-TR... inverter module													
COMPACT-LINE UM 45...													
PROCESS INTERFACE PI-EX...													
RIFLINE complete													



	UC-TM 5 UCT-TM 5	UC1U-TM 5	UC-TM 6 UCT-TM 6	UC-TMF 8 UCT-TMF 8	UC-TMF 10 UCT-TMF 10	UC-TMF 16 UCT-TMF 16	UC-WMT (23X4) US-WMT (23X4)	UC-EM (17,5X9)	UC-EM (20X7)	UC-EMP (20X9) US-EMP (20X9)	UCT-EM (17,5X9)	UCT-EM (20X7)	UCT-EM (20X9)
--	---------------------	-----------	---------------------	-----------------------	-------------------------	-------------------------	--------------------------------	----------------	--------------	--------------------------------	-----------------	---------------	---------------

#### Catalog 4: sensor/actuator cabling and industrial plug-in connectors

SACB with M8 slots													
SACB with M12 slots													
SACB with M5 slots													
SACB-SPEEDCON distributor boxes with M12 slots and metal threads													
SACB-SPEEDCON distributor boxes with M12 slots and plug-in screw connection													
Distributor boxes with QUICKON slots													
Sensor/actuator cabling accessories													
PSR-SACB sensor box with M12 slots													
VS-SCRJ..., VS-IL-2X... data plug-in connectors													
ASI CC DIST... AS-Interface distributor													
VS-SI... front plate													
HC-M... modular contact insert													
HEAVYCON HC-B...A... heavy-duty plug-in connectors													
HEAVYCON HC-D...A... heavy-duty plug-in connectors													



	UC-TM 6	UCT-TM 6	UC-TMF 5	UC-TMF 18	UCT-TMF 5	UCT-TMF 18

**Catalog 6: surge protection and power supply units**

FLASHTRAB compact PLUS lightning arrester										
FLASHTRAB PLUS lightning arrester										
FLASHTRAB compact lightning arrester										
VALVETRAB compact surge arrester										
VALVETRAB MS surge arrester										
MAINS-PLUGTRAB device protection										
PLUGTRAB with function monitoring PT-IQ										
PLUGTRAB PT... plug-in surge protection cascade										
Modular terminal blocks with TT... surge protection elements										



	UC-TM 6	UCT-TM 6	UC-TMF 6	UC-TMF 8	UC-TMF 12	UCT-TMF 6	UCT-TMF 8	UCT-TMF 12	UCT-EM (7X10)	EMT (35X18,7)	EMT (35X28)	EMT (35X46)

**Catalog 8: control technology, I/O systems, automation infrastructure**

Inline												
INTERBUS ST...												
Fieldline... M8												
Fieldline... M12												
Axioline F series												
Axioline E series												

# Marking and labeling - MARKING system

## Device marking

### Device marking for devices from other manufacturers



ABB	UC-EM (17,5X7,5)	UC-EM (17,5X8)	UCT-EM (17X9)	UCT-EM (17,5X7,5)	UCT-EM (17,5X8)	UCT-EM (17X8)	UCT-EM (20X9)
Miniature circuit breaker S 221..., S 223..., S 281..., S 284...	■			■			
Residual current device F271..., F172...				■			
Switch, button, indicator light E 221..., E 222..., E 223...	■			■			
Switch, button, indicator light E 225..., E 226..., E 227...	■			■			
Power dimmer STD...	■			■			
Power supply unit NTL5...	■			■			
Power consumption meter RS 232...	■			■			
Installation contactors ESB..., EN...	■			■			
Miniature circuit breakers LE1..., LE3..., LP1-3..., LPUC 1/2, LP1NA..., LP3NA...	■			■			
Residual current devices F..., FIP..., FIK..., FI-LP..., FIS...	■			■			
FI signal generator FISG...	■			■			
Load switch IS...	■			■			
Surge arrester SA 4...	■			■			
Logic modules	■			■			
Logic and extension module LM..., DO..., DX...		■			■		
Miniature circuit breaker			■				
Switch contacts A9, A12, A16, A26, A30, A40, A50, A63, A75, A95, A110, A145, A185, A210, A260, A300, AF400, AF460, AF580, AF750						■	
Mini contacts B6, B7						■	
SZ-KZS							■

Allen Bradley	UC-EM (17,5X7,5)	UC-EM (17,5X8)	UCT-EM (17X9)	UCT-EM (17,5X7,5)	UCT-EM (17,5X8)	UCT-EM (17X8)	UCT-EM (20X9)
100-C09Z*10, 100-F A22, 100-F A40				■			
Motor starter 140M x				■			

	UCT-EM (10X5)	UCT-EM (12X7)	UC1-TMF 5 UCT1-TMF 5
<b>Beckhoff</b>			
BK 3010, BK 3110			
BC 2000, BC 3100, BC 4000			
BC 9000, BC 9050			
Field distributor IE 3112-2-00			
IL 2301-B310			
SAI distributor (sensor/actuator interface)			

	UCT-EM (12X3,3)	UCT-EM (12X6)
<b>Bernecke + Rainer</b>		
X20 system		

	UCT-EM (10X8)
<b>Bosch/Rexroth</b>	
Bosch/distributor	

## Device marking

### Device marking for devices from other manufacturers



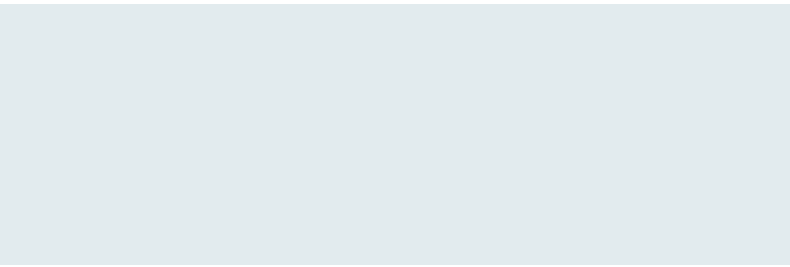
#### CONTA-CLIP

- PRSU
- CP V4, optocoupler, AOP
- PGSV, PSP

UCT-EM (5X10)

UCT-EM (6X10)

UC-EM (20X9)  
UCT-EM (20X9)



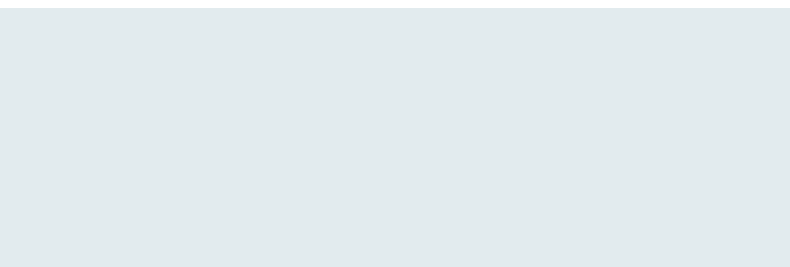
#### ESCHA

- Distributor block MB
- Distributor block FK/FKS
- M12 distributor
- Distributor block 8MB

UCT-EM (10X5)

UCT-EM (20X8)

UC-EM (20X9)  
UCT-EM (20X9)



#### FESTO

- Compact Performance
- CPA10/EV1
- CP-E16 valve island
- CP-E16-KL-CL
- Electronics CP-16-M
- IBS 6x10
- MPV-E/A08-M8, MPV-E/A08-M12, MPV-E/A12-M8
- CPV pneumatics
- IBS 9/17
- IBS 10/17
- MT
- Valve island IBS 9/20
- CPV18-V1 valves

UCT-EM (6X10)

UCT-EM (17X9)

UCT-EM (17X10)

UC-EM (20X9)  
UCT-EM (20X9)



			UCT-EM (6X10)		UCT-EM (17X9)
<b>Finder</b>					
Variclip (relay retaining bracket)					
Variclip 020.24					
Sockets with screw and spring-cage terminal block, 93 series					

				UC-EM (20X7) UCT-EM (20X7)		UC-EM (20X9) UCT-EM (20X9)		UC-TM 6 UCT-TM 6		UC-TM 5 UCT-TM 5
<b>HARTING</b>										
Front plate Han - Port										
Plug-in connector Han - Snap										
Connection distributor Han - E AV										
Connection distributor Han - D AV										

<b>ifm-electronic</b>																						
AC 20 xx classic module/universal M																						
AC 24 80/81 CompactLine																						
AC 5210 AS-i module																						
AV 52xx ClassicLine																						
AC 225 SmartLine																						
ClassicLine distribution module AC52...																						
Active AS-i module AC2480																						
AC 50 xx module bases																						
Active AS-i module AC225...																						
Compact module AC 24 xx																						

## Device marking

### Device marking for devices from other manufacturers



#### Lumberg

	UC-EM (10X8)	UC-EM (17,5X7,5)	UC-EM (19X9)	UC-EM (20X9)	UCT-EM (10X5)	UCT-EM (10X8)	UCT-EM (17,5X7,5)	UCT-EM (20X9)
INTERBUS remote bus terminal block								
PROFIBUS DP..								
CANopen® device CSL...								
DeviceNet™ device DSL...								
AS-Interface module								
Ethernet switch EEC...								
Sensor/actuator distributor ASB								
Valve adapter VAD...								
Valve adapter VBD...								
I/O module UEM...								
PROFIBUS DP PSL 7...								
AS-Interface module ASL 501								
AS-Interface ABAS/UTAS								
Terminal strip SBS4/LED-3								
Distributors E2C and SB8								
AS-Interface IBA, IBI, IBP								
ASB 2-VC-1A, ASB 8								
ASBM 12/LED 3, ASBSM 4/LED 3								
PROFIBUS 0970-PSL-651								

	UC-EM (17,5X8)	UC-EM (20X9)	UCT-EM (17,5X8)	UCT-EM (20X9)
<b>Moeller</b>				
Function relay DILET 11..., DILET 70..., EMR 4...				
Basic device and extension module EASY 2..., EASY 5..., EASY 6..., EASY 7..., EASY 200...				
Relay ZE..., ZEV...				
Contactors DILER, DILEM				

	UC-EM (17,5X9)	UC-EM (20X9)	UC-EM (21X8)	UCT-EM (5X10)	UCT-EM (10X5)	UCT-EM (17X9)	UCT-EM (17,5X8)	UCT-EM (17,5X9)	UCT-EM (17X8)	UCT-EM (20X8)	UCT-EM (20X9)	UCT-EM (21X8)
<b>MURR ELEKTRONIK</b>												
ASI IO SL DIO 8/4/4												
M8 distributors												
MSUD valve plug combination												
AS-i bus module MVK8												
MVPS8 sensor/actuator box												
B6 mini contact												
Initiator holder												
M12 Y cable												
Plastic M12 distributor systems												
MERINO												
Merio M12 8-way distributor 27106												
MVK12 AS-i bus module												
MVM8 Order No. 276658												
MVP 12 distributor: 4-way 27114												
MVP 12 distributor: 6-way 27115												
MVP 12 distributor: 8-way 27116												
MVP 12 AS-i module distributor 27773 to 27778												
Cube 67												
MASI												
MICO 4.6												
MVP 12 distributor: 4-way 27530, MVP 12 distributor: 8-way 27535												
MVK MP DI 08, DI 8 PROFIBUS												
AMMS/AMMDS												
AMZS/AMZSW, Order No. 276397												
AS/S01/DIL/RC-BUG2												
Cube 67 BN-P, KM 5, Logic distributor 8-way M12, Order No. 276247												
M12 distributor, MAW/MDW, MBM bus modules IP20, MBV series												
MIS system wiring, MKS/MKSxxx, MPOT, MSUD valve connection technology												
MSVD/MSDO, MSVS, MUFW/ME...W/MIB												
MVK-I bus module Order No. ME 553300												
NEF mains interference suppression filter, RMM/RMME, UFL/UG-SB/UGS/SV/LUGS/PKB												
Valve plug type A, B, Bl, C, Cl, distributor MVB 8V												

## Device marking

### Device marking for devices from other manufacturers



#### Pepperl & Fuchs

G6 compact modules

ASI VAA-2E-64SN (pneumatic module VAA)

AS-i bus module, G6 compact module, IPG-64-B7

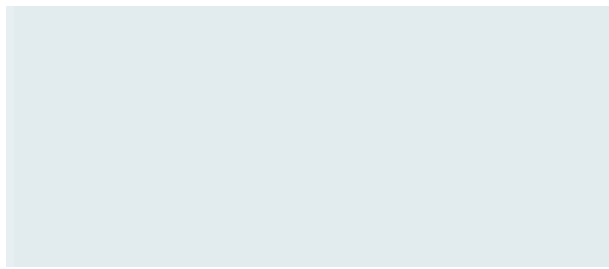
VAS 2A-K 12 U, WA-4E-62-ZE

UC-EM (20X9)

UCT-EM (10X5)

UCT-EM (10X8)

UCT-EM (20X9)



#### Schneider Electric

Standard contactors GC 1610, 1611, 1620, 2502, 2510, 2511, 2520

Preselection contactors GY 1611, 1620, 2511, 2520

TeSys D series, D control relay, K, K control relay

TeSys model U

Standard contactors GC 1622, 1630, 1640, 2504, 2522, 2530, 2540

Standard contactors 4002, 4004, 4011, 4020, 4022, 4030, 4040, 6302, 6304, 6311, 6320, 6322, 6330, 6340, 10020, 10040

Preselection contactors GY 1640, 2530, 2540, 4020, 4030, 4040, 6320, 6330, 6340

Motor adjustment combination TeSys LD1...

Motor adjustment combination HL contactors LD 4...

Motor output/reversing combination LD5...

UC-EM (18X8)

UC-EM (21X8)

UCT-EM (17X8)

UCT-EM (18X8)

UCT-EM (21X8)

	UC-EM (10X7)	UC-EM (10X8)	UC-EM (20X7)	UC-EM (20X9)	EMT (50/28X13)R...	EMT (50X26)R...	EMT (EX14)R...	EMT (23X109)R...	EMT (31X12,5)R...	EMT (103X17)R...	EMT (103X23)R...	UCT-EM (10X7)	UCT-EM (10X8)	UCT-EM (15X10)	UCT-EM (20X7)	UCT-EM (20X9)	
<b>Siemens</b>																	
AS-i slaves I/O module K45.../K60...																	
ASi-safe module K45.../K60..., mounting plate K45/K60																	
AS-i slaves SlimLine S22.5.../S45...																	
AS-i slaves counter module, ground fault detection module																	
AS-i slaves surge protection module																	
AS-i repeater, 4-way distributor, round cable distributor																	
AS-i compact module K20...																	
Contactors, auxiliary contactors, contactor combination, auxiliary switch block																	
Auxiliary switch blocks 3RH 1921...																	
EMC interference suppr. module																	
Solid-state relay, solid-state contactor, special function module																	
Circuit breaker, el. overload relay, therm. overload relay																	
Soft starter, direct starter																	
Motor management and control devices, timer relays, monitoring relays, safety relays																	
ET 200S																	
ET 200SP																	
S7-300																	
S7-400																	
S7-1500																	
Bus module ET 200X, contact block, Signum button series, 3SB3 button, switching element 3SB14...																	
Motor circuit breaker																	
End block 8WA1 808																	

## Device marking

### Device marking for devices from other manufacturers



Telemecanique	UC-EM (18X8)	UC-EM (21X8)	UCT-EM (18X8)	UCT-EM (21X8)
Standard contactor GC 1610, 1611, 1620, 2502	■		■	
Standard contactor GC 1622, 1630, 1640, 2504		■		■
Standard contactor GC 2510, 2511, 2520	■		■	
Standard contactor GC 2522, 2530, 2540		■		■
Standard contactor GC 4002, 4004, 4011, 4020, 4022, 4030, 4040		■		■
Standard contactor GC 6302, 6304, 6311, 6320, 6322, 6330, 6340		■		■
Standard contactor GC 10020, 10040		■		■
Preselection contactor GY 1611, 1620	■		■	
Preselection contactor GY 1640		■		■
Preselection contactor GY 2511, 2520	■		■	
Preselection contactor GY 2530, 2540		■		■
Preselection contactor GY 4020, 4030, 4040		■		■
Preselection contactor GY 6320, 6330, 6340		■		■
Motor output combination TeSys LD1...		■		■
Motor output combination HL contactors LD4...		■		■
Motor output combination/reversing combination LD5...		■		■

<b>Turck</b>									
PLC distributor SDPB-0404D-006, SDPL-0404D-1003, SAI distributor									
JTBS-46SC									
8MB12-xxx, FLDP-IM-8, PDP-M81 / I16T									

<b>Wago</b>									
Miniature circuit breaker									
I/O modules									

<b>Weidmüller</b>													
M8 distributor systems													
M5 distributor systems													
Actuator/sensor interface													
Actuator/sensor interface line													
M12 distributor systems													
M12 metal distributor systems													
SAI distributor													

## Device marking

### Marker carriers from Phoenix Contact



	UC-EMP (27X8) US-EMP (27X8) US-EMLP (27X8) EML (26,5X7,5)R SR EMLP (27X8)R SR	UC-EMP (27X12,5) US-EMP (27X12,5) US-EMLP (27X12,5) EML (26,5X12)R SR EMLP (27X12,5)R SR	UC-EMP (27X15) US-EMP (27X15) US-EMLP (27X15) EMP-AL (27x15) EMLP-AL (27x15)	UC-EMP (27X18) US-EMP (27X18) US-EMLP (27X18) EML (26,5X17,5)R... EMLP (27X18)R SR EMP-AL (27x18) EMLP-AL (27x18)	UC-EMP (27X27) US-EMP (27X27) US-EMLP (27X27) EML (26,5X26,5)R SR EMLP (27X27)R SR
<b>Phoenix Contact</b>					
CARRIER-EMP 22 (27 x 8)					
CARRIER-EMP 22 (27 x 12,5)					
CARRIER-EMP 22 (27 x 15)					
CARRIER-EMP 22 (27 x 18)					
CARRIER-EMP 22 (27 x 27)					
CARRIER-EMLP 22 (27 x 8)					
CARRIER-EMLP 22 (27 x 12,5)					
CARRIER-EMLP 22 (27 x 15)					
CARRIER-EMLP 22 (27 x 18)					
CARRIER-EMLP 22 (27 x 27)					

	UC-EMP (17X15) US-EMP (17X15)	UC-EMP (27X15) US-EMP (27X15) EMP-AL (27x15) EMLP-AL (27x15)	UC-EMP (49X15) US-EMP (49X15) EMP-AL (49x15)	UC-EMP (60X15) US-EMP (60X15) EMP-AL (60x15)	UC-EMP (60X30) US-EMP (60X30) EMP-AL (60x30)	US-EMP (85,6X54) EMP-AL (85,6x54)
<b>Phoenix Contact</b>						
CARRIER-EMP (17 x 15)						
CARRIER-EMP (27 x 15)						
CARRIER-EMP (49 x 15)						
CARRIER-EMP (60 x 15)						
CARRIER-EMP (60 x 30)						
CARRIER-EMP (85,6 x 54)						
CARRIER-EMP (1000 x 15)						
CARRIER-EMP (1000 x 15) TR						
CARRIER/L-EMP (1000 x 15)						
CARRIER/L-EMP (1000 x 15) TR						



Marker carriers from other manufacturers



	UC-EMP (17X15) US-EMP (17X15)	UC-EMLP (22x22)	UC-EMP (27X8) US-EMP (27X8)	UC-EMP (27X12,5) US-EMP (27X12,5)	UC-EMP (27X15) US-EMP (27X15)	UC-EMP (27X18) US-EMP (27X18)	UC-EMP (27X27) US-EMP (27X27)	UC-EMP (49X15) US-EMP (49X15)	UC-EMP (60X15) US-EMP (60X15)	UC-EMP (60X30) US-EMP (60X30)
<b>ABB</b>										
MA6-1060										
BSH-A										
BSH-B										
<b>CONTA-CLIP</b>										
GSU-H 17 x 15										
GSU-H 27 x 15										
GSU-H 49 x 15										
GSU-H 60 x 15										
GSU-H 60 x 30										
<b>Grafoplast</b>										
SIT 0A06...										
SIT 0A07...										
SIT 0B05...										
SIT 0B07...										
SIT 0B08...										
SIT 0B09...										
<b>Moeller</b>										
M22S-ST-X										
<b>Murrplastik</b>										
BT 22,5										
BTK 22,5										
BT Harmony ZB4										
BT 15/27										
BT 15/49										
<b>Siemens</b>										
3SB3922-0AY										
3SB3925-0AV										
3SB1906-2AA										
3SB1906-2AW										
Empty housing 3SB38...										
<b>Weidmüller</b>										
SM-H 27/12,5										
SM-H 27/18										
SM-H 27/27										
CC-H 15/17										
CC-H 15/27										
CC-H 15/49										
CC-H 30/60										



# System marking - MARKING system

Clear and extensive marking of systems not only guarantees safety but is also a legal requirement. Safety and information signs provide important information and help to improve operational processes.

Phoenix Contact provides numerous marking labels for system marking. From warning labels to multicolored symbol signs, the extremely diverse product range covers all applications. We offer a range of printing systems for marking.

HF and UHF handheld devices and matching markers with transponder/tag are also available. With the RFMARK RFID system, data can be received, transmitted, and scanned on a contact-free basis and without visual contact.

## Product range overview

<b>System marking</b>	<b>308</b>
<b>RFMARK RFID system</b>	<b>310</b>
<b>PMLP... and PMP... system marking</b>	
Unmarked system marking with transponder, UniCard material	312
UC-PMLP... and UC-PMP... system marking	314
System marking accessories	316
<b>PML-W... warning labels</b>	
Unmarked warning labels, UniSheet material	320
Unmarked warning labels, supplied in rolls	321
Preprinted warning labels	322
<b>PML-P... prohibition signs</b>	
Unmarked prohibition signs, UniSheet material	326
Unmarked prohibition signs, supplied in rolls	327
Preprinted prohibition signs	328
<b>PML-M... mandatory signs</b>	
Unmarked mandatory signs, UniSheet material	334
Unmarked mandatory signs, supplied in rolls	335
Preprinted mandatory signs	336
<b>PML-T... pipeline signs</b>	
Unmarked pipeline signs, supplied in rolls	342
<b>PML-GHS... hazardous substances labels</b>	
Unmarked hazardous substances labels, UniSheet material	348
Unmarked hazardous substances labels, supplied in rolls	349
Preprinted hazardous substances labels	350
<b>US-EMLF... combi labels</b>	
Unmarked combi labels, UniSheet material	354
<b>PMM... magnetic labels</b>	
Unmarked magnetic labels, supplied in rolls	355

## System marking



Unambiguous marking of systems helps to avoid operating errors and is therefore a key component of occupational safety. Information and safety signs also provide important information on site, making it easier to maintain systems.

Phoenix Contact provides a wide range of labels which meet the legal requirements for correct system marking. Depending on the type, they can be marked using the THERMOMARK LINE thermal transfer printers. The markers are characterized by a high level of wipe and scratch resistance.

The RFMARK-RFID system provides all the advantages of system marking using radio frequency identification handheld devices. The corresponding markers with transponder/tag can be marked with the BLUEMARK.

Please contact us if you are unable to find a suitable size or color for your application from the options available in our product range. It goes without saying that Phoenix Contact also provides a comprehensive marking service for system marking applications. Test us out!



**PML-W warning labels**

Warning labels are used to identify danger areas in systems and workshops. The unmarked warning labels allow you to create custom warning instructions.



**PML-P prohibition signs**

Prohibition signs prohibit potentially dangerous activities. They are therefore a key component of occupational health and safety.



**PML-M mandatory signs**

Mandatory signs prescribe a certain mode of behavior and are used to prevent accidents in the workplace.



**PML-T pipeline signs**

Pipeline markers are used to indicate fluids or gases. By removing the arrowhead that is not required, the direction of flow can also be defined.



**PML-GHS hazardous substances labels**

Hazardous substances labels are used for the additional marking of the pipeline markers if hazardous substances according to the Ordinance on Hazardous Substances (GefStoffV) are transported through the pipelines.



**PMM magnetic labels**

Magnetic labels provide a flexible solution if you do not wish to apply permanent marking. If required, they can be quickly attached to metallic surfaces and removed just as easily.

## System marking

### RFMARK RFID system



#### RFMARK high-frequency handheld

RFMARK HF is a powerful handheld device for contact-free reading and writing of HF transponders. The RFMARK HF can identify and locate HF transponders. Data can be received, transmitted, and scanned on a contact-free basis and without visual contact.



#### RFMARK ultra-high frequency handheld

The RFMARK UHF is a powerful handheld device which is equipped with a crossed dipole antenna. This allows UHF transponders to be written and read regardless of their position. Bulk detection of 150 transponders per second is also possible.



#### Advantages and accessories

- Advantages of the RFMARK readers:
- Easy operation via touch screen
  - Low power consumption and long battery life
  - 1D laser scanner and 2D imager

#### Matching accessories

You can make optimum use of the RFMARK readers and ensure they are as user-friendly as possible with our reader accessories.



#### Radio-frequency identification, RFID

Used for contact-free identification, data exchange, and localization of transponders/tags without visual contact. With the aid of an RFID handheld device, which acts as a transmitter and receiver, data is transmitted to and received from a transponder/tag by electromagnetic waves (UHF) or a magnetic field (HF).

Dimensions	
	[mm]
<b>General data</b>	
Degree of protection	
Temperature range	[°C]
Weight	[kg]
Frequency	[MHz]
Read/write format	[m]
Memory	
Display	

Description	
<b>Handheld, high-frequency range</b>	
Range up to 0.1 m, depending on the environment	
<b>Handheld, ultra-high frequency range</b>	
Range up to 2.0 m, depending on the environment	

<b>Charging and data exchange station</b> , with replacement battery, connection for USB 2.0 and Ethernet, charger,
For RFMARK HF, with power supply unit and power cable (EU/UK)
for RFMARK UHF, with power supply unit and power cable (EU/UK/US/CN)
<b>Replacement battery</b> ,
For RFMARK HF, Li-ion 7.4 V, 2.6 Ah
For RFMARK UHF, Li-ion 3.7 V, 2.26 Ah
<b>Protective bag</b> , with strap, protection against splash water, touch screen operation not possible for RFMARK HF
<b>Belt pouch</b> , touch screen can be operated, for RFMARK HF
For RFMARK UHF
<b>Read and write USB stick</b> ,
Crossed dipole antenna, range: 1 m



Handheld, high-frequency (HF)



Handheld, ultra-high frequency (UHF)

Technical data		
Width	Length	Height
90	250	45
IP54		
-20 ... 55		
0.55		
13.56		
max. 0.1		
256 MB DDR RAM		
3.5" color touch screen		

Technical data		
Width	Length	Height
60	147	39
IP54		
-20 ... 55		
0.235		
868		
max. 2		
256 MB DDR RAM		
2.2" color touch screen		

Ordering data		
Type	Order No.	Pcs. / Pkt.
RFMARK HF	5148010	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
RFMARK UHF	5148011	1

Accessories		
Type	Order No.	Pcs. / Pkt.
RFMARK HF POWER LINK STATION	5148013	1
RFMARK HF/ACCU	5148015	1
RFMARK HF PROTECTION CASE	5148017	1
RFMARK HF/BELTPOUCH	5148018	1

Accessories		
Type	Order No.	Pcs. / Pkt.
RFMARK UHF POWER LINK STATION	5148014	1
RFMARK UHF/ACCU	5148016	1
RFMARK UHF/BELTPOUCH	5148021	1
RFMARK UHF FD	5148012	1

## System marking

### Stick-on system marking with RFID transponder

Can be marked using:



UV LED technology



Self-adhesive label with integrated RFID transponder

### Markers

- The PMLP-RFID ... marking range includes self-adhesive markers for system marking, pre-mounted in a frame, with good adhesive properties
- The markers are integrated in a uniform matrix and can be printed quickly and easily with the BLUEMARK CLED
- The format automatically ensures printing with a high level of positional accuracy
- The wide temperature range means that the labels can be used both indoors and outdoors

### Inlays

- The HF transponder inlays comply with ISO 15693 and ISO 18000-3 mode 1
- The UHF transponder inlays comply with EPC Class 1 Gen 2 and ISO 18000-6C

#### General data

Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

#### Technical data

BLUEMARK CLED
PVC/PC
-
-25 ... 80
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and cadmium

#### Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
<b>Self-adhesive plastic label</b> , in a frame, with integrated HF transponder				
1-section, lettering field size: 90 x 38 mm, reading performance: max. 0.1 m, depending on the environment	white	<b>PMLP-RFID/HF (90X38)</b>	<b>0830956</b>	10
1-section, lettering field size: 110 x 38 mm, reading performance: 0.1 m, depending on the environment	white	<b>PMLP-RFID/HF (110X38)</b>	<b>0831030</b>	10
<b>UniCard</b> , self-adhesive plastic label, with integrated UHF transponder				
1-section, lettering field size: 90 x 38 mm, reading performance: max. 2.0 m, depending on the environment	white	<b>PMLP-RFID/UHF (90X38)</b>	<b>0830957</b>	10
1-section, lettering field size: 110 x 38 mm, reading performance: 2.0 m, depending on the environment	white	<b>PMLP-RFID/UHF (110X38)</b>	<b>0831031</b>	10





**System marking for inserting into marker carriers, with RFID transponder**

Can be marked using:



UV LED technology



Label with integrated RFID transponder

**Markers**

- The PMP-RFID ... marking range includes markers for system marking, pre-mounted in a frame, specially designed to fit into existing CARRIER-PMP (108/110x38) marker carriers
- The markers are integrated in a uniform matrix and can be printed quickly and easily with the BLUEMARK CLED
- The format automatically ensures printing with a high level of positional accuracy
- The wide temperature range means that the labels can be used both indoors and outdoors
- The CARRIER-PM(L)P ... can be equipped with colored PMST markers according to DIN 2403

**Inlays**

- The HF transponder inlays comply with ISO 15693 and ISO 18000-3 mode 1
- The UHF transponder inlays comply with EPC Class 1 Gen 2 and ISO 18000-6C

**General data**

Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

**Technical data**

BLUEMARK CLED
PVC/PC
V0
-25 ... 80
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and cadmium

Description	Color
<b>Plastic label, in a frame, with integrated HF transponder</b>	
1-section, lettering field size: 90 x 38 mm, reading performance: max. 0.1 m, depending on the environment	white
1-section, lettering field size: 110 x 38 mm, reading performance: 0.1 m, depending on the environment	white
<b>UniCard, plastic label with integrated UHF transponder</b>	
1-section, lettering field size: 90 x 38 mm, reading performance: max. 2.0 m, depending on the environment	white
1-section, lettering field size: 90 x 38 mm, reading performance: max. 2.0 m, depending on the environment	orange
1-section, lettering field size: 110 x 38 mm, reading performance: 2.0 m, depending on the environment	white

**Ordering data**

Type	Order No.	Pcs. / Pkt.
<b>PMP-RFID/HF (90X38)</b>	<b>0830954</b>	10
<b>PMP-RFID/HF (110X38)</b>	<b>0831028</b>	10
<b>PMP-RFID/UHF (90X38)</b>	<b>0830955</b>	10
<b>PMP-RFID/UHF (90X38) OG</b>	<b>0803048</b>	10
<b>PMP-RFID/UHF (110X38)</b>	<b>0831029</b>	10

## System marking

### System marking for sticking on or inserting into marker carriers



- The UniCard UC-PMLP ... marking range includes self-adhesive markers for system marking, with good adhesive properties
- The UniCard UC-PMP ... marking range includes markers for system marking, specially designed to fit into existing CARRIER-PM(L)P... marker carriers
- The format automatically ensures printing with a high level of positional accuracy
- The wide temperature range means that the labels can be used both indoors and outdoors
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements
- The CARRIER-PM(L)P ... can be equipped with colored PMST markers according to DIN 2403

Can be marked using:



UV LED technology



Unmarked or marked according to customer specifications

#### General data

Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

#### Technical data

BLUEMARK CLED
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Description	Color
<b>UniCard</b> , with self-adhesive plastic label, 1-section, lettering field size: 90 x 38 mm Lettering field size: 110 x 38 mm	white white
<b>UniCard</b> , plastic label, 1-section lettering field size: 90 x 38 mm lettering field size: 90 x 38 mm	white
Lettering field size: 110 x 38 mm	white

#### Ordering data

Type	Order No.	Pcs. / Pkt.
<b>UC-PMLP (90X38)</b>	<b>0831017</b>	10
<b>UC-PMLP (110X38)</b>	<b>0831020</b>	10



PRINTED  
FOR YOU



Unmarked or marked according to customer specifications

**Technical data**

BLUEMARK CLED  
PA  
V2  
-40 ... 120  
DIN EN 61010-1 (VDE 0411-1)  
Free from silicone and halogen

**Ordering data**

Type	Order No.	Pcs. / Pkt.
UC-PMP (90X38)	0831016	10
UC-PMP (90X38) YE	0831046	10
UC-PMP (90X38) VT	0831047	10
UC-PMP (90X38) BU	0831048	10
UC-PMP (110X38)	0831019	10

## System marking

### Marker carrier for UC-PMP... and PMP-RFID... markers



- CARRIER PMP (108x38) is a flexible marker carrier for the UC-PMP... and PMP-RFID... labels with a width of 90 mm
- The PMST markers for media marking according to DIN 2403 are designed specifically for the CARRIER-PMP (108x38)
- The RVT-PA 3,5 BK fixing rivet is suitable for fixing the PMST markers in the different CARRIER-PM(L)P ...
- The CARRIER-PMP can be attached to pipes using the SCRT ... hose clamp or the WT ... cable binder

#### Notes:

1) RVT-PA...BK rivet for fixing PMST ... marker strips to the CARRIER-PMP ...



For mounting with screws, screw clamps, or cable binders

#### General data

Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 105 [°C]
Wipe resistance	-
Components	Free from silicone and halogen

#### Technical data

Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 105 [°C]
Wipe resistance	-
Components	Free from silicone and halogen

#### Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
<b>Marker carrier</b> , for UC-PMP... and PMP-RFID... labels that can be inserted Carrier size: 108 x 38 mm	black	<b>CARRIER-PMP (108X38)</b>	<b>0830958</b>	10
<b>Marking label for conveyed fluids</b> , for equipping CARRIER-PMP ... according to DIN 2403	white yellow orange red violet green gray brown blue black			
<b>Plastic body-bound rivet</b> , 3,5 mm diameter <sup>1)</sup>				
<b>Mounting strip</b> , can be screwed, for CARRIER-PMP ...				



For attachment to the CARRIER-PMP (108x38) using rivets



Rivet for attaching the PMST markers



Screw clamp for attachment to pipes

Technical data
PVC
V0
-30 ... 80
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Technical data
PVC
-
-30 ... 80
-
-

Technical data
Chromium steel 1.4016
-
-
-
-

Ordering data		
Type	Order No.	Pcs. / Pkt.

Ordering data		
Type	Order No.	Pcs. / Pkt.

Ordering data		
Type	Order No.	Pcs. / Pkt.

PMST (9X38)	0830960	100
PMST (9X38) YE	0830964	100
PMST (9X38) OG	0830966	100
PMST (9X38) RD	0830962	100
PMST (9X38) VT	0830967	100
PMST (9X38) GN	0830961	100
PMST (9X38) GY	0830963	100
PMST (9X38) BN	0830968	100
PMST (9X38) BU	0830969	100
PMST (9X38) BK	0830965	100

RVT-PA 3,5 BK	0830959	100
---------------	---------	-----

SCRT 9X16-27	0830970	50
SCRT 9X25-40	0830971	50
SCRT 9X40-60	0830972	25
SCRT 9X60-80	0830973	25
SCRT 9X80-100	0830974	25
SCRT 9X100-120	0830975	25
SCRT 9X140-160	0830976	25
SCRT 9X160-180	0830977	25
SCRT 9X180-200	0830978	25

## System marking

### Marker carrier for UC-PMP... and PMP-RFID... markers



- The CARRIER-PMP (110x38) is designed for mounting the UC-PMP ... and PMP-RFID ... labels. The carrier features snap-in pins which prevent the labels and the PM(S)T markers from falling out
- The self-adhesive CARRIER/L-PMP-ENCLOSED (110x38) consists of a closed housing and has an adhesive strip on the rear side for direct fixing onto smooth and clean surfaces. For difficult surfaces, it is also possible to fix the carrier with two M5 countersunk screws. The carrier is equipped with detents that prevent the labels and the PM(S)T marker from falling out
- The CARRIER-PMP-ENCLOSED (110x38) consists of a closed housing and is designed for the UC-PMP ... and PMP-RFID ... labels. Mounting takes place by screwing two M5 countersunk screws. The carrier is equipped with detents that prevent the labels and the PM(S)T marker from falling out
- The PMT and PMST (10 x 38) markers for media marking according to DIN 2403 are designed specifically for the CARRIER-PM(L)P... (110x38). These can be inserted quickly and easily into the carriers. The PMST (10x38) label has a hole for additional fixing in the three different carriers ... (110x38) using the RVT-PA 3,5 BK fixing rivet



For mounting with screws, screw clamps or cable binders

#### General data

Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 105 [°C]
Wipe resistance	-
Components	Free from silicone and halogen

#### Technical data

Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 105 [°C]
Wipe resistance	-
Components	Free from silicone and halogen

#### Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
<b>Marker carrier</b> , for UC-PMP... and PMP-RFID labels that can be inserted, carrier size 110 x 38 mm	black	<b>CARRIER-PMP (110X38)</b>	<b>0831056</b>	10
<b>Closed, self-adhesive marker carrier</b> , for UC-PMP... and PMP-RFID labels that can be inserted, carrier size 110 x 38 mm	black			
<b>Closed marker carrier</b> , for UC-PMP... and PMP-RFID labels that can be inserted, carrier size 140 x 68 mm	black			
<b>Marking label</b> for conveyed fluids, for equipping CARRIER-PMP (110x38), CARRIER/L-PMP (110x38), and CARRIER-PMP-ENCLOSED (110x38) according to DIN 2403	white yellow orange red violet green gray brown blue black			
<b>Marking label</b> for conveyed fluids, with centered hole, for additional attachment with a plastic expanding rivet, for equipping CARRIER-PMP (110x38), CARRIER/L-PMP (110x38), and CARRIER-PMP-ENCLOSED (110x38) according to DIN 2403	white yellow orange red violet green gray brown blue black			



For sticking or screwing on



For mounting with screws



Media markers for inserting into carriers

Technical data			Technical data			Technical data		
PA			PA			PVC		
V2			V2			-		
-40 ... 105			-40 ... 105			-30 ... 80		
-			-			DIN EN 61010-1 (VDE 0411-1)		
Free from silicone and halogen			Free from silicone and halogen			Free from silicone and cadmium		
Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
CARRIER/L-PMP-ENCLOSED (110X38)	0831062	10						
			CARRIER-PMP-ENCLOSED (110X38)	0831068	10			
						PMT (10X38)	0831086	100
						PMT (10X38) YE	0831087	100
						PMT (10X38) OG	0831088	100
						PMT (10X38) RD	0831089	100
						PMT (10X38) VT	0831090	100
						PMT (10X38) GN	0831091	100
						PMT (10X38) GY	0831092	100
						PMT (10X38) BN	0831093	100
						PMT (10X38) BU	0831094	100
						PMT (10X38) BK	0831095	100
						PMST (10X38)	0831076	100
						PMST (10X38) YE	0831077	100
						PMST (10X38) OG	0831078	100
						PMST (10X38) RD	0831079	100
						PMST (10X38) VT	0831080	100
						PMST (10X38) GN	0831081	100
						PMST (10X38) GY	0831082	100
						PMST (10X38) BN	0831083	100
						PMST (10X38) BU	0831084	100
						PMST (10X38) BK	0831085	100

## System marking

### UniSheet - stick-on warning labels, unmarked

Can be marked using:



Thermal transfer for sheets and cards

PRINTED  
FOR YOU



Unmarked or marked according to customer specifications

The unmarked US-PML warning labels allow you to create custom warning instructions. A variety of symbols are available in the CLIP PROJECT software. The warning labels offer the following features:

- Highly flexible, plasticized PVC labels which are ideal for uneven surfaces
- Suitable for indoor and outdoor use
- The warning labels conform to the ISO 7010 international standard
- The format automatically ensures printing with a high degree of positioning accuracy
- Marking service: Phoenix Contact can custom-mark all US-PML ... warning labels according to your requirements

#### General data

Can be marked using	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

#### Technical data

THERMOMARK CARD
PVC
-40 ... 90
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Description	Color
<b>UniSheet</b> , with self-adhesive warning labels, triangular	
24-section, side length: 25 mm	yellow
6-section, side length: 50 mm	yellow
1-section, side length: 100 mm	yellow
<b>UniSheet</b> , with self-adhesive warning labels, triangular with additional rectangular lettering field	
16-section, side length: 25 mm	yellow
4-section, side length: 50 mm	yellow
1-section, side length: 100 mm	yellow

#### Ordering data

Type	Order No.	Pcs. / Pkt.
<b>US-PML-W100 (25X25)</b>	1014125	10
<b>US-PML-W100 (50X50)</b>	1014126	10
<b>US-PML-W100 (100X100)</b>	1014127	10
<b>US-PML-W200 (25X25)</b>	1014131	10
<b>US-PML-W200 (50X50)</b>	1014132	10
<b>US-PML-W200 (100X100)</b>	1014133	10

**Magazine**, for THERMOMARK CARD..., for accommodating all US-materials

**Ink ribbon**, length: 300 m, width: 110 mm

#### Accessories

Accessories	Order No.	Pcs. / Pkt.
<b>THERMOMARK CARD-US-MAG1</b>	5146451	1
<b>THERMOMARK-RIBBON 110-TC</b>	0801371	1



Stick-on warning labels, unmarked

Can be marked using:



Thermal transfer for rolls



Unmarked or marked according to customer specifications

The unmarked PML warning labels allow you to create custom warning instructions. A variety of symbols are available in the CLIP PROJECT software. The warning labels offer the following features:

- Highly flexible, plasticized PVC labels which are ideal for uneven surfaces
- Suitable for indoor and outdoor use
- The special packaging protects rolls that have already been started from the dirt found in industrial environments
- The warning labels conform to the ISO 7010 international standard
- Marking service: Phoenix Contact can custom-mark all PML ... warning labels according to your requirements

General data

Can be marked using

Material

Temperature range

Wipe resistance

Components

[°C]

Technical data

THERMOMARK ROLL • THERMOMARK X1.1 • THERMOMARK X1.2  
 PVC  
 -40 ... 90  
 DIN EN 61010-1 (VDE 0411-1)  
 Silicone-free

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
<b>Warning label</b> , triangular 500 labels per roll, side length: 25 mm	yellow	<b>PML-W100 (25X25)R</b>	0830429	1
500 labels per roll, side length: 50 mm	yellow	<b>PML-W100 (50X50)R</b>	0830430	1
250 labels per roll, side length: 100 mm	yellow	<b>PML-W100 (100X100)R</b>	0830431	1
<b>Warning label</b> , triangular, additional rectangular lettering field				
500 labels per roll, side length: 25 mm	yellow	<b>PML-W200 (25X25)R</b>	0830451	1
500 labels per roll, side length: 50 mm	yellow	<b>PML-W200 (50X50)R</b>	0830452	1
250 labels per roll, side length: 100 mm	yellow	<b>PML-W200 (100X100)R</b>	0830453	1
<b>Warning label</b> , rectangular				
500 labels per roll, width: 52 mm, height: 26 mm	yellow	<b>PML-W300 (52X26)R</b>	0830458	1
500 labels per roll, width: 74 mm, height: 37 mm	yellow	<b>PML-W300 (74X37)R</b>	0830459	1
250 labels per roll, width: 105 mm, height: 52 mm	yellow	<b>PML-W300 (105X52)R</b>	0830460	1

**Ink ribbon**, length: 300 m, width: 110 mm

Accessories

THERMOMARK-RIBBON 110	5145384	1
-----------------------	---------	---

## System marking

### Stick-on warning labels, triangular with lightning flash



The PML warning labels are available with various warning instructions. The warning labels offer the following features:

- Printed cards
- Suitable for indoor and outdoor use
- The warning labels conform to the ISO 7010 international standard

#### General data

Material	
Temperature range	[°C]
Wipe resistance	
Components	

#### Technical data

PVC
-40 ... 90
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

#### Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
<b>Warning label</b> , triangular, with lightning flash 25 labels per sheet, side length: 25 mm	yellow	<b>PML-W101 (25X25)</b>	<b>0830433</b>	5
9 labels per sheet, side length: 50 mm	yellow	<b>PML-W101 (50X50)</b>	<b>0830434</b>	5
9 labels per sheet, side length: 100 mm	yellow	<b>PML-W101 (100X100)</b>	<b>0830435</b>	5
1 label per sheet, side length: 200 mm	yellow	<b>PML-W101 (200X200)</b>	<b>0830436</b>	5

**Stick-on warning labels, triangular with lightning flash and details of voltage**

- Printed cards
- Suitable for indoor and outdoor use
- The warning labels conform to the ISO 7010 international standard



General data		Technical data			Technical data		
Material		PVC			PVC		
Temperature range	[°C]	-40 ... 90			-40 ... 90		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)			DIN EN 61010-1 (VDE 0411-1)		
Components		Silicone-free			Silicone-free		
		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
<b>Warning label</b> , triangular with lightning flash, additional rectangular lettering field, printed text in German/English: "Spannung Voltage"							
16 labels per sheet, side length: 25 mm	yellow	<b>PML-W201 (25X25)</b>	<b>0830454</b>	5			
4 labels per sheet, side length: 50 mm	yellow	<b>PML-W201 (50X50)</b>	<b>0830455</b>	5			
4 labels per sheet, side length: 100 mm	yellow	<b>PML-W201 (100X100)</b>	<b>0830456</b>	5			
1 label per sheet, side length: 200 mm	yellow	<b>PML-W201 (200X200)</b>	<b>0830457</b>	5			
<b>Warning label</b> , triangular, with lightning flash, additional rectangular lettering field, printed text: 230 V							
16 labels per sheet, side length: 25 mm	yellow				<b>PML-W202 (25X25)</b>	<b>0830437</b>	5
4 labels per sheet, side length: 50 mm	yellow				<b>PML-W202 (50X50)</b>	<b>0830438</b>	5
4 labels per sheet, side length: 100 mm	yellow				<b>PML-W202 (100X100)</b>	<b>0830439</b>	5
1 label per sheet, side length: 200 mm	yellow				<b>PML-W202 (200X200)</b>	<b>0830440</b>	5
<b>Warning label</b> , triangular, additional rectangular lettering field, printed items: lightning flash and 400 V							
16 labels per sheet, side length: 25 mm	yellow				<b>PML-W203 (25X25)</b>	<b>0830441</b>	5
4 labels per sheet, side length: 50 mm	yellow				<b>PML-W203 (50X50)</b>	<b>0830442</b>	5
4 labels per sheet, side length: 100 mm	yellow				<b>PML-W203 (100X100)</b>	<b>0830443</b>	5
1 label per sheet, side length: 200 mm	yellow				<b>PML-W203 (200X200)</b>	<b>0830444</b>	5
<b>Warning label</b> , triangular, additional rectangular lettering field, printed items: lightning flash and 120 V							
4 labels per sheet, side length: 50 mm	yellow				<b>PML-W204 (50X50)</b>	<b>0830445</b>	5
4 labels per sheet, side length: 100 mm	yellow				<b>PML-W204 (100X100)</b>	<b>0830446</b>	5
1 label per sheet, side length: 200 mm	yellow				<b>PML-W204 (200X200)</b>	<b>0830447</b>	5
<b>Warning label</b> , triangular, additional rectangular lettering field, printed items: lightning flash and 240 V							
4 labels per sheet, side length: 50 mm	yellow				<b>PML-W205 (50X50)</b>	<b>0830448</b>	5
4 labels per sheet, side length: 100 mm	yellow				<b>PML-W205 (100X100)</b>	<b>0830449</b>	5
1 label per sheet, side length: 200 mm	yellow				<b>PML-W205 (200X200)</b>	<b>0830450</b>	5

## System marking

### Stick-on warning labels, with lightning flash and warning instruction

- Printed cards
- Suitable for indoor and outdoor use



General data		Technical data		
Material		PVC		
Temperature range	[°C]	-40 ... 90		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)		
Components		Silicone-free		
		Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.
<b>Warning label</b> , rectangular, with lightning flash, printed text in German/English: "Danger! High voltage when main switch is off"				
4 labels per sheet, W x H: 52 x 26 mm	yellow	<b>PML-W301 (52X26)</b>	<b>0830461</b>	5
3 labels per sheet, W x H: 74 x 37 mm	yellow	<b>PML-W301 (74X37)</b>	<b>0830462</b>	5
4 labels per sheet, W x H: 105 x 52 mm	yellow	<b>PML-W301 (105X52)</b>	<b>0830463</b>	5
2 labels per sheet, W x H: 200 x 100 mm	yellow	<b>PML-W301 (200X100)</b>	<b>0830464</b>	5
<b>Warning label</b> , rectangular, printed text in German: "Achtung! Vor Öffnen des Gehäuses Netzstecker ziehen!"				
4 labels per sheet, W x H: 52 x 26 mm	yellow			
3 labels per sheet, W x H: 74 x 37 mm	yellow			
4 labels per sheet, W x H: 105 x 52 mm	yellow			
2 labels per sheet, W x H: 200 x 100 mm	yellow			
<b>Warning label</b> , rectangular, with lightning flash, printed text in English: "Caution! Before opening housing, pull main plug!"				
4 labels per sheet, W x H: 52 x 26 mm	yellow			
3 labels per sheet, W x H: 74 x 37 mm	yellow			
4 labels per sheet, W x H: 105 x 52 mm	yellow			
2 labels per sheet, W x H: 200 x 100 mm	yellow			
<b>Warning label</b> , rectangular, printed text in German: "Achtung! Vor Öffnen des Gehäuses Hauptschalter ausschalten!"				
4 labels per sheet, W x H: 52 x 26 mm	yellow			
3 labels per sheet, W x H: 74 x 37 mm	yellow			
4 labels per sheet, W x H: 105 x 52 mm	yellow			
2 labels per sheet, W x H: 200 x 100 mm	yellow			
<b>Warning label</b> , rectangular, with lightning flash, printed text in English: "Caution! Before opening housing, turn off main power switch!"				
4 labels per sheet, W x H: 52 x 26 mm	yellow			
3 labels per sheet, W x H: 74 x 37 mm	yellow			
4 labels per sheet, W x H: 105 x 52 mm	yellow			
2 labels per sheet, W x H: 200 x 100 mm	yellow			



**Technical data**

PVC  
 -40 ... 90  
 DIN EN 61010-1 (VDE 0411-1)  
 Silicone-free

**Ordering data**

Type	Order No.	Pcs. / Pkt.
PML-W302 (52X26)	0830465	5
PML-W302 (74X37)	0830466	5
PML-W302 (105X52)	0830467	5
PML-W302 (200X100)	0830468	5
PML-W303 (52X26)	0830469	5
PML-W303 (74X37)	0830470	5
PML-W303 (105X52)	0830471	5
PML-W303 (200X100)	0830472	5
PML-W304 (52X26)	0830473	5
PML-W304 (74X37)	0830474	5
PML-W304 (105X52)	0830475	5
PML-W304 (200X100)	0830476	5
PML-W305 (52X26)	0830477	5
PML-W305 (74X37)	0830478	5
PML-W305 (105X52)	0830479	5
PML-W305 (200X100)	0830480	5

# Marking and labeling - MARKING system

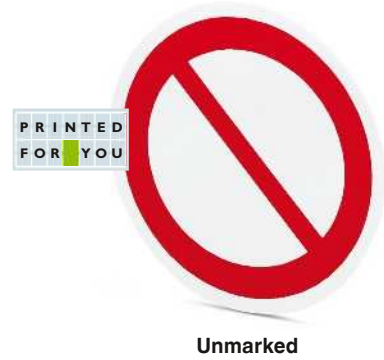
## System marking

### UniSheet - stick-on prohibition signs, color preprinted without symbols



- The color preprinted US PML-P prohibition signs on US cards allow you to create custom prohibition notices
- A variety of symbols are available in the CLIP PROJECT software

**Notes:**  
For accessories, visit [phoenixcontact.net/products](http://phoenixcontact.net/products)



General data	
Can be marked using	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data	
THERMOMARK CARD	
PVC	
-40 ... 90	
DIN EN 61010-1 (VDE 0411-1)	
Silicone-free	

Description	Color
<b>Prohibition sign</b> , color preprinted, without symbols	
4-section, diameter: 50 mm	red/white
1-section, diameter: 100 mm	red/white

Ordering data		
Type	Order No.	Pcs. / Pkt.
<b>US-PML-P100 (D50)</b>	1014217	10
<b>US-PML-P100 (D100)</b>	1014218	10

<b>Magazine</b> , for THERMOMARK CARD..., for accommodating all US-materials
<b>Ink ribbon</b> , length: 300 m, width: 110 mm

Accessories		
Type	Order No.	Pcs. / Pkt.
<b>THERMOMARK CARD-US-MAG1</b>	5146451	1
<b>THERMOMARK-RIBBON 110-TC</b>	0801371	1

Stick-on prohibition signs, color preprinted, without symbols



Unmarked

The color preprinted PML-P prohibition signs on a roll allow you to create custom prohibition notices. A variety of symbols are available in the CLIP PROJECT software. The prohibition signs offer the following features:

- Highly flexible, plasticized PVC labels which are ideal for uneven surfaces
- Suitable for indoor and outdoor use
- The prohibition signs conform to the ISO 7010 international standard
- The format automatically ensures printing with a high level of positional accuracy
- The special packaging protects rolls that have already been started from the dirt found in industrial environments
- Marking service: Phoenix Contact can custom-mark all PML ... markers according to your requirements

General data

Can be marked using	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

THERMOMARK ROLL • THERMOMARK X1.1 • THERMOMARK X1.2
PVC
-40 ... 90
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Description	Color
<b>Prohibition sign, color preprinted, without symbols</b>	
500 labels per roll, diameter: 50 mm	red/white
250 labels per roll, diameter: 100 mm	red/white

Ordering data

Type	Order No.	Pcs. / Pkt.
<b>PML-P100 (D50)R</b>	<b>1014225</b>	<b>1</b>
<b>PML-P100 (D100)R</b>	<b>1014226</b>	<b>1</b>

Ink ribbon, length: 300 m, width: 110 mm

Accessories

<b>THERMOMARK-RIBBON 110</b>	<b>5145384</b>	<b>1</b>
------------------------------	----------------	----------

## System marking

### Stick-on prohibition signs, preprinted with symbols



The PML-P... prohibition signs are available with various symbols. The prohibition signs offer the following features:

- Highly flexible, plasticized PVC labels which are ideal for uneven surfaces
- Suitable for indoor and outdoor use
- The mandatory signs conform to the ISO 7010 international standard



Symbol - No smoking

General data	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data	
PVC	
-40 ... 90	
DIN EN 61010-1 (VDE 0411-1)	
Silicone-free	

Description	Color
<b>Prohibition sign, preprinted with "No smoking" symbol</b>	
3-section, diameter: 50 mm	red/white
3-section, diameter: 100 mm	red/white
1-section, diameter: 200 mm	red/white
<b>Prohibition sign, preprinted with "Do not connect" symbol</b>	
3-section, diameter: 50 mm	red/white
3-section, diameter: 100 mm	red/white
1-section, diameter: 200 mm	red/white
<b>Prohibition sign, preprinted with "Forbidden for persons with pacemakers" symbol</b>	
3-section, diameter: 50 mm	red/white
3-section, diameter: 100 mm	red/white
1-section, diameter: 200 mm	red/white
<b>Prohibition sign, preprinted with "Do not touch" symbol</b>	
3-section, diameter: 50 mm	red/white
3-section, diameter: 100 mm	red/white
1-section, diameter: 200 mm	red/white

Ordering data		
Type	Order No.	Pcs. / Pkt.
<b>PML-P101 (D50)</b>	<b>1014184</b>	5
<b>PML-P101 (D100)</b>	<b>1014185</b>	5
<b>PML-P101 (D200)</b>	<b>1014186</b>	5





Symbol - Do not connect



Symbol - Forbidden for persons with pacemakers



Symbol - Do not touch

Technical data
PVC -40 ... 90 DIN EN 61010-1 (VDE 0411-1) Silicone-free

Technical data
PVC -40 ... 90 DIN EN 61010-1 (VDE 0411-1) Silicone-free

Technical data
PVC -40 ... 90 DIN EN 61010-1 (VDE 0411-1) Silicone-free

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-P102 (D50)	1014187	5
PML-P102 (D100)	1014188	5
PML-P102 (D200)	1014189	5

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-P103 (D50)	1014190	5
PML-P103 (D100)	1014191	5
PML-P103 (D200)	1014192	5

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-P104 (D50)	1014193	5
PML-P104 (D100)	1014194	5
PML-P104 (D200)	1014195	5

## System marking

### Stick-on prohibition signs, preprinted with symbols

- Printed cards
- Highly flexible, plasticized PVC labels which are ideal for uneven surfaces
- Suitable for indoor and outdoor use
- The mandatory signs conform to the ISO 7010 international standard



Symbol - Do not walk here



Symbol - No fire, naked lights or smoking

		Technical data			Technical data		
<b>General data</b>							
Material		PVC			PVC		
Temperature range	[°C]	-40 ... 90			-40 ... 90		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)			DIN EN 61010-1 (VDE 0411-1)		
Components		Silicone-free			Silicone-free		
		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
<b>Prohibition sign, preprinted with "Do not walk here" symbol</b>							
3-section, diameter: 50 mm	red/white	<b>PML-P105 (D50)</b>	<b>1014196</b>	5			
3-section, diameter: 100 mm	red/white	<b>PML-P105 (D100)</b>	<b>1014197</b>	5			
1-section, diameter: 200 mm	red/white	<b>PML-P105 (D200)</b>	<b>1014198</b>	5			
<b>Prohibition sign, preprinted with "No fire, naked lights or smoking" symbol</b>							
3-section, diameter: 50 mm	red/white				<b>PML-P106 (D50)</b>	<b>1014199</b>	5
3-section, diameter: 100 mm	red/white				<b>PML-P106 (D100)</b>	<b>1014200</b>	5
1-section, diameter: 200 mm	red/white				<b>PML-P106 (D200)</b>	<b>1014201</b>	5
<b>Prohibition sign, preprinted with "Do not reach in" symbol</b>							
3-section, diameter: 50 mm	red/white						
3-section, diameter: 100 mm	red/white						
1-section, diameter: 200 mm	red/white						
<b>Prohibition sign, preprinted with "Do not extinguish with water" symbol</b>							
3-section, diameter: 50 mm	red/white						
3-section, diameter: 100 mm	red/white						
1-section, diameter: 200 mm	red/white						
<b>Prohibition sign, preprinted with "No mobile phones" symbol</b>							
3-section, diameter: 50 mm	red/white						
3-section, diameter: 100 mm	red/white						
1-section, diameter: 200 mm	red/white						



Symbol - Do not reach in



Symbol - Do not extinguish with water



Symbol - No mobile phones

Technical data
PVC -40 ... 90 DIN EN 61010-1 (VDE 0411-1) Silicone-free

Technical data
PVC -40 ... 90 DIN EN 61010-1 (VDE 0411-1) Silicone-free

Technical data
PVC -40 ... 90 DIN EN 61010-1 (VDE 0411-1) Silicone-free

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-P107 (D50)	1014202	5
PML-P107 (D100)	1014203	5
PML-P107 (D200)	1014204	5

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-P108 (D50)	1014205	5
PML-P108 (D100)	1014206	5
PML-P108 (D200)	1014207	5

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-P109 (D50)	1014208	5
PML-P109 (D100)	1014209	5
PML-P109 (D200)	1014210	5

## System marking

### Stick-on prohibition signs, preprinted with symbols

- Printed cards
- Highly flexible, plasticized PVC labels which are ideal for uneven surfaces
- Suitable for indoor and outdoor use
- The mandatory signs conform to the ISO 7010 international standard



Symbol - No food

General data		Technical data		
Material		PVC		
Temperature range	[°C]	-40 ... 90		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)		
Components		Silicone-free		
Description		Ordering data		
	Color	Type	Order No.	Pcs. / Pkt.
<b>Prohibition sign, preprinted with "No food" symbol</b>				
3-section, diameter: 50 mm	red/white	<b>PML-P110 (D50)</b>	<b>1014211</b>	5
3-section, diameter: 100 mm	red/white	<b>PML-P110 (D100)</b>	<b>1014212</b>	5
1-section, diameter: 200 mm	red/white	<b>PML-P110 (D200)</b>	<b>1014213</b>	5
<b>Prohibition sign, preprinted with "No access for unauthorized persons" symbol</b>				
3-section, diameter: 50 mm	red/white			
3-section, diameter: 100 mm	red/white			
1-section, diameter: 200 mm	red/white			



Symbol - No access for unauthorized persons

**Technical data**

PVC  
 -40 ... 90  
 DIN EN 61010-1 (VDE 0411-1)  
 Silicone-free

**Ordering data**

Type	Order No.	Pcs. / Pkt.
PML-P111 (D50)	1014214	5
PML-P111 (D100)	1014215	5
PML-P111 (D200)	1014216	5

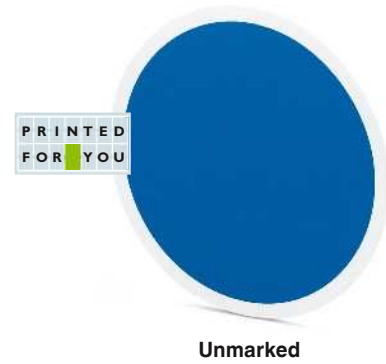
## System marking

### UniSheet - stick-on mandatory signs, color preprinted, without symbols

Can be marked using:



Thermal transfer for sheets and cards



Unmarked

The unmarked US-PML-M mandatory signs on US cards allow you to create custom information signs. A variety of symbols are available in the CLIP PROJECT software. The mandatory signs offer the following features:

- Highly flexible, plasticized PVC labels which are ideal for uneven surfaces
- Suitable for indoor and outdoor use
- The mandatory signs conform to the ISO 7010 international standard
- The markers, which are supplied in uniform sheets, can be printed onto quickly, easily, and cost-effectively using the THERMOMARK CARD
- The format automatically ensures printing with a high level of positional accuracy
- The perforated markers are easy to separate
- Marking service: Phoenix Contact can custom-mark all US-PML ... markers according to your requirements

#### General data

Can be marked using	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

#### Technical data

THERMOMARK CARD
PVC
-40 ... 90
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Description	Color
<b>Mandatory sign</b> , color preprinted, without symbols	
4-section, diameter: 50 mm	blue
1-section, diameter: 100 mm	blue

#### Ordering data

Type	Order No.	Pcs. / Pkt.
<b>US-PML-M100 (D50)</b>	1014176	10
<b>US-PML-M100 (D100)</b>	1014177	10

<b>Magazine</b> , for THERMOMARK CARD..., for accommodating all US-materials	
<b>Ink ribbon</b> , specially for US-PML..., US-EMLF...,	
Length: 240 m, width: 110 mm	white

#### Accessories

<b>THERMOMARK CARD-US-MAG1</b>	5146451	1
<b>TM-RIBBON 110-TC/TR WH</b>	1014402	1

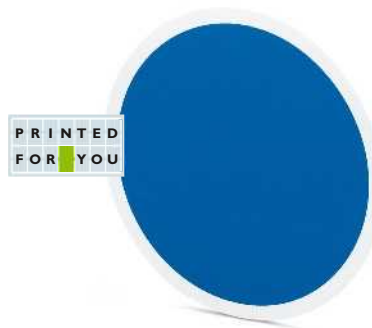
**Stick-on mandatory signs, color preprinted, without symbols**



Can be marked using:



Thermal transfer for rolls



Unmarked

The color preprinted PML-M mandatory signs on a roll allow you to create custom mandatory notices. A variety of symbols are available in the CLIP PROJECT software. The mandatory signs offer the following features:

- Highly flexible, plasticized PVC labels which are ideal for uneven surfaces
- Suitable for indoor and outdoor use
- The mandatory signs conform to the ISO 7010 international standard
- The format automatically ensures printing with a high level of positional accuracy
- The special packaging protects rolls that have already been started from the dirt found in industrial environments
- Marking service: Phoenix Contact can custom-mark all markers according to your requirements

General data	
Can be marked using	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Description	Color
<b>Mandatory sign</b> , color preprinted, without symbols	
500 labels per roll, diameter: 50 mm	blue
250 labels per roll, diameter: 100 mm	blue

Ink ribbon, specially for US-PML..., US-EMLF...,	
Length: 240 m, width: 110 mm	white

Technical data	
THERMOMARK ROLL • THERMOMARK X1.1 • THERMOMARK X1.2	
PVC	
-40 ... 90	
DIN EN 61010-1 (VDE 0411-1)	
Silicone-free	

Ordering data		
Type	Order No.	Pcs. / Pkt.
<b>PML-M100 (D50)R</b>	<b>1014180</b>	1
<b>PML-M100 (D100)R</b>	<b>1014181</b>	1

Accessories		
Type	Order No.	Pcs. / Pkt.
<b>TM-RIBBON 110-TC/TR WH</b>	<b>1014402</b>	1

## System marking

### Stick-on mandatory signs, preprinted, with symbols



The PML-M mandatory signs are available with various symbols. The mandatory signs offer the following features:

- Highly flexible, plasticized PVC labels which are ideal for uneven surfaces
- Suitable for indoor and outdoor use
- The mandatory signs conform to the ISO 7010 international standard



Symbol - General mandatory action symbol

General data	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data	
PVC	
-40 ... 90	
DIN EN 61010-1 (VDE 0411-1)	
Silicone-free	

Description	Color
<b>Mandatory sign, preprinted with "General mandatory action" symbol</b>	
3-section, diameter: 50 mm	blue
3-section, diameter: 100 mm	blue
1-section, diameter: 200 mm	blue
<b>Mandatory sign, preprinted with "Wear safety goggles" symbol</b>	
3-section, diameter: 50 mm	blue
3-section, diameter: 100 mm	blue
1-section, diameter: 200 mm	blue
<b>Mandatory sign, preprinted with "Observe instructions for use" symbol</b>	
3-section, diameter: 50 mm	blue
3-section, diameter: 100 mm	blue
1-section, diameter: 200 mm	blue
<b>Mandatory sign, preprinted with "Wear ear protectors" symbol</b>	
3-section, diameter: 50 mm	blue
3-section, diameter: 100 mm	blue
1-section, diameter: 200 mm	blue

Ordering data		
Type	Order No.	Pcs. / Pkt.
<b>PML-M101 (D50)</b>	<b>1014137</b>	5
<b>PML-M101 (D100)</b>	<b>1014138</b>	5
<b>PML-M101 (D200)</b>	<b>1014139</b>	5





Symbol - Wear safety goggles



Symbol - Observe instructions for use



Symbol - Wear ear protectors

Technical data
PVC -40 ... 90 DIN EN 61010-1 (VDE 0411-1) Silicone-free

Technical data
PVC -40 ... 90 DIN EN 61010-1 (VDE 0411-1) Silicone-free

Technical data
PVC -40 ... 90 DIN EN 61010-1 (VDE 0411-1) Silicone-free

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-M102 (D50)	1014140	5
PML-M102 (D100)	1014141	5
PML-M102 (D200)	1014142	5

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-M103 (D50)	1014143	5
PML-M103 (D100)	1014144	5
PML-M103 (D200)	1014145	5

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-M104 (D50)	1014146	5
PML-M104 (D100)	1014147	5
PML-M104 (D200)	1014148	5

## System marking

### Stick-on mandatory signs, preprinted, with symbols

#### Printed cards

- Highly flexible, plasticized PVC labels which are ideal for uneven surfaces
- Suitable for indoor and outdoor use
- The mandatory signs conform to the ISO 7010 international standard



Symbol - Wear face shield



Symbol - Wear safety helmet

		Technical data			Technical data		
<b>General data</b>							
Material		PVC			PVC		
Temperature range	[°C]	-40 ... 90			-40 ... 90		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)			DIN EN 61010-1 (VDE 0411-1)		
Components		Silicone-free			Silicone-free		
		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
<b>Mandatory sign, preprinted with "Wear face shield" symbol</b>							
3-section, diameter: 50 mm	blue	<b>PML-M105 (D50)</b>	<b>1014149</b>	5			
3-section, diameter: 100 mm	blue	<b>PML-M105 (D100)</b>	<b>1014150</b>	5			
1-section, diameter: 200 mm	blue	<b>PML-M105 (D200)</b>	<b>1014151</b>	5			
<b>Mandatory sign, preprinted with "Wear safety helmet" symbol</b>							
3-section, diameter: 50 mm	blue				<b>PML-M106 (D50)</b>	<b>1014152</b>	5
3-section, diameter: 100 mm	blue				<b>PML-M106 (D100)</b>	<b>1014153</b>	5
1-section, diameter: 200 mm	blue				<b>PML-M106 (D200)</b>	<b>1014154</b>	5
<b>Mandatory sign, preprinted with "Use face mask" symbol</b>							
3-section, diameter: 50 mm	blue						
3-section, diameter: 100 mm	blue						
1-section, diameter: 200 mm	blue						
<b>Mandatory sign, preprinted with "Wear protective gloves" symbol</b>							
3-section, diameter: 50 mm	blue						
3-section, diameter: 100 mm	blue						
1-section, diameter: 200 mm	blue						
<b>Mandatory sign, preprinted with "Wear protective clothing" symbol</b>							
3-section, diameter: 50 mm	blue						
3-section, diameter: 100 mm	blue						
1-section, diameter: 200 mm	blue						



Symbol - Use face mask



Symbol - Wear protective gloves



Symbol - Wear protective clothing

Technical data
PVC -40 ... 90 DIN EN 61010-1 (VDE 0411-1) Silicone-free

Technical data
PVC -40 ... 90 DIN EN 61010-1 (VDE 0411-1) Silicone-free

Technical data
PVC -40 ... 90 DIN EN 61010-1 (VDE 0411-1) Silicone-free

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-M107 (D50)	1014155	5
PML-M107 (D100)	1014156	5
PML-M107 (D200)	1014157	5

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-M108 (D50)	1014158	5
PML-M108 (D100)	1014159	5
PML-M108 (D200)	1014160	5

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-M109 (D50)	1014161	5
PML-M109 (D100)	1014162	5
PML-M109 (D200)	1014163	5

## System marking

### Stick-on mandatory signs, preprinted, with symbols

Printed cards

- Highly flexible, plasticized PVC labels which are ideal for uneven surfaces
- Suitable for indoor and outdoor use
- The mandatory signs conform to the ISO 7010 international standard



Symbol - Disconnect before starting work



Symbol - Wear conductive footwear

General data		Technical data			Technical data		
		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Material		PVC			PVC		
Temperature range	[°C]	-40 ... 90			-40 ... 90		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)			DIN EN 61010-1 (VDE 0411-1)		
Components		Silicone-free			Silicone-free		
<b>Mandatory sign, preprinted with "Disconnect before starting work" symbol</b>							
3-section, diameter: 50 mm	blue	<b>PML-M110 (D50)</b>	<b>1014164</b>	5			
3-section, diameter: 100 mm	blue	<b>PML-M110 (D100)</b>	<b>1014165</b>	5			
1-section, diameter: 200 mm	blue	<b>PML-M110 (D200)</b>	<b>1014166</b>	5			
<b>Mandatory sign, preprinted with "Wear conductive footwear" symbol</b>							
3-section, diameter: 50 mm	blue				<b>PML-M111 (D50)</b>	<b>1014167</b>	5
3-section, diameter: 100 mm	blue				<b>PML-M111 (D100)</b>	<b>1014168</b>	5
1-section, diameter: 200 mm	blue				<b>PML-M111 (D200)</b>	<b>1014169</b>	5
<b>Mandatory sign, preprinted with "Wear head cover" symbol</b>							
3-section, diameter: 50 mm	blue						
3-section, diameter: 100 mm	blue						
1-section, diameter: 200 mm	blue						
<b>Mandatory sign, preprinted with "Wear safety shoes" symbol</b>							
3-section, diameter: 50 mm	blue						
3-section, diameter: 100 mm	blue						
1-section, diameter: 200 mm	blue						



Symbol - Wear head cover



Symbol - Wear safety shoes

Technical data
PVC
-40 ... 90
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Technical data
PVC
-40 ... 90
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-M112 (D50)	1014170	5
PML-M112 (D100)	1014171	5
PML-M112 (D200)	1014172	5

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-M113 (D50)	1014173	5
PML-M113 (D100)	1014174	5
PML-M113 (D200)	1014175	5

## System marking

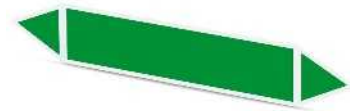
### Stick-on pipeline markers, unmarked

Can be marked using:



Thermal transfer for rolls

PRINTED  
FOR YOU



Group 1 (water)

The color preprinted PML-T... pipeline markers supplied in rolls enable the custom marking of pipelines according to DIN 2403. The markers offer the following features:

- Finely perforated arrowheads enable the arrowheads which are not required to be easily removed
- High adhesive strength
- High temperature resistance
- Suitable for indoor and outdoor use
- In combination with the PML-GHS hazardous substances labels, marking which conforms to the Ordinance on Hazardous Substances (GefStoffV) can be applied
- The format automatically ensures printing with a high level of positional accuracy
- The special packaging protects rolls that have already been started from the dirt found in industrial environments
- Marking service: Phoenix Contact can custom-mark all markers according to your requirements

#### General data

Can be marked using

Material  
Temperature range [°C]  
Wipe resistance

#### Technical data

THERMOMARK ROLL • THERMOMARK X1.1 • THERMOMARK X1.2  
Polyester  
-40 ... 150  
DIN EN 61010-1 (VDE 0411-1)

#### Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
<b>Pipeline markers, green, group 1 (water), unprinted</b>				
250 labels per roll, marker size: 26 x 280 mm	green	<b>PML-T101 (26X280)R</b>	<b>1014229</b>	1
250 labels per roll, marker size: 52 x 560 mm	green	<b>PML-T101 (52X560)R</b>	<b>1014230</b>	1
<b>Pipeline markers, red, group 2 (steam), unprinted</b>				
250 labels per roll, marker size: 26 x 280 mm	red			
250 labels per roll, marker size: 52 x 560 mm	red			
<b>Pipeline markers, gray, group 3 (air), unprinted</b>				
250 labels per roll, marker size: 26 x 280 mm	gray			
250 labels per roll, marker size: 52 x 560 mm	gray			
<b>Pipeline markers, yellow/red, group 4 (combustible gases), unprinted</b>				
250 labels per roll, marker size: 26 x 280 mm	yellow/red			
250 labels per roll, marker size: 52 x 560 mm	yellow/red			

#### Accessories

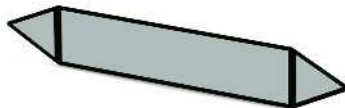
<b>Ink ribbon</b> , specially for US-PML..., US-EMLF..., Length: 240 m, width: 110 mm <b>Ink ribbon</b> , length: 300 m, width: 110 mm	<b>TM-RIBBON 110-TC/TR WH</b>	<b>1014402</b>	1
<b>Hazardous substances label</b> , roll, red/white, preprinted, can be marked with: THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK X1.2, attachment type: adhered 500 labels per roll, marker size: 13 x 13 mm 500 labels per roll, marker size: 25 x 25 mm	<b>PML-GHS100 (13X13)R</b> <b>PML-GHS100 (25X25)R</b>	<b>1014289</b> <b>1014290</b>	1 1
<b>Hazardous substances label</b> , roll, red/white, preprinted, can be marked with: THERMOMARK CARD, attachment type: adhered, 50-section, marker size: 13 x 13 mm 9-section, marker size: 25 x 25 mm	<b>US-PML-GHS100 (13X13)</b> <b>US-PML-GHS100 (25X25)</b>	<b>1014287</b> <b>1014288</b>	10 10

PRINTED  
FOR YOU



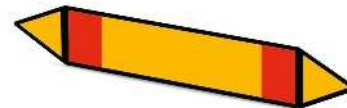
Group 2 (steam)

PRINTED  
FOR YOU



Group 3 (air)

PRINTED  
FOR YOU



Group 4 (combustible gases)

Technical data
THERMOMARK ROLL • THERMOMARK X1.1 • THERMOMARK X1.2 Polyester -40 ... 150 DIN EN 61010-1 (VDE 0411-1)

Technical data
THERMOMARK ROLL • THERMOMARK X1.1 • THERMOMARK X1.2 Polyester -40 ... 150 DIN EN 61010-1 (VDE 0411-1)

Technical data
THERMOMARK ROLL • THERMOMARK X1.1 • THERMOMARK X1.2 Polyester -40 ... 150 DIN EN 61010-1 (VDE 0411-1)

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-T102 (26X280)R	1014231	1
PML-T102 (52X560)R	1014232	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-T103 (26X280)R	1014233	1
PML-T103 (52X560)R	1014234	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-T104 (26X280)R	1014235	1
PML-T104 (52X560)R	1014236	1

Accessories		
Type	Order No.	Pcs. / Pkt.
TM-RIBBON 110-TC/TR WH	1014402	1
PML-GHS100 (13X13)R	1014289	1
PML-GHS100 (25X25)R	1014290	1
US-PML-GHS100 (13X13)	1014287	10
US-PML-GHS100 (25X25)	1014288	10

Accessories		
Type	Order No.	Pcs. / Pkt.
THERMOMARK-RIBBON 110	5145384	1
PML-GHS100 (13X13)R	1014289	1
PML-GHS100 (25X25)R	1014290	1
US-PML-GHS100 (13X13)	1014287	10
US-PML-GHS100 (25X25)	1014288	10

Accessories		
Type	Order No.	Pcs. / Pkt.
THERMOMARK-RIBBON 110	5145384	1
PML-GHS100 (13X13)R	1014289	1
PML-GHS100 (25X25)R	1014290	1
US-PML-GHS100 (13X13)	1014287	10
US-PML-GHS100 (25X25)	1014288	10

## System marking

### Stick-on pipeline markers, unmarked

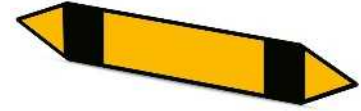
Can be marked using:

- Finely perforated arrowheads enable the arrowheads which are not required to be easily removed
- High adhesive strength
- High temperature resistance
- Suitable for indoor and outdoor use
- In combination with the PML-GHS hazardous substances labels, marking which conforms to the Ordinance on Hazardous Substances (GefStoffV) can be applied



Thermal transfer for rolls

PRINTED  
FOR YOU

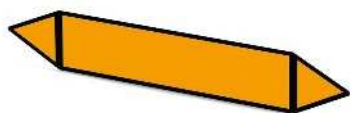


Group 5 (non-combustible gases)

General data		Technical data		
Can be marked using		THERMOMARK ROLL • THERMOMARK X1.1 • THERMOMARK X1.2		
Material		Polyester		
Temperature range		-40 ... 150 [°C]		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)		
Description		Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.
<b>Pipeline markers, yellow/black, group 5 (non-combustible gases), unprinted</b>				
250 labels per roll, marker size: 26 x 280 mm	yellow/black	<b>PML-T105 (26X280)R</b>	<b>1014237</b>	1
250 labels per roll, marker size: 52 x 560 mm	yellow/black	<b>PML-T105 (52X560)R</b>	<b>1014238</b>	1
<b>Pipeline markers, orange, group 6 (acids), unprinted</b>				
250 labels per roll, marker size: 26 x 280 mm	orange			
250 labels per roll, marker size: 52 x 560 mm	orange			
<b>Pipeline markers, violet, group 7 (alkalis), unprinted</b>				
250 labels per roll, marker size: 26 x 280 mm	violet			
250 labels per roll, marker size: 52 x 560 mm	violet			
<b>Pipeline markers, brown/red, group 8 (combustible liquids), unprinted</b>				
250 labels per roll, marker size: 26 x 280 mm	brown/red			
250 labels per roll, marker size: 52 x 560 mm	brown/red			
Ink ribbon, length: 300 m, width: 110 mm		Accessories		
<b>Ink ribbon, specially for US-PML..., US-EMLF..., Length: 240 m, width: 110 mm</b>		<b>THERMOMARK-RIBBON 110</b>	<b>5145384</b>	1
<b>Hazardous substances label, roll, red/white, preprinted, can be marked with: THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK X1.2, attachment type: adhered</b>				
500 labels per roll, marker size: 13 x 13 mm		<b>PML-GHS100 (13X13)R</b>	<b>1014289</b>	1
500 labels per roll, marker size: 25 x 25 mm		<b>PML-GHS100 (25X25)R</b>	<b>1014290</b>	1
<b>Hazardous substances label, roll, red/white, preprinted, can be marked with: THERMOMARK CARD, attachment type: adhered,</b>				
50-section, marker size: 13 x 13 mm		<b>US-PML-GHS100 (13X13)</b>	<b>1014287</b>	10
9-section, marker size: 25 x 25 mm		<b>US-PML-GHS100 (25X25)</b>	<b>1014288</b>	10

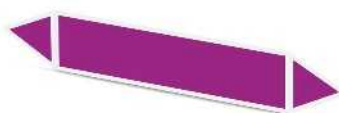


PRINTED  
FOR YOU



Group 6 (acids)

PRINTED  
FOR YOU



Group 7 (alkalis)

PRINTED  
FOR YOU



Group 8 (combustible liquids)

Technical data
THERMOMARK ROLL • THERMOMARK X1.1 • THERMOMARK X1.2 Polyester -40 ... 150 DIN EN 61010-1 (VDE 0411-1)

Technical data
THERMOMARK ROLL • THERMOMARK X1.1 • THERMOMARK X1.2 Polyester -40 ... 150 DIN EN 61010-1 (VDE 0411-1)

Technical data
THERMOMARK ROLL • THERMOMARK X1.1 • THERMOMARK X1.2 Polyester -40 ... 150 DIN EN 61010-1 (VDE 0411-1)

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-T106 (26X280)R	1014239	1
PML-T106 (52X560)R	1014240	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-T107 (26X280)R	1014241	1
PML-T107 (52X560)R	1014242	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-T108 (26X280)R	1014243	1
PML-T108 (52X560)R	1014244	1

Accessories		
Type	Order No.	Pcs. / Pkt.
THERMOMARK-RIBBON 110	5145384	1
PML-GHS100 (13X13)R	1014289	1
PML-GHS100 (25X25)R	1014290	1
US-PML-GHS100 (13X13)	1014287	10
US-PML-GHS100 (25X25)	1014288	10

Accessories		
Type	Order No.	Pcs. / Pkt.
TM-RIBBON 110-TC/TR WH	1014402	1
PML-GHS100 (13X13)R	1014289	1
PML-GHS100 (25X25)R	1014290	1
US-PML-GHS100 (13X13)	1014287	10
US-PML-GHS100 (25X25)	1014288	10

Accessories		
Type	Order No.	Pcs. / Pkt.
TM-RIBBON 110-TC/TR WH	1014402	1
PML-GHS100 (13X13)R	1014289	1
PML-GHS100 (25X25)R	1014290	1
US-PML-GHS100 (13X13)	1014287	10
US-PML-GHS100 (25X25)	1014288	10

## System marking

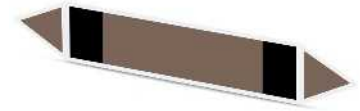
### Stick-on pipeline markers, unmarked

Can be marked using:

- Finely perforated arrowheads enable the arrowheads which are not required to be easily removed
- High adhesive strength
- High temperature resistance
- Suitable for indoor and outdoor use
- In combination with the PML-GHS hazardous substances labels, marking which conforms to the Ordinance on Hazardous Substances (GefStoffV) can be applied



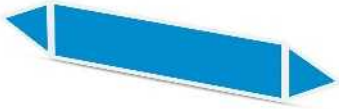
Thermal transfer for rolls



Group 9 (non-combustible liquids)

General data		Technical data		
Can be marked using		THERMOMARK ROLL • THERMOMARK X1.1 • THERMOMARK X1.2		
Material		Polyester		
Temperature range		-40 ... 150		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)		
Description		Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.
<b>Pipeline markers, brown/black, group 9 (non-combustible liquids), unprinted</b>				
250 labels per roll, marker size: 26 x 280 mm	brown/black	<b>PML-T109 (26X280)R</b>	<b>1014245</b>	1
250 labels per roll, marker size: 52 x 560 mm	brown/black	<b>PML-T109 (52X560)R</b>	<b>1014246</b>	1
<b>Pipeline markers, blue, group 0 (oxygen), unprinted</b>				
250 labels per roll, marker size: 26 x 280 mm	blue			
250 labels per roll, marker size: 52 x 560 mm	blue			
Ink ribbon, specially for US-PML..., US-EMLF...,		Accessories		
Length: 240 m, width: 110 mm		<b>TM-RIBBON 110-TC/TR WH</b>	<b>1014402</b>	1
<b>Hazardous substances label, roll, red/white, preprinted, can be marked with: THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK X1.2, attachment type: adhered</b>				
500 labels per roll, marker size: 13 x 13 mm		<b>PML-GHS100 (13X13)R</b>	<b>1014289</b>	1
500 labels per roll, marker size: 25 x 25 mm		<b>PML-GHS100 (25X25)R</b>	<b>1014290</b>	1
<b>Hazardous substances label, roll, red/white, preprinted, can be marked with: THERMOMARK CARD, attachment type: adhered,</b>				
50-section, marker size: 13 x 13 mm		<b>US-PML-GHS100 (13X13)</b>	<b>1014287</b>	10
9-section, marker size: 25 x 25 mm		<b>US-PML-GHS100 (25X25)</b>	<b>1014288</b>	10

PRINTED  
FOR YOU



Group 0 (oxygen)

**Technical data**

THERMOMARK ROLL • THERMOMARK X1.1 • THERMOMARK X1.2  
Polyester  
-40 ... 150  
DIN EN 61010-1 (VDE 0411-1)

**Ordering data**

Type	Order No.	Pcs. / Pkt.
PML-T110 (26X280)R	1014247	1
PML-T110 (52X560)R	1014248	1

**Accessories**

TM-RIBBON 110-TC/TR WH	1014402	1
PML-GHS100 (13X13)R	1014289	1
PML-GHS100 (25X25)R	1014290	1
US-PML-GHS100 (13X13)	1014287	10
US-PML-GHS100 (25X25)	1014288	10

## System marking

### UniSheet - stick-on hazardous substances labels, color preprinted, without symbols



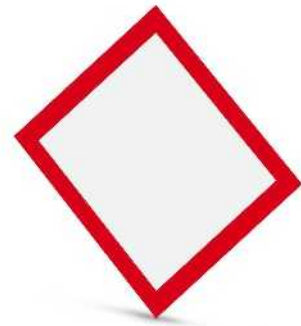
The unmarked US-PML-GHS hazardous substances labels on US cards allow you to create custom information signs. A variety of symbols are available in the CLIP PROJECT software. The hazardous substances labels offer the following features:

- High adhesive strength
- High temperature resistance
- Suitable for indoor and outdoor use
- The markers conform to the GHS international standard
- The markers, which are supplied in uniform sheets, can be printed onto quickly, easily, and cost-effectively using the THERMOMARK CARD
- The format automatically ensures printing with a high level of positional accuracy
- The perforated markers are easy to separate

Can be marked using:



Thermal transfer for sheets and cards



Unmarked

#### General data

Can be marked using	
Material	
Temperature range	[°C]
Wipe resistance	

Description	Color
<b>Hazardous substances label</b> , roll, red/white, preprinted, can be marked with: THERMOMARK CARD, attachment type: adhered,	
50-section, marker size: 13 x 13 mm	red/white
9-section, marker size: 25 x 25 mm	red/white

**Magazine**, for THERMOMARK CARD..., for accommodating all US-materials

**Ink ribbon**, length: 300 m, width: 110 mm

#### Technical data

THERMOMARK CARD
Polyester
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)

#### Ordering data

Type	Order No.	Pcs. / Pkt.
US-PML-GHS100 (13X13)	1014287	10
US-PML-GHS100 (25X25)	1014288	10

#### Accessories

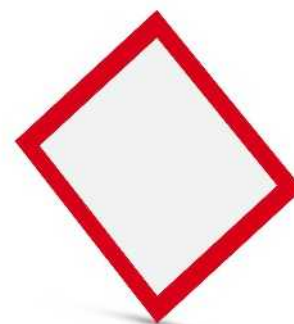
THERMOMARK CARD-US-MAG1	5146451	1
THERMOMARK-RIBBON 110-TC	0801371	1

**Stick-on hazardous substances labels, color preprinted, without symbols**

Can be marked using:



Thermal transfer for rolls



Unmarked



The color preprinted PML-GHS...R hazardous substances labels on a roll allow you to create custom information signs. A variety of symbols are available in the CLIP PROJECT software. The hazardous substances labels offer the following features:

- High adhesive strength
- High temperature resistance
- Suitable for indoor and outdoor use
- The markers conform to the GHS international standard
- The format automatically ensures printing with a high level of positional accuracy
- The special packaging protects rolls that have already been started from the dirt found in industrial environments

**General data**

Can be marked using

Material

Temperature range

[°C]

Wipe resistance

**Technical data**

THERMOMARK ROLL • THERMOMARK X1.1 • THERMOMARK X1.2  
 Polyester  
 -40 ... 150  
 DIN EN 61010-1 (VDE 0411-1)

**Ordering data**

Description	Color
<b>Hazardous substances label</b> , roll, red/white, preprinted, can be marked with: THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK X1.2, attachment type: adhered	
500 labels per roll, marker size: 13 x 13 mm	red/white
500 labels per roll, marker size: 25 x 25 mm	red/white

Type	Order No.	Pcs. / Pkt.
PML-GHS100 (13X13)R	1014289	1
PML-GHS100 (25X25)R	1014290	1

**Ink ribbon**, length: 300 m, width: 110 mm

**Accessories**

THERMOMARK-RIBBON 110	5145384	1
-----------------------	---------	---

## System marking

### Stick-on hazardous substances labels, preprinted with symbol



The PML-GHS hazardous substances labels are available with various symbols and enable the additional custom marking of the PML-T pipeline markers according to the Ordinance on Hazardous Substances. The hazardous substances labels offer the following features:

- High adhesive strength
- High temperature resistance
- Suitable for indoor and outdoor use
- The hazardous substances labels conform to the GHS international standard



Symbol - Explosive

General data	
Material	
Temperature range	[°C]
Wipe resistance	

Technical data	
Material	Polyester
Temperature range	-40 ... 150
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)

Description	Color
<b>Hazardous substances label, preprinted with "Explosive" symbol</b>	
35-section, marker size: 13 x 13 mm	red/white
12-section, marker size: 25 x 25 mm	red/white
<b>Hazardous substances label, preprinted with "Flammable" symbol</b>	
35-section, marker size: 13 x 13 mm	red/white
12-section, marker size: 25 x 25 mm	red/white
<b>Hazardous substances label, preprinted with "Oxidizing" symbol</b>	
35-section, marker size: 13 x 13 mm	red/white
12-section, marker size: 25 x 25 mm	red/white
<b>Hazardous substances label, preprinted with "Pressurized gases" symbol</b>	
35-section, marker size: 13 x 13 mm	red/white
12-section, marker size: 25 x 25 mm	red/white

Ordering data		
Type	Order No.	Pcs. / Pkt.
<b>PML-GHS101 (13X13)</b>	<b>1014269</b>	5
<b>PML-GHS101 (25X25)</b>	<b>1014270</b>	5



Symbol - Flammable



Symbol - Oxidizing



Symbol - Pressurized gases

Technical data
Polyester -40 ... 150 DIN EN 61010-1 (VDE 0411-1)

Technical data
Polyester -40 ... 150 DIN EN 61010-1 (VDE 0411-1)

Technical data
Polyester -40 ... 150 DIN EN 61010-1 (VDE 0411-1)

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-GHS102 (13X13)	1014271	5
PML-GHS102 (25X25)	1014272	5

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-GHS103 (13X13)	1014273	5
PML-GHS103 (25X25)	1014274	5

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-GHS104 (13X13)	1014275	5
PML-GHS104 (25X25)	1014276	5

## System marking

### Stick-on hazardous substances labels, preprinted with symbol

- Printed cards
- High adhesive strength
- High temperature resistance
- Suitable for indoor and outdoor use
- The hazardous substances labels conform to the GHS international standard



Symbol - Corrosivity



Symbol - Toxic

		Technical data			Technical data		
<b>General data</b>							
Material		Polyester			Polyester		
Temperature range	[°C]	-40 ... 150			-40 ... 150		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)			DIN EN 61010-1 (VDE 0411-1)		
		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
<b>Hazardous substances label</b> , preprinted with "Corrosivity" symbol							
35-section, marker size: 13 x 13 mm	red/white	<b>PML-GHS105 (13X13)</b>	<b>1014277</b>	5			
12-section, marker size: 25 x 25 mm	red/white	<b>PML-GHS105 (25X25)</b>	<b>1014278</b>	5			
<b>Hazardous substances label</b> , preprinted with "Toxic" symbol							
35-section, marker size: 13 x 13 mm	red/white				<b>PML-GHS106 (13X13)</b>	<b>1014279</b>	5
12-section, marker size: 25 x 25 mm	red/white				<b>PML-GHS106 (25X25)</b>	<b>1014280</b>	5
<b>Hazardous substances label</b> , preprinted with "General symbol for hazardous substances"							
35-section, marker size: 13 x 13 mm	red/white						
12-section, marker size: 25 x 25 mm	red/white						
<b>Hazardous substances label</b> , preprinted with "Hazardous to health" symbol							
35-section, marker size: 13 x 13 mm	red/white						
12-section, marker size: 25 x 25 mm	red/white						
<b>Hazardous substances label</b> , preprinted with "Hazardous to the environment" symbol							
35-section, marker size: 13 x 13 mm	red/white						
12-section, marker size: 25 x 25 mm	red/white						





Symbol - General symbol for hazardous substances



Symbol - Hazardous to health



Symbol - Hazardous to the environment

Technical data
Polyester -40 ... 150 DIN EN 61010-1 (VDE 0411-1)

Technical data
Polyester -40 ... 150 DIN EN 61010-1 (VDE 0411-1)

Technical data
Polyester -40 ... 150 DIN EN 61010-1 (VDE 0411-1)

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-GHS107 (13X13) PML-GHS107 (25X25)	1014281 1014282	5 5

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-GHS108 (13X13) PML-GHS108 (25X25)	1014283 1014284	5 5

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-GHS109 (13X13) PML-GHS109 (25X25)	1014285 1014286	5 5

## System marking

### UniSheet - stick-on combi labels, unprinted

Can be marked using:



Thermal transfer for sheets and cards



Unmarked or marked according to customer specifications

The unmarked US-EMLF ... combi labels on US ... cards allow you to create custom information signs. A variety of symbols which conform to ISO 7010 are available in the CLIP PROJECT software. The markers offer the following features:

- High adhesive strength
- Suitable for indoor and outdoor use
- The markers, which are supplied in uniform sheets, can be marked quickly, easily, and inexpensively
- The format automatically ensures printing with a high level of positional accuracy
- The perforated markers are easy to separate

#### General data

Can be marked using	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

#### Technical data

THERMOMARK CARD
PVC
-40 ... 90
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

#### Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
<b>UniSheet, with self-adhesive labels, 2-section, lettering field size: 104 x 70 mm</b>				
	white	US-EMLF (104X70)	1014294	10
	yellow	US-EMLF (104X70) YE	1014295	10
	blue	US-EMLF (104X70) BU	1014296	10
<b>UniSheet, with self-adhesive labels, 1-section, lettering field size: 104 x 140 mm</b>				
	white	US-EMLF (104X140)	1014291	10
	yellow	US-EMLF (104X140) YE	1014292	10
	blue	US-EMLF (104X140) BU	1014293	10

Magnetic labels, unprinted

Can be marked using:



Thermal transfer for rolls



Unmarked or marked according to customer specifications

The PMM magnetic labels supplied in rolls represent an individual and flexible marking solution, e.g., for stock marking. A variety of symbols, linear and 2D codes are available in the CLIP PROJECT software. The magnetic labels offer the following features:

- High adhesive strength
- Magnetic tape coated with polyester foil
- The flexible magnetic tape will also adhere to round objects with a radius of 12 mm and higher
- The format automatically ensures printing with a high level of positional accuracy
- When used in conjunction with high-quality ink ribbons, a resistant form of marking is produced, which is even suitable for harsh environments
- The special packaging protects rolls that have already been started from the dirt found in industrial environments
- Easy to assemble with the THERMOMARK CUTTER

General data

Can be marked using	
Material	
Temperature range	[°C]
Wipe resistance	

Technical data

THERMOMARK ROLL • THERMOMARK X1.1 • THERMOMARK X1.2
Magnetic tape
-30 ... 55
DIN EN 61010-1 (VDE 0411-1)

Description

Description	Color
Magnetic foil as continuous media, anisotropic, 1 roll = 15 m, label height: 20 mm	white silver yellow
Magnetic foil as continuous media, anisotropic, 1 roll = 15 m, label height: 25 mm	white silver yellow
Magnetic foil as continuous media, anisotropic, 1 roll = 15 m, label height: 30 mm	white silver yellow
Magnetic foil as continuous media, anisotropic, 1 roll = 15 m, label height: 40 mm	white silver yellow
Magnetic foil as continuous media, anisotropic, 1 roll = 15 m, label height: 50 mm	white silver yellow

Ordering data

Type	Order No.	Pcs. / Pkt.
PMM (EX20)R	1014303	1
PMM (EX20)R SR	1014304	1
PMM (EX20)R YE	1014305	1
PMM (EX25)R	1014306	1
PMM (EX25)R SR	1014307	1
PMM (EX25)R YE	1014308	1
PMM (EX30)R	1014309	1
PMM (EX30)R SR	1014310	1
PMM (EX30)R YE	1014311	1
PMM (EX40)R	1014312	1
PMM (EX40)R SR	1014313	1
PMM (EX40)R YE	1014314	1
PMM (EX50)R	1014315	1
PMM (EX50)R SR	1014316	1
PMM (EX50)R YE	1014317	1

Ink ribbon, length: 300 m, width: 110 mm

Accessories

THERMOMARK-RIBBON 110	5145384	1
-----------------------	---------	---



# Hand tools - TOOL fox

The TOOL fox range of tools provides processing and measuring tools for all electrical engineering applications.

The ergonomically designed tools for cutting, stripping, crimping, screwing, and testing impress with their optimum handling and quality. Specially hardened tool steels ensure maximum durability.

Cutting machines, stripping machines, and crimping machines are available which can be used to automate steps.

A wide range of connectors rounds off the product range.

## Product range overview

<b>Hand tools</b>	<b>358</b>
<b>CUTFOX ... cutting tools and UNIFOX ... universal tools</b>	
Cable cutters	360
Cutting tools for special applications	362
Universal tools	365
Cable duct, profile, and DIN-rail cutters	369
<b>MICROFOX electronics pliers</b>	<b>372</b>
<b>WIREFOX stripping tools</b>	
Stripping tools	374
Stripping tools	380
<b>CRIMPFOX pressing and crimping tools</b>	<b>384</b>
CRIMPHANDY portable hand-held machine	384
CRIMPFOX 4 IN 1 multi-functional crimping pliers	387
Crimp pliers for ferrules	388
Crimping pliers for ring cable and tube lugs	394
Universal basic pliers for connectors up to 120 mm <sup>2</sup>	399
Crimping pliers for slip-on sleeves	400
Crimping pliers for turned contacts	402
Crimping pliers for coaxial, FO, D-SUB, CATV, data plugs, and solar connectors	403
Universal basic pliers	405
<b>SCREWFOX screwdriver tools</b>	
Screwdrivers	408
Cordless screwdrivers	417
Socket wrenches	422
Control cabinet keys	425
<b>TESTFOX measuring tools</b>	
Voltage and continuity testers	426
Digital multimeters	427
<b>Tool sets</b>	<b>430</b>
<b>Customer-specific hand tools and tool sets</b>	<b>437</b>
<b>Connectors</b>	<b>444</b>



Professional cutting



Professional stripping



Professional crimping



An ideal cable cutter is available for every application. The various versions enable professional processing of conductors and cables with a diameter of up to 100 mm. All parts of the cable cutters that are subject to particular strain are tempered and specially hardened.



Profile cutters are available for rapid processing of DIN rails and cable ducts without chips or burrs. An optional hydraulic unit can be attached to convert manual DIN-rail cutters into automatic ones.



The stripping tools can strip all types of conductors and cables quickly, precisely and reliably. They adapt automatically to the conductor cross section concerned.



CRIMPFOX 4 IN 1 are multi-functional crimping pliers for processing conductors and ferrules. A variety of work steps can be performed with just a single tool: cutting, stripping, twisting, and crimping.



The product innovation for switchgear manufacturing – the CRIMPHANDY, a battery-operated, portable hand-held machine. It strips and crimps the conductor in under two seconds, resulting in time savings of 75 percent.



The extensive range of professional crimping pliers can be used to process a variety of contact types with a cross section of up to 120 mm<sup>2</sup>. The innovative design and ergonomically shaped handles reduce the forces required by up to 25 percent.



With their interchangeable dies, the CRIMPFOX-M universal crimping pliers can be used to process all kinds of contacts. The dies can be changed quickly and easily without the need for additional tools.



With their precise torque-setting feature, the torque and cordless screwdrivers are the perfect complement to the Phoenix Contact range of screw terminal blocks. The wide range of hardened BIT screwdriver inserts makes the products suitable for universal use.



Our multimeters, current pliers, and voltage testers are high-quality measuring tools, which have been tested and approved in accordance with national and international standards.

## Hand tools

### CUTFOX cable cutters

- CUTFOX ... cable cutters for professional cutting results
- Suitable for conductors with a max. diameter of 18 mm
- Ergonomic grip design to eliminate fatigue when working
- All parts of the cable cutters that are subject to particular strain are tempered or specially hardened



Up to a maximum conductor diameter of 12 mm



Up to a maximum conductor diameter of 18 mm

Description
<b>Cable cutter</b> , for copper and aluminum up to 12 mm diameter (up to 35 mm <sup>2</sup> ), size: 165 mm
<b>Cable cutter</b> , angled, for copper and aluminum up to 18 mm diameter (up to 50 mm <sup>2</sup> ), size: 180 mm
<b>Electrician's scissors</b> , high cutting performance, thanks to micro-serrated cutting area, suitable for copper, aluminum, Kevlar fibers, and plastic, two-component non-slip soft-grip handles, ergonomic design, adjustable screw joint

Ordering data		
Type	Order No.	Pcs. / Pkt.
CUTFOX 12	1212128	1
CUTFOX-ES	1212621	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
CUTFOX 18	1212129	1

### CUTFOX one-handed ring cable cutters

- CUTFOX ... one-handed ring cable cutters for professional cutting results
- Extremely robust design
- Minimum deformation of the conductors and cables
- Can be released in all positions
- Superb cutting quality
- Little force needed due to ratchet function



Up to a maximum conductor diameter of 50 mm, steel-armored



Up to a maximum conductor diameter of 45 mm

Description
<b>Ring cable cutter</b> , with ratchet function, for copper and aluminum up to a diameter of 50 mm, for steel-armored CU/AL cables, for stranded steel cables up to a diameter of 12 mm, equipped with needle bearings, size: 260 mm
<b>Ring cable cutter</b> , with ratchet function, for copper and aluminum up to 45 mm diameter (up to 300 mm <sup>2</sup> ), size: 260 mm
<b>Ring cable cutter</b> , with ratchet function, for copper and aluminum up to 52 mm diameter (up to 300 mm <sup>2</sup> ), size: 325 mm

Ordering data		
Type	Order No.	Pcs. / Pkt.
CUTFOX 50 STEEL	1212526	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
CUTFOX 45	1212132	1
CUTFOX 52	1212133	1



**CUTFOX cable cutters**

- CUTFOX ... cable cutters for professional cutting results
- With ratchet function for minimum effort
- All parts of the cable cutters that are subject to particular strain are tempered or specially hardened
- Ideal in tight workspaces
- Adjustable screw joint
- Can be released in all positions
- Extremely robust



Up to a maximum conductor diameter of 25 mm



Up to a maximum conductor diameter of 35 mm

Ordering data		
Type	Order No.	Pcs. / Pkt.
CUTFOX 25	1212130	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
CUTFOX 35	1212131	1

Description
<b>Cable cutter</b> , with ratchet function, for copper and aluminum up to 25 mm diameter (up to 185 mm <sup>2</sup> ), size: 245 mm
<b>Cable cutter</b> , with ratchet function, for copper and aluminum up to 35 mm diameter (up to 300 mm <sup>2</sup> ), size: 245 mm

**CUTFOX two-handed ring cable cutters**

- CUTFOX ... two-handed ring cable cutters for professional cutting results
- Suitable for conductors with a diameter of up to 100 mm
- With ratchet function for minimum effort
- Can be released in all positions
- Superb cutting quality
- Extremely robust design
- Lowest possible deformation of conductors and cables



Up to a maximum conductor diameter of 62 mm



Up to a maximum conductor diameter of 100 mm

Ordering data		
Type	Order No.	Pcs. / Pkt.
CUTFOX 62	1212134	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
CUTFOX 100	1212135	1

Description
<b>Two-hand ring cable cutter</b> , with ratchet function, for copper and aluminum up to 62 mm diameter (up to 750 mm <sup>2</sup> ), size: 410 mm
<b>Two-hand ring cable cutter</b> , with ratchet function, for copper and aluminum up to 100 mm diameter (up to 1400 mm <sup>2</sup> ), size: 610 mm

## Hand tools

### Cutting tools for special applications

- The CUTFOX–FBS cutting tool is suitable for cutting out individual bars from FBS ... plug-in bridges
- Screw-on bridges can be cut to length with the CUTFOX FB without crushing them
- VDE-tested cutting tools made from special high-grade tool steel
- Inductively hardened blades for long-term stable cutting performance



Front cutting tool for cutting out plug-in and insertion bridges



Cutting tool for screw-on bridges

ERC

ERC

#### Ordering data

#### Ordering data

Description
<b>Cutting tool</b> , for separating individual bridge bars from FBS ... jumpers and EB ... insertion bridges, size: 260 mm
<b>Bridge cutting tool</b> , for cutting FBI ... fixed bridges to length, size: 165 mm
<b>Cable cutter</b> , precision blade with macro-notching, for copper and aluminum up to 50 mm <sup>2</sup> , VDE 1000 V AC/1500 V DC tested, size: 160 mm
<b>Cable cutter</b> , precision blade with macro-notching, for copper and aluminum up to 70 mm <sup>2</sup> , VDE 1000 V AC/1500 V DC tested, size: 210 mm
<b>Cable cutter</b> , for laminated busbars/ribbed tape measuring up to 6 x 16 x 0.8 mm, copper and aluminum cables with a diameter of up to 50 mm, VDE 1000 V AC, 1500 V DC, size: 210 mm
<b>Diagonal cutter</b> , with optimized leverage, VDE 1000 V AC/1500 V DC tested, size: 160 mm
<b>Power diagonal cutter</b> , with optimized leverage, also suitable for piano wire, VDE 1000 V AC/1500 V DC tested, size: 200 mm
<b>Diagonal cutter</b> , with optimized leverage, VDE 1000 V AC/1500 V DC tested, size: 130 mm

Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
CUTFOX-FBS	1212124	1	CUTFOX FB	1205985	1



1000 V AC /  
1500 V DC

Cable cutter for conductors with a diameter of up to 25 mm (VDE)



1000 V AC /  
1500 V DC

Cable cutter for conductors and ribbed tape with a diameter of up to 50 mm (VDE)



1000 V AC /  
1500 V DC

Diagonal cutter, also suitable for piano wire (VDE)



Ordering data		
Type	Order No.	Pcs. / Pkt.
CUTFOX 16 VDE	1212126	1
CUTFOX 25 VDE	1212127	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
CUTFOX-LB VDE	1212527	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
CUTFOX-S VDE	1212207	1
CUTFOX-SP VDE	1212206	1
CUTFOX-S VDE M	1212830	1

Hand tools

**CUTFOX bolt cutter**

new

- The CUTFOX-SP BOLT VDE cutting tool is suitable for precise cutting of bolts, nails, rivets, steel wire, or similar hard materials
- VDE-tested cutting tools made from special high-grade tool steel
- Inductively hardened blades for permanently stable cutting performance



		Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.
<b>Power diagonal cutter</b> , with optimized leverage, also suitable for bolts and piano wire, VDE 1000 V AC/1500 V DC tested, size: 200 mm		<b>CUTFOX-SP BOLT VDE</b>	<b>1212831</b>	<b>1</b>

**CUTFOX cutting tools, angled design**

new

new

- CUTFOX-SE LM electricians diagonal cutter with stripping and cutting range
- Ergonomic grip design to eliminate fatigue when working
- All parts of the diagonal cutters that are subject to particular strain are tempered or specially hardened



		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
<b>Diagonal cutter</b> , angled design, size:180 mm		<b>CUTFOX-SE</b>	<b>1212832</b>	<b>1</b>			
<b>Electricians diagonal cutter</b> , angled design, with stripping, crimping, and bending function. Screw pincers up to M3.5/M4, size: 180 mm					<b>CUTFOX-SE LM</b>	<b>1212833</b>	<b>1</b>

**UNIFOX universal tools**

- UNIFOX ... VDE-totally-insulated combination pliers in straight and angled versions
- Ergonomic grip design to eliminate fatigue when working
- Excellent transmission ratios for excellent gripping and cutting performance
- Noticeably less force required on the part of the user



Combination pliers (VDE), straight



Combination pliers (VDE), angled

Ordering data		
Type	Order No.	Pcs. / Pkt.
UNIFOX-C VDE	1212202	1
UNIFOX-C VDE M	1212834	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
UNIFOX-CE VDE	1212203	1

Description	Color
Combination pliers, cross-notched gripping surface, integrated M8 - M10 ring wrench, VDE 1000 V AC/1500 V DC tested, size: 180 mm	black
Combination pliers, cross-notched gripping surface, integrated M8 - M10 ring wrench, VDE 1000 V AC/1500 V DC tested, size: 165 mm	black
Combination pliers, angled design, with opening spring and locking device, cross-notched gripping surface, integrated M8 - M10 ring wrench, VDE 1000 V AC/1500 V DC tested, size: 200 mm	black

**UNIFOX universal tools**

- Individually tested safety tools according to DIN EN 60900 (VDE 0682-201)
- For working on or in the vicinity of live parts up to 1000 V AC or 1500 V DC
- The tools feature ergonomic two-component safety handles



Needle-nose pliers (VDE), straight



Needle-nose pliers (VDE), curved and angled

Ordering data		
Type	Order No.	Pcs. / Pkt.
UNIFOX-P VDE	1212204	1
UNIFOX-PC VDE	1212205	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
UNIFOX-PE VDE	1212529	1

Description	Color
Needle-nose pliers with cutter, notched gripping surface, VDE 1000 V AC/1500 V DC tested, size: 170 mm	black
Needle-nose pliers with cutter, angled 45°, notched gripping surface, VDE 1000 V AC/1500 V DC tested, size: 170 mm	black
Needle-nose pliers, angled design, with opening spring and locking device, finely notched gripping surface, stripping possible for 1.5 mm <sup>2</sup> and 2.5 mm <sup>2</sup> , integrated M8 - M10 ring wrench, VDE 1000 V AC/1500 V DC tested, size: 200 mm	black

## Hand tools

### UNIFOX universal tools

- UNIFOX ... VDE-totally-insulated flat-nose, round-nose, and water pump pliers
- Notched grip areas
- Ergonomic grip design to eliminate fatigue when working
- Excellent transmission ratios for optimum gripping performance
- Forged die hardened in oil for maximum durability



Flat-nose pliers (VDE)



Water pump pliers

		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
<b>Flat-nose pliers</b> , finely notched gripping surface, VDE 1000 V AC/1500 V DC tested, size: 160 mm	black	UNIFOX-F VDE	1212363	1			
<b>Round-nose pliers</b> , finely notched gripping surface, VDE 1000 V AC/1500 V DC tested, size: 160 mm	black	UNIFOX-R VDE	1212364	1			
<b>Water pump pliers</b> , with groove joint, gripping surfaces with dual notching, acc. to VDE ISO 8976, size: 240 mm	black	UNIFOX-WP	1212365	1			

### UNIFOX cable binder tools for plastic and high-grade steel cable binders



- Ergonomic tool for attaching and detaching cable binders in a single operation
- The infinitely adjustable tension force is indicated by a scale in the handle area
- When the tension force is reached, the remainder is automatically severed for a flush finish



		Ordering data		
Description		Type	Order No.	Pcs. / Pkt.
<b>Cable binder pliers</b> , for plastic cable binders with a width of 2.2 - 4.8 mm, for a material thickness of up to 1.6 mm		UNIFOX-CT 4,8 UNIFOX-CT 4,8P	1212475 1212609	1 1
<b>Cable binder tool</b> , for steel cable binders with a width of up to 7.9 mm, material thickness of up to 0.3 mm		UNIFOX-CT M 7,9	1212610	1

**UNIFOX screw pliers**

- Screw wrench and pliers in one: zero-play grip and secure screwing of screws and nut areas
- Smooth jaws prevent the usual damage to screws and nuts from wrenches and pipe wrenches
- With quick-snap ratchet infeed for rapid adjustment to the workpiece without push button



Ordering data			
Description	Type	Order No.	Pcs. / Pkt.
Screw pliers, with rapid adjustment for wrench size 10 - 36 mm, 260 mm	UNIFOX-WRENCH	1212835	1

## Hand tools

### UNIFOX universal tools

- Compact, ergonomically shaped pliers
- 3 inserts for rivet diameter of 2.4 – 3.2 mm, 4 mm, and 4.8 – 5.0 mm
- Special rivets are available for fixing RW... and UW... high-current panel feed-through terminal blocks that are specifically designed for terminal blocks



Blind rivet pliers



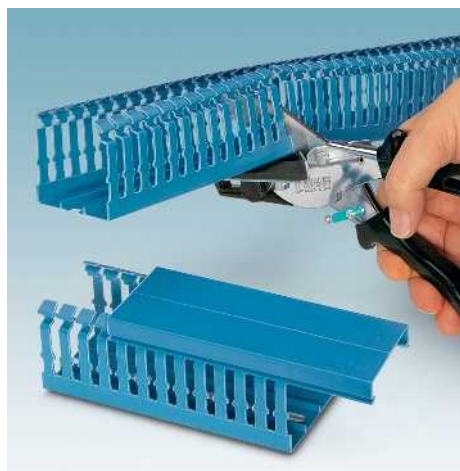
Blind riveting with diameters of 2.4 to 5 mm

ERC

		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
<b>Blind rivet pliers</b>	black	<b>UNIFOX-RVT M</b>	<b>1212476</b>	<b>1</b>			
<b>Rivet</b> , aluminum/steel, rivet diameter/length					<b>RVT-AL/ST 2,4L/8</b>	<b>3240548</b>	500
2.4/8 mm, for UW 4... terminal blocks	silver				<b>RVT-AL/ST 3/6</b>	<b>3240504</b>	500
3/6 mm	silver				<b>RVT-AL/ST 3/8</b>	<b>3240505</b>	500
3/8 mm	silver				<b>RVT-AL/ST 3/10</b>	<b>3240506</b>	500
3/10 mm	silver				<b>RVT-AL/ST 3/12</b>	<b>3240507</b>	500
3/12 mm, for UW 10..., UW 16..., and RW 5... terminal blocks	silver				<b>RVT-AL/ST 3,2/6</b>	<b>3240509</b>	500
3.2/6 mm	silver				<b>RVT-AL/ST 3,2/8</b>	<b>3240510</b>	500
3.2/8 mm	silver				<b>RVT-AL/ST 3,2/10</b>	<b>3240511</b>	500
3.2/10 mm	silver				<b>RVT-AL/ST 3,2/12</b>	<b>3240512</b>	500
3.2/12 mm	silver				<b>RVT-AL/ST 4/6</b>	<b>3240513</b>	500
4/6 mm	silver				<b>RVT-AL/ST 4/8</b>	<b>3240514</b>	500
4/8 mm	silver				<b>RVT-AL/ST 4/10</b>	<b>3240515</b>	500
4/10 mm	silver				<b>RVT-AL/ST 4/12</b>	<b>3240516</b>	500
4/12 mm	silver				<b>RVT-AL/ST 4/14</b>	<b>3240517</b>	500
4/14 mm, for UW 25... and RW 8... terminal blocks	silver				<b>RVT-AL/ST 4,8/6</b>	<b>3240518</b>	500
4.8/6 mm	silver				<b>RVT-AL/ST 4,8/8</b>	<b>3240519</b>	500
4.8/8 mm	silver				<b>RVT-AL/ST 4,8/10</b>	<b>3240520</b>	500
4.8/10 mm	silver				<b>RVT-AL/ST 4,8/12</b>	<b>3240521</b>	500
4.8/12 mm	silver				<b>RVT-AL/ST 4,8/14</b>	<b>3240553</b>	500
4.8/14 mm	silver				<b>RVT-AL/ST 4,8/16</b>	<b>3240522</b>	500
4.8/16 mm	silver						
		Accessories			Accessories		
<b>Rivet nozzle</b> , long, specially designed for 3240548 rivet		<b>UNIFOX-RVT M/BIT 2,4L</b>	<b>1212477</b>	<b>1</b>			



## Cable duct cutter

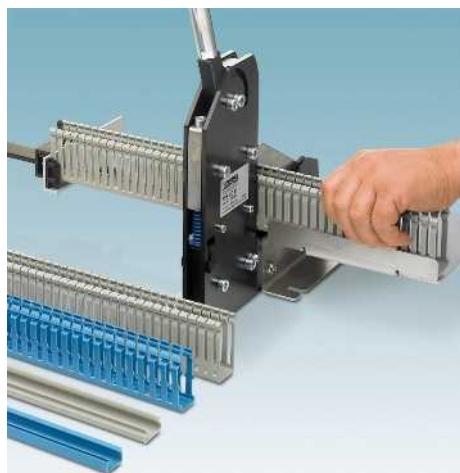


- Easy, burr-free cutting with minimum effort, thanks to the special cutting geometry and optimum leverage
- Non-slip ergonomic grip
- With spring reset
- 45° limit stop
- 75 mm cutting width



Dimensions		Technical data		
	[mm]	Width	Length	Height
		-	245	-
General data		0.43		
Weight	[kg]			
		Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.
Cable duct cutter	black	CUTFOX-CD	1212474	1

## Cable duct cutters



- Leverage and special cutting geometry enables easy, burr-free cutting with minimum effort
- Grip protection for safety
- Metric measuring rail with adjustable limit stop
- 125 mm cutting width
- Material thickness of up to 2.5 mm



Dimensions		Technical data		
	[mm]	Width	Length	Height
		285	280	290
General data				
Length of the measuring bar	[mm]	1000		
Length of the hand lever	[mm]	500		
Description	Color	Ordering data		
Cable duct cutters	black	Type	Order No.	Pcs. / Pkt.
		PPS CD M	1207569	1
Replacement blade, for PPS CD M		Accessories		
		PPS CD BLADE	1207572	1
		PPS CD M COHO	1208995	1
		PPS TABLE	1206285	1
Replacement counter support (grip protection), for PPS CD M				
Workbench, with plywood panel 700 x 1200 x 50 mm, without mounting screws and bore holes				

Hand tools

Profile cutters



DIN rail cutter

- The PPS BASIC I/M is the lightweight version of the profile cutters. It can process the common EN DIN rails NS 35/15, NS 35/7,5 and NS 15, and the NLS-CU 3/10 neutral busbar
- The PPS STANDARD ... and PPS CLASSIC ... can be equipped with two stamping bits for round holes or elongated holes
- The PPS CLASSIC ... is the best choice if hole formats are changed on a frequent basis. By simply folding open the upper part of the PPS..., the stamping bits can be changed in no time at all

Dimensions	
	[mm]
General data	
Weight	[kg]
Length of the measuring bar	[mm]
Length of the hand lever	[mm]

Technical data		
Width	Length	Height
150	60	180

Description	Color
<b>Profile cutter</b> , for cutting standard DIN rails to length, NS 15/NS 35/7,5/NS 35/15 and for cutting the NLS-CU 3/10 neutral busbar to length, with inch/metric measuring rail	black
<b>Profile cutter</b> , for cutting and stamping holes in standard DIN rails, NS 15/NS 32/NS 35/7,5/NS 35/15, and for cutting the NLS-CU 3/10 neutral busbar to length, can accommodate 2 stamping bits, with metric measuring rail, supplied without stamping bits	black
Same as before, but with inch/metric measuring rail	black
<b>Profile cutter</b> , for cutting and stamping holes in standard DIN rails, NS 15/NS 32/NS 35/7,5/NS 35/15, and for cutting the NLS-CU 3/10 neutral busbar to length, can accommodate 2 stamping bits, stamping bits are easily interchangeable, with metric measuring rail, supplied without stamping bits	black
Same as before, but with inch/metric measuring rail	black

Ordering data		
Type	Order No.	Pcs. / Pkt.
PPS BASIC I/M	1207585	1

<b>Stamping insert</b> , for elongated holes, longitudinal: 3.5 x 12 mm 4.5 x 12 mm 5.5 x 12 mm 6.5 x 15 mm
<b>Stamping insert</b> , for elongated holes, traverse: 3.5 x 12 mm 4.5 x 12 mm 5.5 x 12 mm 6.5 x 15 mm
<b>Stamping bit</b> , for bore holes 3.8 mm Ø 4.3 mm Ø 5.3 mm Ø 6.4 mm Ø 7.0 mm Ø 8.4 mm Ø
<b>Hydraulic cylinder</b> , for connection to an existing hydraulic system, operating pressure of 160 – 220 bar, G 1/4" connection thread, with spring reset
<b>Workbench</b> , with plywood panel 700 x 1200 x 50 mm, without mounting screws and bore holes

Accessories		
Type	Order No.	Pcs. / Pkt.
PPS TABLE	1206285	1



DIN rail cutter with bore hole die



DIN rail cutter with piercer and quick change mechanism

Technical data		
Width	Length	Height
180	100	220
19	1000	1000

Technical data		
Width	Length	Height
250	100	230
19	1000	1000

Ordering data		
Type	Order No.	Pcs. / Pkt.
PPS STANDARD M	1206175	1
PPS STANDARD I/M	1206230	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
PPS CLASSIC M	1206243	1
PPS CLASSIC I/M	1206256	1

Accessories		
Type	Order No.	Pcs. / Pkt.
PPS-ST (3,5X12)L	1203563	1
PPS-ST (4,5X12)L	1203534	1
PPS-ST (5,5X12)L	1202603	1
PPS-ST (6,5X15)L	1202593	1
PPS-ST (3,5X12)Q	1203550	1
PPS-ST (4,5X12)Q	1203547	1
PPS-ST (5,5X12)Q	1203411	1
PPS-ST (6,5X15)Q	1203408	1
PPS-ST (3,8)	1204892	1
PPS-ST (4,3)	1202616	1
PPS-ST (5,3)	1202629	1
PPS-ST (6,4)	1202632	1
PPS-ST (7,0)	1204889	1
PPS-ST (8,4)	1202726	1
PPS HYDRAULIC CYL	1208924	1
PPS TABLE	1206285	1

Accessories		
Type	Order No.	Pcs. / Pkt.
PPS-ST (3,5X12)L	1203563	1
PPS-ST (4,5X12)L	1203534	1
PPS-ST (5,5X12)L	1202603	1
PPS-ST (6,5X15)L	1202593	1
PPS-ST (3,5X12)Q	1203550	1
PPS-ST (4,5X12)Q	1203547	1
PPS-ST (5,5X12)Q	1203411	1
PPS-ST (6,5X15)Q	1203408	1
PPS-ST (3,8)	1204892	1
PPS-ST (4,3)	1202616	1
PPS-ST (5,3)	1202629	1
PPS-ST (6,4)	1202632	1
PPS-ST (7,0)	1204889	1
PPS-ST (8,4)	1202726	1
PPS TABLE	1206285	1

## Hand tools

### MICROFOX electronics pliers

- Various head shapes, even for areas that are difficult to access
- Precision-ground for exact cutting applications with minimum effort
- Mirror-polished and oiled metal surfaces
- Additional inductive hardened cutting for long-term, stable cutting performance

**Notes:**  
 Technical data regarding cutting capacity, see [phoenixcontact.net/products](http://phoenixcontact.net/products)



Diagonal cutter, with chamfer



Front cutter

Description
<b>Electronic diagonal cutter</b> , round head, with chamfer, with opening spring
<b>Electronic diagonal cutter</b> , tapered head, angled (21°), without chamfer, with opening spring
<b>Electronic diagonal cutter</b> , tapered head, without chamfer, with opening spring, non-reflective phosphate-treated surface, punched version
<b>Electronic front cutter</b> , without chamfer, with opening spring
<b>Electronic front cutter</b> , 20° angle, without chamfer, with opening spring

Ordering data		
Type	Order No.	Pcs. / Pkt.
MICROFOX-SB	1212489	1
MICROFOX-SP	1212488	1
MICROFOX-SP-1	1212487	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
MICROFOX-E	1212494	1
MICROFOX-EO	1212495	1

### MICROFOX electronic pliers

- Ergonomically designed two-component grip for fatigue-proof and non-slip use
- Opening spring for uniform, smooth opening
- Through-connected joint for permanent stability and optimum distribution of force
- Smooth grip to prevent damage to components when gripping and bending



Needle-nose pliers



Flat/round-nose pliers

Description
<b>Electronic needle-nose pliers</b> , smooth grip, with opening spring
<b>Electronic needle-nose pliers</b> , 45° angle, smooth grip, with opening spring
<b>Electronic flat-nose pliers</b> , smooth grip, with opening spring
<b>Electronic round-nose pliers</b> , smooth grip, with opening spring

Ordering data		
Type	Order No.	Pcs. / Pkt.
MICROFOX-P	1212491	1
MICROFOX-PC	1212492	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
MICROFOX-F	1212493	1
MICROFOX-R	1212490	1

**MICROFOX ESD electronics pliers**

- Mirror-polished and phosphate-treated metal surfaces for optimum corrosion protection and no glare when working
- Various head shapes, even for areas that are difficult to access
- Screwed precision-joint
- Precision-ground for exact cutting applications



**Notes:**  
 Technical data regarding cutting capacity, see [phoenixcontact.net/products](http://phoenixcontact.net/products)

Ordering data		
Type	Order No.	Pcs. / Pkt.
MICROFOX-S ESD	1212480	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
MICROFOX-E ESD	1212485	1

Description
ESD electronic diagonal cutter, round head, without chamfer, with opening spring
ESD electronic front cutter, without chamfer, with opening spring

**MICROFOX ESD electronic pliers**

- Special conductive, ESD-compliant plastics according to, for example: DIN EN 61340-5
- Ergonomically designed two-component handles for fatigue-proof and non-slip use
- Opening spring for uniform, smooth opening
- Smooth grip to prevent damage to components when gripping and bending



Ordering data		
Type	Order No.	Pcs. / Pkt.
MICROFOX-P ESD	1212482	1
MICROFOX-PC ESD	1212483	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
MICROFOX-F ESD	1212484	1
MICROFOX-R ESD	1212481	1

Description
ESD electronic needle-nose pliers, smooth grip, with opening spring
ESD electronic needle-nose pliers, 45° angle, smooth grip, with opening spring
ESD electronic flat-nose pliers, smooth grip, with opening spring
ESD electronic round-nose pliers, smooth grip, with opening spring

## Hand tools

### WIREFOX stripping tools

- Ergonomically shaped pliers
- WIREFOX ... stripping pliers feature an automatic adjustment mechanism for a wide range of different types of insulation and conductor sizes
- Practical integrated wire cutter
- Flexible, adjustable conductor limit stop
- The blade cartridges can be replaced quickly and easily and can be combined with one another



0.08 - 2.5 mm<sup>2</sup> conductor cross section



Conductor cross section of 0.1 - 4 mm<sup>2</sup> for special conductors

ERIC

		Technical data			Technical data		
Conductor/cable stripping range							
Conductor / cable	[mm <sup>2</sup> ] / AWG	0.08 - 2.5 / 28 - 12			0.1 - 4 / 28 - 12		
Stripping length up to ...	[mm]	15			18		
Wire cutter solid // stranded	[mm <sup>2</sup> ] / AWG	2.5 / 14 // 6 / 10			1.5 / 16 // 10 / 8		
		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
<b>Stripping tool</b> , angled design, for cables and conductors with a cross section of 0.08 mm – 2.5 mm <sup>2</sup> , self-adjusting, stripping length of up to 15 mm, cutting capacity: solid up to 2.5 mm <sup>2</sup> , stranded up to 6 mm <sup>2</sup>							
	black	WIREFOX 2,5	1212368	1			
<b>Stripping tool</b> , angled shape, for cables and conductors (specifically also intended for rubber and other kinds of special insulation) from 0.1 mm – 4 mm <sup>2</sup> , self-adjusting, stripping length of up to 18 mm, cutting capacity: solid up to 1.5 mm <sup>2</sup> , stranded up to 10 mm <sup>2</sup>							
	Black/green				WIREFOX-E 4	1212704	1
<b>Stripping tool</b> , angled shape, for cables and conductors (specifically also intended for short-circuit-proof cables) from 1.5 mm – 6 mm <sup>2</sup> , self-adjusting, stripping length of up to 18 mm, cutting capacity: solid up to 1.5 mm <sup>2</sup> , stranded up to 10 mm <sup>2</sup>							
	Black/green						
<b>Stripping tool</b> , angled design, for cables and conductors from 0.02 mm – 10 mm <sup>2</sup> , self-adjusting, stripping length of up to 18 mm, cutting capacity: solid up to 1.5 mm <sup>2</sup> , stranded up to 10 mm <sup>2</sup>							
	Black/green						
<b>Stripping tool</b> , angled design, for cables and conductors from 4 mm – 16 mm <sup>2</sup> , self-adjusting, stripping length of up to 18 mm, cutting capacity: solid up to 1.5 mm <sup>2</sup> , stranded up to 10 mm <sup>2</sup>							
	Black/green						
		Accessories			Accessories		
Replacement blade cartridge		WIREFOX 2,5/SB	1212369	1	WIREFOX 4/SB	1212151	1
Spare limit stop		WIREFOX 2,5/WS	1212370	1			



Conductor cross section of 1.5 - 6 mm<sup>2</sup> for short-circuit-proof cables



0.02 - 10 mm<sup>2</sup> conductor cross section



4 - 16 mm<sup>2</sup> conductor cross section

Technical data
1.5 - 6 / 16 - 8
18
1.5 / 16 // 10 / 8

Technical data
0.02 - 10 / 34 - 8
18
1.5 / 16 // 10 / 8

Technical data
4 - 16 / 12 - 5
18
1.5 / 16 // 10 / 8

Ordering data		
Type	Order No.	Pcs. / Pkt.
WIREFOX-E 6SC	1212705	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
WIREFOX-E 10	1212706	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
WIREFOX-E 16	1212707	1

Accessories		
WIREFOX 6SC/SB	1212314	1

Accessories		
WIREFOX 10/SB	1212152	1

Accessories		
WIREFOX 16/SB	1212153	1

WIREFOX stripping tools



- Ergonomically shaped pliers
- Anti-slip handle design provides a safe and comfortable grip
- WIREFOX ... stripping pliers feature an automatic adjustment mechanism for a wide range of different types of insulation and conductor sizes
- Practical integrated wire cutter
- Highly adjustable limit stop for the stripping length
- The blade cartridges can be replaced quickly and easily and can be combined with one another



Conductor cross section 0.1 - 4 mm<sup>2</sup> for special conductors

ERC

Conductor/cable stripping range	
Conductor / cable	[mm <sup>2</sup> ] / AWG
Stripping length up to ...	[mm]
Wire cutter solid // stranded	[mm <sup>2</sup> ] / AWG

Technical data	
Conductor / cable	0.1 - 4 / 28 - 12
Stripping length up to ...	18
Wire cutter solid // stranded	1.5 / 16 // 10 / 8

Description	Color
<b>Stripping tool</b> , for cables and conductors (specifically also intended for rubber and other kinds of special insulation) with a cross section of 0.1 – 4 mm <sup>2</sup> , self-adjusting, stripping length of up to 18 mm, cutting capacity: solid up to 1.5 mm <sup>2</sup> , stranded up to 10 mm <sup>2</sup>	Black/green
<b>Stripping tool</b> , for lines and conductors (specially for short-circuit-proof lines) of 1.5 - 6 mm <sup>2</sup> , self-adjusting, stripping length of up to 18 mm, cutting capacity: solid up to 1.5 mm <sup>2</sup> , stranded up to 10 mm <sup>2</sup>	Black/green
<b>Stripping tool</b> , for 0.02 - 10 mm <sup>2</sup> cables and conductors, self-adjusting, stripping length up to 18 mm, cutting capacity: solid up to 1.5 mm <sup>2</sup> , stranded up to 10 mm <sup>2</sup>	Black/green
<b>Stripping tool</b> , for wires and conductors of 4 - 16 mm <sup>2</sup> , self-aligned, stripping length up to 18 mm, cutting capacity: Solid up to 1.5 mm <sup>2</sup> , stranded up to 10 mm <sup>2</sup>	Black/green

Ordering data		
Type	Order No.	Pcs. / Pkt.
WIREFOX 4	1212156	1

Replacement blade cartridge
-----------------------------

Accessories		
WIREFOX 4/SB	1212151	1





Conductor cross section of 1.5 - 6 mm<sup>2</sup> for short-circuit-proof cables



0.02 - 10 mm<sup>2</sup> conductor cross section



4 - 16 mm<sup>2</sup> conductor cross section

ERC

ERC

ERC

Technical data		
1.5 - 6 / 16 - 8		
18		
1.5 / 16 // 10 / 8		

Technical data		
0.02 - 10 / 34 - 8		
18		
1.5 / 16 // 10 / 8		

Technical data		
4 - 16 / 12 - 5		
18		
1.5 / 16 // 10 / 8		

Ordering data		
Type	Order No.	Pcs. / Pkt.

Ordering data		
Type	Order No.	Pcs. / Pkt.

Ordering data		
Type	Order No.	Pcs. / Pkt.

WIREFOX 6SC	1212158	1
-------------	---------	---

WIREFOX 10	1212150	1
------------	---------	---

WIREFOX 16	1212155	1
------------	---------	---

Accessories		
WIREFOX 6SC/SB	1212314	1

Accessories		
WIREFOX 10/SB	1212152	1

Accessories		
WIREFOX 16/SB	1212153	1

## Hand tools

### WIREFOX stripping tools

- WIREFOX ... stripping pliers feature an automatic adjustment mechanism for a wide range of different types of insulation and conductor sizes
- Special blade geometries for various applications
- Precise and clean stripping results
- Any stripping lengths possible, thanks to the special design of the pliers



For sensor/actuator cables (SAC cables)



For both shielded and unshielded cables

		ERC			ERC		
		Technical data			Technical data		
Conductor/cable stripping range							
Conductor / cable		[mm <sup>2</sup> ] / AWG			6 - 16 / 10 - 5		
					- / -		
		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
<b>Stripping pliers</b> , for cables and conductors with a cross section of 6 – 16 mm <sup>2</sup> , self-adjusting, any stripping length, also suitable for sensor/actuator cables	black	WIREFOX 16-1	1212157	1			
<b>Stripping pliers</b> , for halogen-free sensor/actuator cables (SAC cables), with PUR and PVC insulation, for diameters from 4.4 mm to 7 mm, any stripping length	black	WIREFOX SAC	1212623	1			
<b>Stripping pliers</b> , for halogen-free sensor/actuator cables (SAC cables), with PUR and PVC insulation, from 3.2 mm to 4.4 mm diameter, any stripping length	black	WIREFOX SAC-1	1212757	1			
<b>Stripping pliers</b> , for removing jackets from cables for cable cutouts, cable tap-offs, and shield connections with a diameter of 8 - 9 mm, insulation thickness of up to 1.2 mm, stripping lengths of 20 mm and above	black				WIREFOX-D SHIELD	1212172	1
<b>Stripping pliers</b> , for 0.75 - 2.5 mm <sup>2</sup> flat cables up to 15 mm wide, any stripping length	black						
<b>Stripping pliers</b> , for AS interface flat wires, any desired stripping length	black						
<b>Stripping pliers</b> , for stripping conductors with a cross section of up to 10 mm <sup>2</sup> , VDE-tested	black						
<b>Multifunction stripping tool</b> , for removing the jacket from cables with a diameter of 8 to 13 mm, for stripping cables with a cross section of 0.2 to 10 mm <sup>2</sup> , with full-fledged diagonal cutter, VDE 1000 V AC/1500 V DC tested	black						
		Accessories			Accessories		
Spare knife		WIREFOX 16-1/SB	1204944	1			



WIREFOX stripping tools



- Large selection of precision stripping tools
- The right tool for every application
- Possible to strip conductors and cables with all kinds of insulation up to a diameter of 40 mm
- The blades are precision-ground and are designed for long-term stable use
- Quick, easy, and reliable to use



Conductor diameter of 2.5 - 11 mm

ERC

Description	Color
<b>Stripping tool</b> , for stripping multicore signal, control and fiberglass wires of 2.5 - 11-mm-Ø, insulation thickness up to 1 mm	black
<b>Stripping tool</b> , for stripping installation wires with 8 - 13 mm-Ø, for example, NYM 3x1.5 mm <sup>2</sup> to NYM 5x2.5 mm <sup>2</sup> , single-wire stripping, 0.2 - 4 mm <sup>2</sup> , with blade for lateral cutting and extendable knife	black
<b>Stripping tool</b> , for stripping wires (especially fiber optics wires) of 4 - 16-mm-Ø	black
<b>Stripping tool</b> , for stripping wires of 8 - 28-mm-Ø	black
<b>Stripping tool</b> , for stripping conductors of 4.5 - 40-mm-Ø, insulation strength up to 4.5 mm, swiveling knife for round, longitudinal and spiral cuts	black

Ordering data		
Type	Order No.	Pcs. / Pkt.
WIREFOX-D 11	1212160	1

Accessories		
Type	Order No.	Pcs. / Pkt.
Spare knife WIREFOX-D 11/SB	1212312	1



Conductor diameter of 8 - 13 mm



Conductor diameter of 4.5 - 40 mm

ERC

ERC

Ordering data		
Type	Order No.	Pcs. / Pkt.
WIREFOX-D 13	1212162	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
WIREFOX-D 16	1212173	1
WIREFOX-D 28	1212174	1
WIREFOX-D 40	1212161	1

Accessories		

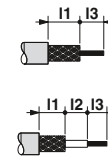
Accessories		
WIREFOX-D 40/SB	1212313	1

Hand tools

WIREFOX stripping tools



- Large selection of precision stripping tools
- The right tool for every application
- Possible to strip conductors and cables with all kinds of insulation up to a diameter of 40 mm
- Easy to use
- Use of high-quality components for durability



For coaxial cables, conductor diameter of 2.5 - 7.6 mm

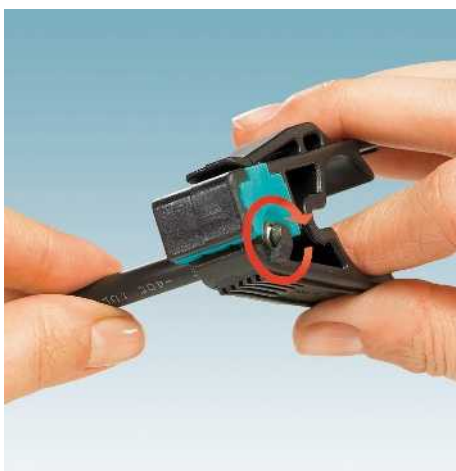
ERC

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
<b>Stripping tool</b> , for coaxial cables from 2.5 - 7.6 mm Ø, I3 = variable				
2-stage, setting dimension I1 = 6.0 mm	black	WIREFOX-D CX-1	1212163	1
2-stage, setting dimension I1 = 9.2 mm	black	WIREFOX-D CX-2	1212164	1
2-stage, setting dimension I1 = 12 mm	black	WIREFOX-D CX-3	1212165	1
2-stage, setting dimension I1 = 6.8 mm	black	WIREFOX-D CX-4	1212166	1
3-stage, setting dimension I1 = 5.5 mm, I2 = 5.5 mm	black	WIREFOX-D CX-5	1212167	1
3-stage, strip-off dimension I1 = 8.3 mm, I2 = 2.7 mm	black	WIREFOX-D CX-6	1212168	1
3-stage, setting dimension I1 = 6.0 mm, I2 = 6.0 mm	black	WIREFOX-D CX-7	1212169	1
3-stage, strip-off dimension I1 = 6.8 mm, I2 = 2.5 mm	black	WIREFOX-D CX-8	1212170	1
3-stage, strip-off dimension I1 = 7.5 mm, I2 = 3.5 mm	black	WIREFOX-D CX-9	1212171	1
<b>Stripping tool</b> , for standard 2.5, 4, and 6 mm <sup>2</sup> solar cables, with 15 mm length stop, for SUNCLIX field connectors	black			
<b>Stripping tool</b> , for 2.5 - 6 mm <sup>2</sup> solar cables, 8.5 mm stripping length, for MC3, MC4 and SOLARLOK contacts	black			
<b>Stripping tool</b> , for CATV type F, stripping length: 6.35 mm	black			

Accessories

Spare knife	Type	Order No.	Pcs. / Pkt.
	WIREFOX-D CX-1/SB	1212303	1
	WIREFOX-D CX-2/SB	1212304	1
	WIREFOX-D CX-3/SB	1212305	1
	WIREFOX-D CX-4/SB	1212306	1
	WIREFOX-D CX-5/SB	1212307	1
	WIREFOX-D CX-6/SB	1212308	1
	WIREFOX-D CX-7/SB	1212309	1
	WIREFOX-D CX-8/SB	1212310	1
	WIREFOX-D CX-9/SB	1212311	1



new



For solar cables, conductor cross section of 2.5 - 6 mm<sup>2</sup>



For coaxial cables, RG 59 and RG 6

ERIC

Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
WIREFOX-D SR 6-1	1212511	1			
WIREFOX-D SR 6	1212507	1			
			WIREFOX-D CX 6,35	1212733	1
Accessories			Accessories		

Hand tools

**CRIMPHANDY, portable hand-held machine, for a 1.0 mm<sup>2</sup> conductor cross section**



The product innovation for switchgear manufacturing – the Crimphandy. You can strip and crimp your conductors in under two seconds using this portable hand-held device – in 75% less time than before.

- The Crimphandy impresses with its easy, effortless handling, which helps protect your joints and tendons
- The compact lightweight tool is ideal for mobile use in the field. Up to 2000 crimping operations can be performed, thanks to the high-performance lithium-ion polymer battery
- Automatic cross section monitoring prevents faulty crimping as a result of incorrect conductor sizes
- The attachable waste receptacle catches the discarded insulation and thereby helps to ensure a clean working environment

**Notes:**  
An application video can be found in the download area for the relevant product on our website at phoenixcontact.net/products.



1.0 mm<sup>2</sup> conductor cross section

Dimensions	
	[mm]
General data	
Weight	[kg]
Conductor	[mm <sup>2</sup> ] / AWG
Working cycle	[s]
Compression	

Technical data		
Width	Length	Height
43	205	70
0.43	- 1 / -	< 2
Square crimp		

Description	
<b>Portable hand-held machine, battery-powered</b> , for ferrules, 1.0 mm <sup>2</sup> , incl. battery and charger, 100 -240 V, in a robust case	
For standard PVC conductors (class 5)	

Ordering data		
Type	Order No.	Pcs. / Pkt.
CF CRIMPHANDY 1,0	1212465	1

<b>Reel ferrules</b> , 1.0 mm <sup>2</sup> , 8 mm, with plastic sleeve, according to DIN 46228-4, 50 pieces per strip, 20 strips per unit pack
Red, according to DIN 46228-4 and NF C 63-023: 1994-02
Yellow, special color, according to DIN 46228-4 and NF C 63-023: 1994-02
<b>Replacement battery</b> , for CF Crimphandy..., Li-ion 7.4 V, 0.68 Ah
<b>Replacement charger</b> , for CF CRIMPHANDY..., 100 -240 V AC
<b>Receptacle tray</b> for CF-CRIMPHANDY
<b>Replacement service tool</b> , for CF-CRIMPHANDY 1.0

Accessories		
Type	Order No.	Pcs. / Pkt.
AI 1,0-8 RD-S	1212523	1000
AI 1,0-8 YE-S	1212782	1000
CF CRIMPHANDY/ACCU	1212518	1
CF CRIMPHANDY/CHARGER	1212519	1
CF CRIMPHANDY/COVER	1212709	1
CF CRIMPHANDY 1,0/SERVICE-TOOL	1212759	1





## CRIMPHANDY, portable hand-held machine, for a 1.5 mm<sup>2</sup> conductor cross section



The product innovation for switchgear manufacturing – the Crimphandy. You can strip and crimp your conductors in under two seconds using this portable hand-held device – in 75% less time than before.

- Ferrules are automatically fed in, in strip form, via the integrated magazine, enabling multiple conductors to be crimped one after another without interruption
- The sleeves can be reloaded within a matter of seconds. The special sleeves with function end prevent incorrect insertion

The square crimp mold is ideal for the terminal blocks from the CLIPLINE complete system

- UT... screw connection terminal blocks
- ST... spring-cage connection terminal blocks
- PT... push-in connection terminal blocks
- COMBI plug-in connection solutions

### Notes:

An application video can be found in the download area for the relevant product on our website at [phoenixcontact.net/products](http://phoenixcontact.net/products).



1.5 mm<sup>2</sup> conductor cross section

### Dimensions

[mm]

### General data

Weight	[kg]	0.43
Conductor	[mm <sup>2</sup> ] / AWG	- 1.5 / -
Working cycle	[s]	< 2
Compression		Square crimp

### Description

**Portable hand-held machine, battery-powered**, for ferrules, 1.5 mm<sup>2</sup>, incl. battery and charger, 100 - 240 V, in a robust case

For standard PVC conductors (class 5)

**Reel ferrules**, 1.5 mm<sup>2</sup>, 8 mm, with plastic sleeve, according to DIN 46228-4, 50 pieces per strip, 20 strips per unit pack

Black, according to DIN 46228-4 and NF C 63-023: 1994-02

Red, special color, according to DIN 46228-4 and NF C 63-023: 1994-02

**Replacement battery**, for CF Crimphandy..., Li-ion 7.4 V, 0.68 Ah

**Replacement charger**, for CF CRIMPHANDY..., 100 - 240 V AC

**Receptacle tray** for CF-CRIMPHANDY

**Service tool**, for CF-CRIMPHANDY 1,5, for rectifying malfunctions

### Technical data

Width	Length	Height
43	205	70

### Ordering data

Type	Order No.	Pcs. / Pkt.
CF CRIMPHANDY 1,5	1212466	1

### Accessories

AI 1,5-8 BK-S	1212524	1000
AI 1,5-8 RD-S	1212781	1000
CF CRIMPHANDY/ACCU	1212518	1
CF CRIMPHANDY/CHARGER	1212519	1
CF CRIMPHANDY/COVER	1212709	1
CF CRIMPHANDY 1,5/SERVICE-TOOL	1212708	1



## Hand tools

### CRIMPFOX 4 IN 1 multi-functional crimping pliers



- The multi-functional CRIMPFOX 4 IN 1 crimping pliers are used to process taped ferrules according to DIN 46228-4
- 4 functions combined in a single tool: cutting, stripping, twisting, and crimping
- An effective handling process enables all steps to be performed without putting the tool down



- Fitted with a releasing pressure lock, the pliers provide consistently high-quality crimping and are therefore ideal for industrial use



- The robust stripping unit with its special blade geometry provides permanently consistent stripping results
- Length and cross section settings are not necessary
- In order to re-establish the twist which is lost during the stripping process, a twisting system is included



- The cross section can be conveniently changed in a matter of seconds by replacing the magazine which is loaded with taped product

#### Application range

Conductor	[mm <sup>2</sup> ] / AWG
Compression	

#### Description

**Tool** for processing ferrules with cutting, stripping, twisting, and crimping unit, with one magazine

**Tool** for processing ferrules with cutting, stripping, twisting, and crimping unit, with three magazines, including one strip each of ferrules from 0.5 mm<sup>2</sup> - 2.5 mm<sup>2</sup>, packaged in a robust plastic case

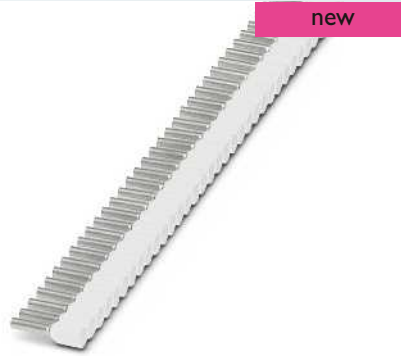
Taped ferrules, 0.5 mm<sup>2</sup>, sleeve length: 8 mm, with plastic collar, according to DIN 46228-4, white, for processing with the CRIMPFOX 4 IN 1, 10 strips each with 50 sleeves per strip

10 strips each with 40 sleeves per strip blue

**Ferrule magazine** for CRIMPFOX 4 IN 1, for ferrules with insulating collars from 0.5 - 2.5 mm with a length of 8 mm



Multi-functional ferrule crimping pliers



Conductor cross section of 0.5 - 2.5 mm<sup>2</sup>

Technical data
0.5 - 2.5 / 20 - 14 Indent crimp

Technical data
- / - -

Ordering data		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX 4 IN 1	1200101	1
CRIMPFOX 4 IN 1 SET	1200102	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
Al 0,5-8 WH S1	1200104	500
Al 0,75-8 GY S1	1200105	500
Al 1,0-8 RD S1	1200106	500
Al 1,5-8 BK S1	1200107	500
Al 2,5-8 BU S1	1200108	400

Accessories		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX 4 IN 1/MAG	1200103	1

Accessories		
Type	Order No.	Pcs. / Pkt.

Hand tools

**CRIMPFOX** crimping pliers for ferrules



- Extensive range of crimping pliers
- All ferrules can be optimally crimped with a minimum amount of effort even in the case of large conductor cross sections
- Consistently high crimping quality thanks to the integrated pressure lock
- Marked die stations for precise processing of corresponding cross sections



0.25 - 2.5 mm<sup>2</sup> conductor cross section

Application range	
Conductor	[mm <sup>2</sup> ] / AWG
Compression	

Description
<b>Crimping pliers</b> , compact pliers, for ferrules according to DIN 46228-1 and DIN 46228-4, unlockable pressure lock, lateral entry

<b>Crimping pliers</b> , for ferrules as per DIN 46228-1 and DIN 46228-4, five marked die stations, pressure lock can be released, lateral entry
--

<b>Crimping pliers</b> , compact pliers, for ferrules according to DIN 46228-1 and DIN 46228-4, unlockable pressure lock, lateral entry
---

<b>Crimping pliers</b> , compact pliers, for ferrules according to DIN 46228-1 and DIN 46228-4, unlockable pressure lock, lateral entry
---

Replacement die
<b>Replacement recuperating spring</b>

Technical data	
Conductor	0.25 - 2.5 / 24 - 12
Compression	Trapezoidal crimp

Ordering data		
Type	Order No.	Pcs. / Pkt.
<b>CRIMPFOX 2,5-M</b>	<b>1212719</b>	<b>1</b>

Accessories		
<b>CRIMPFOX/ SPR-1</b>	<b>1212069</b>	<b>1</b>



Conductor cross section of 0.25 - 6 mm<sup>2</sup>



0.25 - 6 mm<sup>2</sup> conductor cross section



4 - 10 mm<sup>2</sup> conductor cross section

ERIC

Technical data		
0.25 - 6 / 24 - 10		
Trapezoidal crimp		

Ordering data		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX 6	1212034	1

Accessories		
CRIMPFOX 6/DIE	1212035	1
CRIMPFOX/ SPR-3	1212036	1

Technical data		
0.25 - 6 / 24 - 10		
Trapezoidal crimp		

Ordering data		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX 6-M	1212720	1

Accessories		
CRIMPFOX/ SPR-1	1212069	1

Technical data		
4 - 10 / 12 - 8		
Trapezoidal crimp		

Ordering data		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX 10	1212721	1

Accessories		
CRIMPFOX/ SPR-1	1212069	1

## Hand tools

### CRIMPFOX crimping pliers for ferrules

- Extensive range of crimping pliers
- All ferrules can be optimally crimped with a minimum amount of effort even in the case of large conductor cross sections
- Consistently high crimping quality, thanks to the integrated pressure lock

#### CRIMPFOX 6T-F

- Self-adjusting die automatically adapts to the connector size
- Bound to impress, thanks to the quick and reliable contact processing method
- Ergonomically designed handles ensure an optimum grip and help avoid fatigue when working



Conductor cross section of 0.25 - 6 mm<sup>2</sup>

ERC

Application range	
Conductor	[mm <sup>2</sup> ] / AWG
Compression	

Technical data	
Conductor	0.25 - 6 / 24 - 10
Compression	Trapezoidal crimp

Description
<b>Crimping pliers</b> , for ferrules as per DIN 46228-1 and DIN 46228-4, self-adjusting die, pressure lock can be released, lateral entry
<b>Crimping pliers</b> , for ferrules as per DIN 46228-1 and DIN 46228-4, self-adjusting die, pressure lock can be released, front entry
<b>Crimping pliers</b> , for ferrules as per DIN 46228-1 and DIN 46228-4, self-adjusting die, pressure lock can be released, front entry

Ordering data		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX 6T	1212037	1

Replacement recuperating spring

Accessories		
CRIMPFOX/ SPR-1	1212069	1



Conductor cross section of 0.25 - 6 mm<sup>2</sup>



Conductor cross section of 0.5 - 6 mm<sup>2</sup>

ERC

ERC

Technical data		
0.25 - 6 / 24 - 10 Trapezoidal crimp		
Ordering data		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX 6T-F	1212038	1
Accessories		
CRIMPFOX/ SPR-1	1212069	1

Technical data		
0.5 - 6 / 20 - 10 Square crimp		
Ordering data		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX 6S-F	1212043	1
Accessories		
CRIMPFOX/ SPR-3	1212036	1

## Hand tools

### CRIMPFOX crimping pliers for ferrules

- These compact crimping pliers have been designed to reduce effort when working
- Self-adjusting die automatically adapts to the connector size

**Notes:**  
For corresponding ferrules, see from page 444.



Conductor cross section of 0.14 - 10 mm<sup>2</sup>



Conductor cross section of 0.14 - 6 mm<sup>2</sup>

ERC

Application range	
Conductor	[mm <sup>2</sup> ] / AWG
Compression	
Description	
Crimping pliers, for ferrules as per DIN 46228, 0.14 – 10 mm <sup>2</sup> , pressure lock can be released, lateral entry	
Crimping pliers, for ferrules as per DIN 46228, 0.14 – 6 mm <sup>2</sup> , pressure lock can be released, lateral entry	
Replacement recuperating spring	

Technical data		
0.14 - 10 / 25 - 7 Square crimp		
Ordering data		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX 10S	1212045	1
Accessories		
CRIMPFOX/SPR-2	1212047	1

ERC

Technical data		
0.14 - 6 / 25 - 10 HEX crimp		
Ordering data		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX 6H	1212046	1
Accessories		
CRIMPFOX/SPR-2	1212047	1



### CRIMPFOX crimping pliers for ferrules

- These crimping pliers can be used to process ferrules measuring up to 50 mm<sup>2</sup>
- Ergonomically designed handles ensure an optimum grip and reduce the amount of force required by 25 percent

**Notes:**  
For corresponding ferrules, see from page 444.



Conductor cross section of 10 - 25 mm<sup>2</sup>



Conductor cross section of 35 - 50 mm<sup>2</sup>

ERC

Technical data		
Application range		
Conductor	[mm <sup>2</sup> ] / AWG	
Compression		
Description		
Crimping pliers, for ferrules as per DIN 46228-1 and DIN 46228-4, three marked die stations, pressure lock can be released, lateral entry		
Crimping pliers, for ferrules as per DIN 46228-1 and DIN 46228-4, two marked die stations, pressure lock can be released, lateral entry		
Ordering data		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX 25R	1212039	1
Accessories		
CRIMPFOX 25R/DIE	1212040	1
CRIMPFOX/ SPR-1	1212069	1

ERC

Technical data		
Application range		
Conductor	[mm <sup>2</sup> ] / AWG	
Compression		
Description		
Crimping pliers, for ferrules as per DIN 46228-1 and DIN 46228-4, two marked die stations, pressure lock can be released, lateral entry		
Ordering data		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX 50R	1212041	1
Accessories		
CRIMPFOX 50R/DIE	1212042	1
CRIMPFOX/ SPR-1	1212069	1

## Hand tools

### CRIMPFOX crimping pliers for cable lugs and connectors

- Consistently high crimping quality, thanks to the pressure lock. It is released as soon as the required crimping pressure is reached, therefore ensuring sufficient pressure is applied
- The color coded dies clearly indicate the cross section



Conductor cross section of 0.14 - 1 mm<sup>2</sup>



Conductor cross section of 0.5 - 2.5 mm<sup>2</sup>

**Notes:**  
 Suitable ferrules, cable lugs and flat connectors have been documented, see from page 444.  
 For replacement dies and retaining springs, go to the product area on the website at phoenixcontact.net/products.

ERC

ERC

Application range	Technical data			Technical data		
	Conductor	[mm <sup>2</sup> ] / AWG	Compression	Conductor	[mm <sup>2</sup> ] / AWG	Compression
Conductor			0.14 - 1 / 26 - 18	0.5 - 2.5 / 20 - 14		
Compression			Oval crimp	Oval crimp		
Description	Ordering data			Ordering data		
	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
<b>Crimping pliers</b> , for insulated cable lugs (light green, red), three marked die stations, pressure lock can be released, lateral entry	CRIMPFOX-RCI 1	1212055	1			
<b>Crimping pliers</b> , compact pliers, for insulated cable lugs (light green, red), three marked die stations, unlockable pressure lock, lateral entry						
<b>Crimping pliers</b> , for insulated cable lugs (red, blue), two marked die stations, pressure lock can be released, lateral entry	CRIMPFOX-RCI 1-M	1212727	1			
<b>Crimping pliers</b> , compact pliers, for insulated cable lugs (red, blue), two marked die stations, unlockable cable lug, lateral entry				CRIMPFOX-RCI 2,5	1212053	1
<b>Crimping pliers</b> , for insulated cable lugs symmetric (red, blue, yellow), three marked die stations, pressure lock can be released, lateral entry				CRIMPFOX-RCI 2,5-M	1212728	1
<b>Crimping pliers</b> , compact pliers, for symmetrical insulated cable lugs (red, blue, yellow), three marked die stations, unlockable pressure lock, lateral entry						
<b>Crimping pliers</b> , compact pliers, for symmetrical insulated DIN cable lugs (red, blue, yellow), three marked die stations, unlockable pressure lock, lateral entry						
<b>Crimping pliers</b> , for insulated cable lugs asymmetric (red, blue, yellow), three marked die stations, pressure lock can be released, lateral entry						
<b>Crimping pliers</b> , compact pliers, for fully insulated shrink connectors (red, blue, yellow), three marked die stations, unlockable pressure lock, lateral entry						



Conductor cross section of 0.5 - 6 mm<sup>2</sup>



Conductor cross section of 0.5 - 6 mm<sup>2</sup>



Conductor cross section of 0.5 - 6 mm<sup>2</sup>

ERC

ERC

Technical data
0.5 - 6 / 20 - 10 Oval crimp

Technical data
0.5 - 6 / 20 - 10 Oval crimp

Technical data
0.5 - 6 / 20 - 10 Oval crimp

Ordering data		
Type	Order No.	Pcs. / Pkt.

Ordering data		
Type	Order No.	Pcs. / Pkt.

Ordering data		
Type	Order No.	Pcs. / Pkt.




CRIMPFOX-RCI 6	1212057	1
CRIMPFOX-RCI 6-M	1212730	1
CRIMPFOX-RCI DIN 6	1212729	1



CRIMPFOX-RCI 6-1	1212059	1

CRIMPFOX-HS 6	1212722	1

## Hand tools

### CRIMPFOX crimping pliers for non-insulated cable lugs

- For processing non-insulated cable lugs
- Compact and lightweight design
- Unlockable pressure lock
- Marked die stations for precise processing of the relevant cross sections

<b>Notes:</b>
Suitable ferrules, cable lugs and flat connectors have been documented, see from page 444.
For replacement dies and retaining springs, visit <a href="http://phoenixcontact.net/products">phoenixcontact.net/products</a>



Conductor cross section of 0.35 - 2.5 mm<sup>2</sup>



Conductor cross section of 0.5 - 6 mm<sup>2</sup>

ERC

	Technical data			Technical data		
<b>Application range</b>						
Conductor	[mm <sup>2</sup> ] / AWG	0.35 - 2.5 / 22 - 14	Indent crimp	0.5 - 6 / 20 - 10	Indent crimp	
Compression						
	Ordering data			Ordering data		
<b>Description</b>	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
<b>Crimping pliers</b> , for non-insulated cable lugs, three marked die stations, pressure lock can be released, lateral entry	CRIMPFOX-RC 2,5	1212063	1			
<b>Crimping pliers</b> , compact pliers, for uninsulated cable lugs, three marked die stations, unlockable pressure lock, lateral entry	CRIMPFOX-RC 2,5-M	1212723	1			
<b>Crimping pliers</b> , compact pliers, for uninsulated cable lugs, two marked die stations, unlockable pressure lock, lateral entry				CRIMPFOX-RC 6-M	1212724	1
<b>Crimping pliers</b> , for uninsulated cable lugs, two marked die stations, unlockable pressure lock, lateral entry						
<b>Crimping pliers</b> , for uninsulated cable lugs, three marked die stations, unlockable pressure lock, lateral entry						



Conductor cross section of 0.5 - 6 mm<sup>2</sup>



Conductor cross section of 4 - 10 mm<sup>2</sup>



Conductor cross section of 10 - 25 mm<sup>2</sup>

ERC

ERC

Technical data
0.5 - 6 / 20 - 10 Indent crimp

Technical data
4 - 10 / 12 - 8 Indent crimp

Technical data
10 - 25 / 8 - 4 Indent crimp

Ordering data
---------------

Ordering data
---------------

Ordering data
---------------

Type	Order No.	Pcs. / Pkt.
CRIMPFOX-RC 6	1212710	1

Type	Order No.	Pcs. / Pkt.
CRIMPFOX-RC 10	1212061	1

Type	Order No.	Pcs. / Pkt.
CRIMPFOX-RC 25	1212065	1

## Hand tools

### CRIMPFOX crimping pliers for uninsulated tube lugs

- For processing uninsulated tube lugs
- Consistently high crimping quality, thanks to the integrated pressure lock



4 - 16 mm<sup>2</sup> conductor cross section



10 - 70 mm<sup>2</sup> conductor cross section

	Technical data			Technical data		
<b>Application range</b>						
Conductor	[mm <sup>2</sup> ] / AWG	4 - 16 / 4 - 12		10 - 70 / 8 - 00		
Compression		Indent crimp		Indent crimp		
	Ordering data			Ordering data		
<b>Description</b>	<b>Type</b>	<b>Order No.</b>	<b>Pcs. / Pkt.</b>	<b>Type</b>	<b>Order No.</b>	<b>Pcs. / Pkt.</b>
<b>Crimping pliers</b> , for standard, uninsulated tube lugs, three marked die stations	<b>CRIMPFOX-RCT 16-1</b>	<b>1212731</b>	<b>1</b>			
<b>Crimping pliers</b> , for standard, uninsulated tube lugs, three marked die stations, unlockable pressure lock, lateral entry, 10 - 25 mm <sup>2</sup> conductor cross section, crimping: HEX crimp				<b>CRIMPFOX-RCT 25-1</b>	<b>1212066</b>	<b>1</b>
<b>Crimping pliers</b> , for standard, uninsulated tube lugs, with rotatable die, 5 stations, 10 - 70 mm <sup>2</sup> conductor cross section				<b>CRIMPFOX-RCT 70-1</b>	<b>1212732</b>	<b>1</b>

### CRIMPFOX basic pliers, for accommodating various crimp inserts

- Universal crimping pliers up to 120 mm<sup>2</sup>
- Wide variety of available dies
- Easily foldable jaw holders mean that the dies can be changed quickly
- A mechanical drive system keeps the level of force required to an absolute minimum



For dies up to 50 mm<sup>2</sup>



For dies up to 120 mm<sup>2</sup>

**Notes:**

Suitable ferrules, cable lugs and flat connectors have been documented, see from page 444.

For more dies, see phoenixcontact.net/products.

ERC

**Ordering data**

Type	Order No.	Pcs. / Pkt.
CRIMPFOX-C50	1212340	1

**Accessories**

CRIMPFOX-C50 RCI 10/DIE	1212346	1
CRIMPFOX-C50 RCI 16/DIE	1212347	1
CRIMPFOX-C50 RCI 25/DIE	1212348	1
CRIMPFOX-C50 RC 35/M-DIE	1212343	1
CRIMPFOX-C50 RC 25/F-DIE	1212344	1
CRIMPFOX-C50 RC 35/F-DIE	1212345	1
CRIMPFOX-C50 RCT 35-1/DIE	1212341	1
CRIMPFOX-C50 RCT 50-1/DIE	1212342	1
CRIMPFOX-C50 R25-35/DIE	1212349	1
CRIMPFOX-C50 R35-50/DIE	1212350	1
CRIMPFOX-C50 R50-70/DIE	1212351	1

ERC

**Ordering data**

Type	Order No.	Pcs. / Pkt.
CRIMPFOX-C120	1212318	1

**Accessories**

CRIMPFOX-C120 AI 70/M-DIE	1212335	1
CRIMPFOX-C120 AI 95/M-DIE	1212336	1
CRIMPFOX-C120 AI 50/F-DIE	1212337	1
CRIMPFOX-C120 AI 70/F-DIE	1212338	1
CRIMPFOX-C120 AI 95/F-DIE	1212339	1
CRIMPFOX-C120 AI 120/DIE	1209910	1
CRIMPFOX-C120 RCI 10/DIE	1212327	1
CRIMPFOX-C120 RCI 16/DIE	1212328	1
CRIMPFOX-C120 RCI 25/DIE	1212329	1
CRIMPFOX-C120 RCI 35/DIE	1212330	1
CRIMPFOX-C120 RC 70/M-DIE	1212331	1
CRIMPFOX-C120 RC 35/F-DIE	1212332	1
CRIMPFOX-C120 RC 50/F-DIE	1212333	1
CRIMPFOX-C120 RC 70/F-DIE	1212334	1
CRIMPFOX-C120 RCT 35-1/DIE	1212320	1
CRIMPFOX-C120 RCT 50-1/DIE	1212321	1
CRIMPFOX-C120 RCT 70-1/DIE	1212319	1
CRIMPFOX-C120 RCT 95-1/DIE	1212322	1
CRIMPFOX-C120 RCT 120-1/DIE	1212323	1
CRIMPFOX-C120 R25-50/DIE	1212324	1
CRIMPFOX-C120 R35-70/DIE	1212325	1
CRIMPFOX-C120 R95/DIE	1212326	1

Description
<b>Basic pliers</b> , with ratchet function, for accommodating dies for various contacts Up to 50 mm <sup>2</sup> Two-hand operation of up to 120 mm <sup>2</sup>

<b>Upper part of die</b> , for ferrules 50 mm <sup>2</sup> , 70 mm <sup>2</sup> , trapezoidal crimp  For 95 mm <sup>2</sup> <b>Lower part of die</b> , for ferrules 50 mm <sup>2</sup> , trapezoidal crimp  For 70 mm <sup>2</sup> For 95 mm <sup>2</sup> <b>Die (pair)</b> , for ferrules 120 mm <sup>2</sup> , trapezoid crimp
---

<b>Die pair</b> , for insulated cable lugs, 10 mm <sup>2</sup> , oval crimp  For 16 mm <sup>2</sup> For 25 mm <sup>2</sup> For 35 mm <sup>2</sup>
---

<b>Die upper part</b> , for non-isolated cable lugs, (DIN 46234) 6 - 35 mm <sup>2</sup> , indent crimp  For 6 - 70 mm <sup>2</sup> <b>Die lower part</b> , for non-isolated cable lugs, 25 mm <sup>2</sup> , indent crimp
--

For 35 mm <sup>2</sup> For 10, 16, 25, 35 mm <sup>2</sup> For 6, 50 mm <sup>2</sup> For 10, 70 mm <sup>2</sup> <b>Die (pair)</b> , for commercially available copper tubular cable lugs, 35 mm <sup>2</sup> , WM crimp
--

For 16, 35 mm <sup>2</sup> For 50 mm <sup>2</sup> For 25, 50 mm <sup>2</sup> For 10, 70 mm <sup>2</sup> For 95 mm <sup>2</sup> For 120 mm <sup>2</sup>
---

<b>Pre-round die (pair)</b> , for sector cable, 25, 35 mm <sup>2</sup>  For 35, 50 mm <sup>2</sup> For 50, 70 mm <sup>2</sup> For 25, 50 mm <sup>2</sup> For 35, 70 mm <sup>2</sup> For 95 mm <sup>2</sup>
--

## Hand tools

### CRIMPFOX crimping pliers for non-insulated slip-on sleeves

- For processing non-insulated flat connectors and slip on sleeves with a cross section of up to 6 mm<sup>2</sup>
- Consistently high crimping quality, thanks to the integrated pressure lock
- Marked die stations for precise processing of the relevant cross sections

**Notes:**  
Suitable ferrules, cable lugs and flat connectors have been documented, see from page 444.



Conductor cross section of 0.1 - 1.5 mm<sup>2</sup>



Conductor cross section of 0.1 - 1.5 mm<sup>2</sup>

ERIC

		Technical data			Technical data		
<b>Application range</b>							
Conductor	[mm <sup>2</sup> ] / AWG	0.1 - 1.5 / 26 - 16			0.1 - 1.5 / 26 - 16		
Compression		B crimp			B crimp		
		Ordering data			Ordering data		
<b>Description</b>	<b>Color</b>	<b>Type</b>	<b>Order No.</b>	<b>Pcs. / Pkt.</b>	<b>Type</b>	<b>Order No.</b>	<b>Pcs. / Pkt.</b>
<b>Crimping pliers</b> , for 2.8 / 4.8 / 6.3 mm non-insulated slip-on sleeves, three marked die stations, unlockable pressure lock, lateral entry		<b>CRIMPFOX-SC 1,5</b>	<b>1212048</b>	<b>1</b>			
<b>Crimping pliers</b> , compact pliers, for uninsulated slip-on sleeves, 2.8 / 4.8 / 6.3 mm, three marked die stations, unlockable pressure lock, lateral entry					<b>CRIMPFOX-SC 1,5-M</b>	<b>1212725</b>	<b>1</b>
<b>Crimping pliers</b> , for 2.8 / 4.8 / 6.3 mm non-insulated slip-on sleeves, three marked die stations, unlockable pressure lock, lateral entry	black						
<b>Crimping pliers</b> , for 2.8 / 4.8 / 6.3 mm non-insulated slip-on sleeves, three marked die stations, unlockable pressure lock, lateral entry, incl. positioning tool	black						
<b>Crimping pliers</b> , compact pliers, for angled, uninsulated slip-on sleeves, marked die station, unlockable pressure lock, lateral entry							
		Accessories			Accessories		
<b>Replacement die</b>		<b>CRIMPFOX-SC 1,5/DIE</b>	<b>1212049</b>	<b>1</b>			
<b>Replacement recuperating spring</b>		<b>CRIMPFOX/ SPR-3</b>	<b>1212036</b>	<b>1</b>	<b>CRIMPFOX/ SPR-1</b>	<b>1212069</b>	<b>1</b>





Conductor cross section of 0.5 - 6 mm<sup>2</sup>



Conductor cross section of 0.5 - 6 mm<sup>2</sup>



For angled slip-on sleeves, 1.0 - 2.5 mm<sup>2</sup> conductor cross section

ERC

ERC

Technical data		
0.5 - 6 / 22 - 10 B crimp		
Ordering data		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX-SC 6	1212050	1

Technical data		
0.5 - 6 / 22 - 10 B crimp		
Ordering data		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX-SC 6L	1212052	1

Technical data		
1 - 2.5 / 18 - 14 B crimp		
Ordering data		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX-SCA 2,5-M	1212726	1

Accessories		
CRIMPFOX-SC 6/DIE	1212051	1
CRIMPFOX/ SPR-1	1212069	1

Accessories		
CRIMPFOX-SC 6/DIE	1212051	1
CRIMPFOX/ SPR-1	1212069	1

Accessories		
CRIMPFOX/ SPR-1	1212069	1

Hand tools

**CRIMPFOX crimping pliers for turned contacts**

- Crimping pliers for processing turned contacts of up to 10 mm<sup>2</sup>
- The integrated positioning tool ensures that the contacts are perfectly aligned in the die
- Marked die stations for precise processing of the relevant cross sections



Conductor cross section of 0.5 - 4 mm<sup>2</sup>

Application range	
Conductor	[mm <sup>2</sup> ] / AWG
Compression	
Description	
Color	
<b>Crimping pliers</b> , for turned contacts with a pin diameter of 1.6 / 2.5 / 4.0 mm - For CK1,6-ED ... , CK2,5-ED..., CK4,0-E D... 0,5-4 mm <sup>2</sup> turned contacts	
For conductor cross sections of 6 – 10 mm <sup>2</sup>	black
<b>Replacement die</b> - For CRIMPFOX-TC 4 - For CRIMPFOX-TC 10	
<b>Replacement recuperating spring</b>	

Technical data		
0.5 - 4 / 22 - 12 Square crimp		
Ordering data		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX-TC 4	1212113	1
CRIMPFOX-TC 10	1212114	1
Accessories		
CRIMPFOX-TC 4/DIE	1212295	1
CRIMPFOX-TC 10/DIE	1212296	1
CRIMPFOX/ SPR-1	1212069	1

**CRIMPFOX four-mandrel crimping pliers for turned contacts, with digital display**

- Crimping pliers for processing turned pin and socket contacts of up to 2.5 mm<sup>2</sup>
- Crimp depth setting in increments from 0.01 mm possible
- Low strain and length adjustment of the contacts, thanks to special crimp geometry
- The integrated positioning tool ensures that the contacts are perfectly aligned in the die
- You can find further details on this product (incl. connector matrix) at [phoenixcontact.net/products](http://phoenixcontact.net/products)



Conductor cross sections up to 2.5 mm<sup>2</sup>

Application range	
Conductor	[mm <sup>2</sup> ] / AWG
Compression	
Description	
Color	
<b>Crimping pliers</b> , for turned contacts, universal cross section setting, up to a maximum of 2.5 mm <sup>2</sup> , digital display with 0.01 mm increments, unlockable pressure lock, lateral entry, including positioning tool	
	black
<b>Crimping pliers</b> , for turned contacts, universal cross section setting, from 0.08 mm <sup>2</sup> up to a maximum of 2.5 mm <sup>2</sup> , digital display with 0.01 mm increments, pressure lock can be unlocked, lateral entry, including positioning tool	
	black

Technical data		
0.08 - 2.5 / 28 - 13 Four-mandrel crimping		
Ordering data		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX-TC MP	1212510	1
CRIMPFOX-TC MP-1	1212620	1

**CRIMPFOX crimping pliers for coaxial connectors**

- CRIMPFOX-CX... are crimping pliers for processing coaxial connectors
- Consistently high crimping quality, thanks to the pressure lock, which can be unlocked without tools
- Marked die stations for precise processing of corresponding cross sections



For coaxial connectors

**Notes:**  
For replacement dies and retaining springs, go to the product area on the website at phoenixcontact.net/products.

ERC

		Technical data			Technical data		
Application range		Ordering data			Ordering data		
Compression		Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
HEX crimp		HEX crimp			HEX crimp		
Description	Color	CRIMPFOX-CX 4,52	1212094	1			
					CRIMPFOX-CX 4,52-M	1212713	1
Crimp pliers, for: Coaxial connector 1.69 mm, 3.25 mm, 4.52 mm, three marked die stations, pressure lock can be released, lateral entry, Hex crimp							
Crimping pliers, compact pliers, coaxial connectors, 1.69 mm, 3.25 mm, 4.52 mm, three marked die stations, unlockable pressure lock, lateral entry, Hex crimp							
Crimping pliers, compact pliers, coaxial connectors, 1.69 mm, 5.41 mm, 6.48 mm, three marked die stations, unlockable pressure lock, lateral entry, Hex crimp					CRIMPFOX-CX 6,48-M	1212714	1
Crimping pliers, for: coaxial connectors, 1.69 mm, 5.41 mm, 6.48 mm, three marked die stations, unlockable pressure lock, lateral entry, Hex crimp		CRIMPFOX-CX 6,48	1212095	1			
Crimping pliers, compact pliers, coaxial connectors, 0.7 mm, 1.07 mm, 1.69 mm, 3.25 mm, 4.52 mm, 5.41 mm, six marked die stations, unlockable pressure lock, lateral entry, Hex crimp					CRIMPFOX-CX 5,41-M	1212712	1
Crimping pliers, for: coaxial connectors, 1.73 mm, 8.23 mm, 9.14 mm, three marked die stations, unlockable pressure lock, lateral entry					CRIMPFOX-CX 9,14	1212096	1
Crimping pliers, for: coaxial connectors, 2.54 mm, 10.54 mm, two marked die stations, unlockable pressure lock, lateral entry					CRIMPFOX-CX 10,54	1212097	1
Crimping pliers, for: coaxial connectors, 2.54 mm, 10.90 mm, two marked die stations, unlockable pressure lock, lateral entry					CRIMPFOX-CX 10,90	1212098	1
Crimping pliers, compact pliers, coaxial connectors, 1.69 mm, 2.54 mm, 5.41 mm, 10.90 mm, four marked die stations, unlockable pressure lock, lateral entry					CRIMPFOX-CX 10,90-1	1212715	1
Crimping pliers, compact pliers, coaxial connectors, HDTV, BNC, TNC, 1.04 mm, 4.52 mm, 6.48 mm, 7.06 mm, four marked die stations, unlockable pressure lock, lateral entry					CRIMPFOX-CX 7,06 HD-M	1212718	1

## Hand tools

### CRIMPFOX crimping pliers for coaxial CATV connectors

- CRIMPFOX-CATV... are crimping pliers for processing coaxial CATV connectors
- Consistently high crimping quality, thanks to the pressure lock
- It is released as soon as the required crimping pressure is reached, therefore ensuring sufficient pressure is applied
- Ergonomically designed handle for fatigue-proof and non-slip use



For 1.69 mm, 8.23 mm



For 6.65 mm, 8.23 mm, 9.70 mm

#### Application range

Compression

#### Description

**Crimping pliers**, for CATV connectors, RG 6.59, 1.69 mm, 8.23 mm, two marked die stations, unlockable pressure lock, lateral entry

**Crimping pliers**, for CATV connectors, 6.65 mm, 8.23 mm, 9.70 mm, three marked die stations, unlockable pressure lock, lateral entry

#### Technical data

HEX crimp

#### Ordering data

Type	Order No.	Pcs. / Pkt.
CRIMPFOX-CATV 8,23	1212716	1

#### Technical data

HEX crimp

#### Ordering data

Type	Order No.	Pcs. / Pkt.
CRIMPFOX-CATV 8,23-1	1212717	1

### CRIMPFOX crimping pliers for D-SUB, coaxial, and fiber optic connectors

- The integrated positioning tool of the CRIMPFOX D-SUB... ensures that the contacts are perfectly aligned in the die

#### Notes:

For replacement dies and retaining springs, go to the product area on the website at [phoenixcontact.net/products](http://phoenixcontact.net/products).



Crimping pliers, for D-SUB contacts



Crimping pliers, for fiber optic connectors

#### Application range

Compression

#### Description

Color

#### Crimping pliers

- For rolled D-SUB contacts, high-density, 0.08 mm<sup>2</sup> - 0.5 mm<sup>2</sup>, incl. contact locator

black

- For rolled D-SUB contacts, standard, 0.05 mm<sup>2</sup> - 0.5 mm<sup>2</sup>, incl. contact locator

**Crimping pliers**, for fiber optics connector, 3.25 mm, 3.84 mm, 4.52 mm, 5.0 mm, 5.41 mm, five marked die stations, pressure lock can be released, lateral entry

#### Technical data

B crimp

#### Ordering data

Type	Order No.	Pcs. / Pkt.
CRIMPFOX-DSUB 5	1212111	1
CRIMPFOX-DSUB 5-1	1212711	1

#### Technical data

HEX crimp

#### Ordering data

Type	Order No.	Pcs. / Pkt.
CRIMPFOX-FO 5,41	1212099	1

## CRIMPFOX crimping pliers for solar connectors



- Safe crimping of MC3 and MC4 solar connectors from Multi-Contact and SOLARLOK connectors from Tyco
- Ergonomically designed grip
- Optimized mechanical transmission reduces the force required by up to 25 percent



Conductor cross section of 2.5 - 6 mm<sup>2</sup>

### Description

**Crimping pliers**, square crimp, for MC3 solar connectors, 2.5 – 6 mm<sup>2</sup>, unlockable pressure lock, lateral entry, with three marked die stations

**Crimping pliers**, B-crimp, for MC4 solar connectors, 2.5 – 6 mm<sup>2</sup>, unlockable pressure lock, lateral entry, with three marked die stations

**Crimping pliers**, square crimp, for SOLARLOK solar connectors, 2.5 – 6 mm<sup>2</sup>, unlockable pressure lock, lateral entry, with three marked die stations

### Ordering data

Type	Order No.	Pcs. / Pkt.
CRIMPFOX-SR 6-1	1212467	1
CRIMPFOX-SR 6-2	1212468	1
CRIMPFOX-SR 6-3	1212469	1

## CRIMPFOX universal pliers for accommodating various crimp inserts



- One of the key features of the CRIMPFOX-M crimping pliers is the way the crimp inserts can be quickly replaced without the need for tools
- The variety of inserts makes it a space-saving universal tool for all crimping applications
- Suitable for one and two-hand operation. Contacts up to 50 mm<sup>2</sup> can also be processed easily, with minimum effort

### Notes:

For more crimping dies for ferrules, cable lugs, slip-on sleeves, turned contacts, coaxial, RJ45, and RJ11 plugs, visit [phoenixcontact.net/products](http://phoenixcontact.net/products)

### Description

**Basic pliers**, for accommodating dies for various contact types, pressure lock can be unlocked, lateral entry

**Crimping pliers set**, consisting of CRIMPFOX-M and dies 1212074, 1212079, 1212080, 1212081



Basic pliers

### Ordering data

Type	Order No.	Pcs. / Pkt.
CRIMPFOX-M	1212072	1
CRIMPFOX-M SET	1212093	1

Hand tools

Dies for the CRIMPFOX-M universal pliers

**Notes:**  
 For more crimping dies for ferrules, cable lugs, slip-on sleeves, turned contacts, coaxial, RJ45, and RJ11 plugs, visit [phoenixcontact.net/products](http://phoenixcontact.net/products)



Dies for CRIMPFOX-M

ERC

Ordering data

Description	Type	Order No.	Pcs. / Pkt.	
<b>Die, for MC3 solar connectors, lateral entry, 2.5 - 6 mm<sup>2</sup></b>				
For MC4 solar connectors, lateral entry, 2.5 - 6 mm <sup>2</sup>	CRIMPFOX-M SR 6-1/DIE	1212471	1	
	CRIMPFOX-M SR 6-2/DIE	1212472	1	
For SOLARLOK solar connectors, lateral entry, 2.5 - 6 mm <sup>2</sup>	CRIMPFOX-M SR 6-3/DIE	1212473	1	
<b>Die, for ferrules, 0.25 - 10 mm<sup>2</sup></b>				
For 16 - 25 mm <sup>2</sup>	CRIMPFOX-M 10/DIE	1212080	1	
For 35 - 50 mm <sup>2</sup>	CRIMPFOX-M 25/DIE	1212081	1	
	CRIMPFOX-M 50/DIE	1212082	1	
<b>Die, for insulated cable lugs, 0.5 - 1.5 mm<sup>2</sup> and 1.5 - 2.5 mm<sup>2</sup></b>				
For insulated cable lugs, 0.1 - 0.4 mm <sup>2</sup> and 4 - 6 mm <sup>2</sup>	CRIMPFOX-M RCI 2,5/DIE	1212074	1	
	CRIMPFOX-M RCI 6/DIE	1212073	1	
<b>Die, for non-insulated cable lugs, 0.75 - 2.5 mm<sup>2</sup></b>				
For 0.5 - 6 mm <sup>2</sup>	CRIMPFOX-M RC 2,5/DIE	1212078	1	
For 4 - 6 and 10 mm <sup>2</sup>	CRIMPFOX-M RC 6/DIE	1212079	1	
For 4 - 10 mm <sup>2</sup>	CRIMPFOX-M RC 10-1/DIE	1212744	1	
	CRIMPFOX-M RC 10/DIE	1212077	1	
<b>Die, for non-insulated slip-on sleeves, 0.1 - 1 mm<sup>2</sup></b>				
For 0.5 - 2.5 mm <sup>2</sup>	CRIMPFOX-M SC 1/DIE	1212083	1	
For 0.5 - 6 mm <sup>2</sup>	CRIMPFOX-M SC 2,5/DIE	1212084	1	
with wide, flat crimp for 0.5 - 6 mm <sup>2</sup>	CRIMPFOX-M SC 6/DIE	1212085	1	
	CRIMPFOX-M SC 6-FL/DIE	1212741	1	
For angled slip-on sleeves, for 6.3 mm, 1.0 - 2.5 mm <sup>2</sup>	CRIMPFOX-M SCA 2,5/DIE	1212742	1	
For angled slip-on sleeves, for 8 mm, 1.0 - 2.5 mm <sup>2</sup>	CRIMPFOX-M SCA 2,5-1/DIE	1212743	1	
<b>Die, for turned contacts with pin diameters 2.5 mm and 4.0 mm (CK 2,5...CK 4,0), cross section 0.14 - 4 mm<sup>2</sup></b>	CRIMPFOX-M TC 4/DIE	1212075	1	
For turned contacts with pin diameter 4 mm (CK 4,0...), cross section 6 - 10 mm <sup>2</sup>	CRIMPFOX-M TC 10/DIE	1212076	1	
<b>Die, for RG 174, RG 179, BNC, TNC coaxial connectors</b>				
For RG 58, RG 59, RG 62, RG 71, BNC, TNC	black black	CRIMPFOX-M CX-1/DIE CRIMPFOX-M CX-2/DIE	1212087 1212088	1 1
For CATV RG 6,59	black	CRIMPFOX-M CX-3/DIE	1212089	1
For BNC, TNC, RG6, 1.73, 6.48, 8.23 mm		CRIMPFOX-M CX-4/DIE	1212745	1
For BNC, TNC, 0.70, 3.25, 3.85 mm		CRIMPFOX-M CX-5/DIE	1212746	1
For BNC, TNC, 1.07, 6.48, 8.23 mm		CRIMPFOX-M CX-6/DIE	1212747	1
For BNC, TNC, 1.72, 5.41 mm		CRIMPFOX-M CX-7/DIE	1212748	1
For CATV RG 6.59 1.72, 8.23 mm		CRIMPFOX-M CX-8/DIE	1212749	1
<b>Die, for unshielded RJ45 connectors</b>				
For unshielded RJ11 connectors	black black	CRIMPFOX-M RJ45/DIE CRIMPFOX-M RJ11/DIE	1212090 1212091	1 1
<b>Die, for shrink connectors, 0.5 - 1.5 mm<sup>2</sup> red and 1.5 - 2.5 mm<sup>2</sup> blue</b>	black	CRIMPFOX-M HS/DIE	1219092	1
<b>Die, for shrink connectors, 0.1 - 0.4 mm<sup>2</sup> green and 4 - 6 mm<sup>2</sup> yellow</b>		CRIMPFOX-M HS-1/DIE	1212282	1

**CRIMPFOX universal pliers for accommodating various dies for data plugs**

- One of the key features of the CRIMPFOX-C D crimping pliers is the way the crimp inserts can be quickly replaced without the need for tools
- The variety of inserts makes them a space-saving universal tool for data plug applications



Basic pliers



Die for CRIMPFOX-C D

Description	Color	Ordering data			Ordering data		
		Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
<b>Basic pliers</b> , for accommodating dies for various contact types, pressure lock can be unlocked, lateral entry	black	<b>CRIMPFOX-C D</b>	<b>1212734</b>	<b>1</b>			
<b>Die</b> , for unshielded RJ11 plugs					<b>CRIMPFOX-C RJ11/DIE</b>	<b>1212735</b>	<b>1</b>
<b>Die</b> , for unshielded RJ22 plugs					<b>CRIMPFOX-C RJ22/DIE</b>	<b>1212736</b>	<b>1</b>
<b>Die</b> , for unshielded RJ45 plugs					<b>CRIMPFOX-C RJ45/DIE</b>	<b>1212737</b>	<b>1</b>
<b>Die</b> , for unshielded RJ45 plugs, universal					<b>CRIMPFOX-C RJ45U/DIE</b>	<b>1212738</b>	<b>1</b>
<b>Die</b> , 10-pos.					<b>CRIMPFOX-C 10P/DIE</b>	<b>1212739</b>	<b>1</b>
<b>Die</b> , for DEC MML plugs					<b>CRIMPFOX-C MMJ/DIE</b>	<b>1212740</b>	<b>1</b>

Hand tools

SCREWFOX screwdrivers for slotted-head screws



- Large contact surface of blades inside screw head
- Individually tested safety screwdrivers acc. to DIN EN 60900 (VDE 0682-201)
- For working on or in the vicinity of live parts up to 1000 V AC or 1500 V DC
- The tools feature ergonomic two-component safety handles



VDE flat-bladed screwdriver



Ordering data

Description	Type	Order No.	Pcs. / Pkt.
<b>Screwdriver</b> , for slotted-head screws, with VDE approval			
Blade: 0.4 x 2.5 x 80 mm, length: 161 mm	SZS 0,4X2,5 VDE	1205037	10
Blade: 0.5 x 3.5 x 100 mm, length: 181 mm	SZS 0,5X3,0 VDE	1207404	10
Blade: 0.6 x 2.5 x 80 mm, length: 161 mm	SZS 0,6X2,5 VDE	1205040	10
Blade: 0.6 x 3.5 x 100 mm, length: 181 mm	SZS 0,6X3,5 VDE	1212602	10
Blade: 0.8 x 4.0 x 100 mm, length: 198 mm	SZS 0,8X4,0 VDE	1212508	1
Blade: 1.0 x 4.0 x 100 mm, length: 198 mm	SZS 1,0X4,0 VDE	1205066	10
Blade: 1.0 x 5.5 x 125 mm, length: 223 mm	SZS 1,0X5,5 VDE	1209114	10
Blade: 1.0 x 6.5 x 150 mm, length: 248 mm	SZS 1,0X6,5 VDE	1205079	10
Blade: 1.2 x 8.0 x 175 mm, length: 287 mm	SZS 1,2X8,0 VDE	1205082	10
<b>Screwdriver</b> , two-component handle, with non-slip grip, for slotted-head screws			
Blade: 0.4 x 2.0 x 60 mm, length: 130 mm			
Blade: 0.4 x 2.5 x 75 mm, length: 145 mm			
Blade: 0.4 x 2.5 x 80 mm, length: 161 mm			
Blade: 0.6 x 3.5 x 100 mm, length: 181 mm			
Blade: 0.6 x 3.5 x 200 mm, length: 281 mm			
Blade: 0.8 x 4.0 x 100 mm, length: 198 mm			
Blade: 1.0 x 5.5 x 150 mm, length: 248 mm			
Blade: 1.2 x 6.5 x 150 mm, length: 255 mm			
<b>Screwdriver</b> , two-component handle, with non-slip grip, with impact cap, with hexagon wrench aid for open-end wrench and ring wrench, for slotted-head screws			
Blade: 1.2 x 7 x 125 mm, length: 230 mm			
Blade: 1.6 x 10 x 175 mm, length: 287 mm			





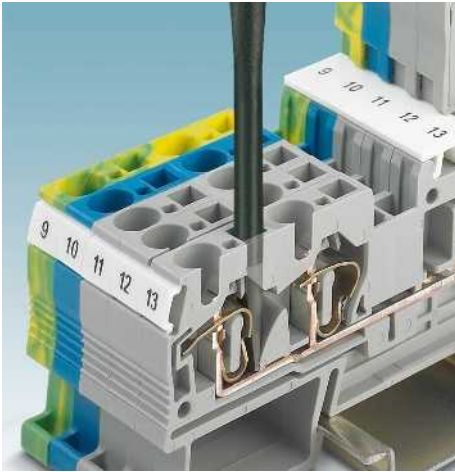
Flat-bladed screwdriver, non-insulated

## Ordering data

Type	Order No.	Pcs. / Pkt.
SF-SL 0,4X2,0-60	1212546	10
SF-SL 0,4X2,5-75	1212547	10
SF-SL 0,5X3,0-80	1212548	10
SF-SL 0,6X3,5-100	1212549	10
SF-SL 0,6X3,5-200	1212550	10
SF-SL 0,8X4,0-100	1212551	10
SF-SL 1,0X5,5-150	1212552	10
SF-SL 1,2X6,5-150	1212553	10
SF-SLIC 1,2X7,0-125	1212554	10
SF-SLIC 1,6X10-175	1212555	10

Hand tools

**SCREWFOX VDE**  
screwdriver/actuation tool for ST...  
terminal blocks



- In addition to catering for standard applications, SF-SL ... screwdrivers are particularly suited to the assembly of modular terminal blocks
- VDE-tested, for maximum safety
- As the insulation runs into the shaft, there is no protruding edge

Description
<p><b>Screwdriver/actuation tool</b>, for slotted-head screws/spring-cage terminal blocks, insulated, two-component handle, with non-slip grip, VDE Blade: 0.6 x 3.5 x 100 mm, length: 181 mm</p> <p>Blade: 0.8 x 4.0 x 100 mm, length: 198 mm</p> <p>Blade: 1.0 x 5.5 x 150 mm, length: 248 mm</p> <p><b>Screwdriver</b>, protective insulation integrated into shaft, insulated according to VDE Size: PZ1 x 80 mm Size: PZ2 x 100 mm</p> <p><b>Screwdriver</b>, protective insulation integrated into shaft, insulated according to VDE Size: PH1 x 80 mm Size: PH2 x 100 mm</p> <p><b>Screwdriver</b>, protective insulation integrated into shaft, insulated according to VDE Size: Pozidriv® - bladed (plus-minus) PZ1 x 80 mm</p> <p>Size: Pozidriv® - bladed (plus-minus) PZ2 x 100 mm</p> <p><b>Screwdriver</b>, protective insulation integrated into shaft, insulated according to VDE Size: Phillips-Recess® - bladed (plus-minus) PH1 x 80 mm Size: Phillips-Recess® - bladed (plus-minus) PH2 x 100 mm</p> <p><b>Screwdriver set</b>, protective insulation integrated into shaft, bladed/Phillips crosshead/combined profile, Pozidriv® + bladed (plus-minus), insulated according to VDE, 7-piece, including rack, set contains the following products: 0.6 x 3.5 x 100; 0.8 x 4.0 x 100; 1.0 x 5.5 x 125; PH1 x 80; PH2 x 100; PZ1 x 80; PZ2 x 100</p>



VDE flat-bladed screwdrivers with integrated insulation



Ordering data		
Type	Order No.	Pcs. / Pkt.
SF-SL 0,6X3,5-100 S-VDE	1212587	10
SF-SL 0,8X4,0-100 S-VDE	1212588	10
SF-SL 1,0X5,5-125 S-VDE	1212589	10





VDE screwdrivers with Pozidriv® or Phillips-Recess®drive, with integrated insulation



VDE screwdrivers with plus-minus drive, with integrated insulation



VDE screwdriver with various drives



Ordering data		
Type	Order No.	Pcs. / Pkt.
SF-PZ 1-80 S-VDE	1212695	10
SF-PZ 2-100 S-VDE	1212696	10
SF-PH 1-80 S-VDE	1212693	10
SF-PH 2-100 S-VDE	1212694	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
SF-PZSL 1-80 S-VDE	1212699	10
SF-PZSL 2-100 S-VDE	1212700	10
SF-PHSL 1-80 S-VDE	1212697	10
SF-PHSL 2-100 S-VDE	1212698	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
SF-SL/PH/PZ-SL SET S-VDE	1212701	1

## Hand tools

### SCREWFOX screwdriver and actuation tool for ST..., QTC..., and TB... terminal blocks



- In addition to the standard application, these screwdrivers are also ideal for actuating modular terminal blocks from the ST ... and QTC ... series
- The defined blade angle opens the spring terminal block as far as possible without leaving any damage



Flat-bladed screwdriver, non-insulated

ERC

#### Ordering data

Description	Type	Order No.	Pcs. / Pkt.
<b>Screwdriver/actuation tool</b> , for slotted-head screws/spring-cage terminal blocks Blade: 0.4 x 2.5 x 75 mm, length: 156 mm	SZF 0-0,4X2,5	1204504	10
Blade: 0.6 x 3.5 x 100 mm, length: 181 mm	SZF 1-0,6X3,5	1204517	10
Blade: 0.8 x 4.0 x 100 mm, length: 198 mm	SZF 2-0,8X4,0	1204520	10
Blade: 1.0 x 5.5 x 150 mm, length: 248 mm	SZF 3-1,0X5,5	1206612	10
<b>Screwdriver/actuation tool</b> , for slotted-head screws/spring-cage terminal blocks, insulated Blade: 0.6 x 3.5 x 100 mm, length: 181 mm	SZS 0,6X3,5	1205053	10
<b>Actuation tool, insulated</b> , for all 2.5 mm <sup>2</sup> and 4 mm <sup>2</sup> ST... spring-cage terminal blocks, plus push-in and QT... fast connection terminal blocks			





Actuation tool for push-in technology,  
ST... and QTC... terminal blocks

ERIC

## Ordering data

Type	Order No.	Pcs. / Pkt.
ST-BW	1207608	10

## Hand tools

### SCREWFOX screwdrivers for Phillips and slotted-head screws



- Screwdrivers for Phillips screws with Pozidriv and Phillips Recess screw head
- VDE approval
- The SZG... screwdrivers have been specially designed for driving in test socket screws safely and without slipping

#### Notes:

Pozidriv®/Supadriv®, trademarks of European Ind. Serv. Ltd. Phillips Recess®, trademark of Phillips Screw Company



VDE crosshead screwdrivers with Pozidriv® and Phillips-Recess® drive



#### Ordering data

Description	Type	Order No.	Pcs. / Pkt.
<b>Screwdrivers, for Pozidriv®/Supadriv® Phillips screws, VDE approval</b>			
Size: PZ0 x 80 mm, length: 161 mm	SZK PZ0 VDE	1206447	10
Size: PZ1 x 80 mm, length: 178 mm	SZK PZ1 VDE	1206450	10
Size: PZ2 x 100 mm, length: 205 mm	SZK PZ2 VDE	1206463	10
Size: PZ3 x 150 mm, length: 262 mm	SZK PZ3 VDE	1212599	10
<b>Screwdrivers, for Phillips Recess® screws, VDE approval</b>			
Size: PH0 x 80 mm, length: 161 mm	SZK PH0 VDE	1205147	10
Size: PH1 x 80 mm, length: 178 mm	SZK PH1 VDE	1205150	10
Size: PH2 x 100 mm, length: 205 mm	SZK PH2 VDE	1205163	10
Size: PH3 x 150 mm, length: 262 mm	SZK PH3 VDE	1212536	10
<b>Screwdrivers, for Pozidriv® Phillips screws</b>			
Size: PZ0 x 60 mm, length: 141 mm			
Size: PZ1 x 80 mm, length: 178 mm			
Size: PZ2 x 100 mm, length: 205 mm			
Size: PZ3 x 150 mm, length: 262 mm			
<b>Screwdrivers, for Phillips Recess® screws</b>			
Size: PH0 x 60 mm, length: 141 mm			
Size: PH1 x 80 mm, length: 178 mm			
Size: PH2 x 100 mm, length: 205 mm			
Size: PH3 x 150 mm, length: 262 mm			
<b>Screwdriver, for Pozidriv®/Supadriv® Phillips screws, VDE approval</b>			
Size: PZ1 x 80 mm, length: 178 mm			
Size: PZ2 x 100 mm, length: 205 mm			
Size: PH1 x 80 mm, length: 178 mm			
Size: PH2 x 100 mm, length: 205 mm			
<b>Screwdriver, for test socket screws, with VDE approval</b>			
For 2.3 mm Ø screw, blade: 0.6 x 3.5 x 100 mm, length: 198 mm			
For 4 mm Ø screw, blade: 0.9 x 6.5 x 175 mm, length: 287 mm			





Crosshead screwdrivers with Pozidriv® and Phillips-Recess® drive



VDE screwdriver with plus-minus drive



VDE screwdriver for test socket screws



Ordering data		
Type	Order No.	Pcs. / Pkt.
SF-PZ 0-60	1212562	10
SF-PZ 1-80	1212563	10
SF-PZ 2-100	1212564	10
SF-PZ 3-150	1212565	10
SF-PH 0-60	1212558	10
SF-PH 1-80	1212559	10
SF-PH 2-100	1212560	10
SF-PH 3-150	1212561	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
SF-PZSL 1-80 VDE	1212556	10
SF-PZSL 2-100 VDE	1212557	10
SF-PHSL 1-80 VDE	1212283	10
SF-PHSL 2-100 VDE	1212288	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
SZG 0,6X3,5 VDE	1205121	10
SZG 0,9X6,5 VDE	1205134	10

SCREWFOX torque screwdrivers



- Torque screwdrivers with hexagonal quick connection holder
- High-precision, finely adjustable torque screwdrivers according to EN ISO 6789
- TSD-M ... torque screwdrivers are adjustable from 0.3 - 6.0 Nm
- The figure below shows the other TSD-M 6NM version



Torque screw driver, 0.3 - 1.2 Nm, adjustable

ERIC

Description	Color
<b>Torque screwdrivers</b>	
Adjustable from 0.3 - 1.2 Nm	black
Adjustable from 1.2 - 3 Nm	black
Adjustable from 3 - 6 Nm	black

**Battery-powered screwdriver bit set**, 1 attachment set each in 5.5 mm, 8 mm, 13 mm, adapter to 1/4"

**Socket wrench insert**, magnetic, hexagonal, 1/4" drive, suitable for holders according to DIN 3126-F 6,3 / ISO 1173

- Wrench size of 5.5 mm
- Wrench size of 8 mm
- Wrench size of 10 mm
- Wrench size of 13 mm

**Adapter** for 1/4"

**Adapter insert**, for torque screwdrivers with adjustable torque, for accommodating SAC nuts for 4 mm hexagonal screwdrivers

Ordering data		
Type	Order No.	Pcs. / Pkt.
TSD-M 1,2NM	1212224	1
TSD-M 3NM	1212225	1
TSD-M 6NM	1212226	1

Accessories		
Type	Order No.	Pcs. / Pkt.
<b>ASD BIT SET HN</b>	1209952	1
<b>BHN 5,5</b>	1209965	1
<b>BHN 8</b>	1209978	1
<b>BHN 10</b>	1209981	1
<b>BHN 13</b>	1209994	1
<b>BF 6,3</b>	1209936	1
<b>TSD-M SAC-BIT ADAPTER</b>	1212600	1





## SCREWFOX cordless screwdriver



- Cordless screwdriver with two-speed gearbox, forward/reverse running and 21-stage clutch with drilling stage of up to 600 rpm
- 6.3 mm hexagonal quick connection drill chuck
- Integrated LEDs are used to illuminate the working area
- With optional snap-on protective cap to prevent unintentional torque adjustment
- High torque accuracy through electronic disconnecting coupling
- Ergonomic, non-slip handle design



21 different torque stages

## Description

**Cordless screwdriver**, 3.6 V, incl. rechargeable battery, 1.5 Ah

**Cordless screwdriver set**, incl. two batteries and charger, 230 V, packaged in a robust aluminum case

**Replacement charger**, for SF-ASD 21 cordless screwdriver, 230 V

**Replacement battery**, for SF-ASD 21, Li-ion 3.6 V, 1.5 Ah

## Ordering data

Type	Order No.	Pcs. / Pkt.
SF-ASD 21	1212532	1
SF-ASD 21 SET 230V	1212530	1

## Accessories

SF-ASD 21/CHARGER 230V	1212535	1
SF-ASD 21/ACCU 1,5 AH	1212533	1



Hand tools

SCREWFOX tool inserts for cordless screwdriver and bit handle



- Tools for SF-ASD 21 cordless screwdriver, various designs
- The hardened bits are suitable for hard and soft screws
- Optimum edge geometries increase the bearing surface and prevent the screws from being over-tightened

**Notes:**  
 Pozidriv®/Supadriv®, trademarks of European Ind. Serv. Ltd.  
 Phillips Recess®, trademark of Phillips Screw Company  
 Torx®, trademark of Acument Intellectual Properties, LLC, Troy, Mich.,US



Universal bit holder

Description	Color
<b>Bit screwdriver</b> , with 1/4" quick-action chuck, suitable for bits according to DIN 3126-C 6,3 and E 6,3/ISO 1173, magnetic	black
<b>Universal bit holder</b> , E6,3-1/4" drive, with automatic locking, one-hand operation, magnetic, for bits according to DIN 3126 C 6,3 and E 6,3	silver
<b>Screw bit</b> , slotted, E6,3-1/4" drive, hardened, suitable for holder according to DIN 3126-F 6,3/ISO 1173	silver
Size: 0.45 x 2.4 x 70 mm	silver
Size: 0.5 x 3.0 x 50 mm	silver
Size: 0.5 x 3.0 x 70 mm	silver
Size: 0.6 x 3.5 x 50 mm	silver
Size: 0.6 x 3.5 x 70 mm	silver
Size: 0.8 x 4.0 x 50 mm	silver
Size: 0.8 x 4.0 x 70 mm	silver
Size: 1.0 X 4.0 x 70 mm	silver
Size: 1.0 x 5.5 x 50 mm	silver
Size: 1.0 x 5.5 x 70 mm	silver
Size: 1.2 x 6.5 x 70 mm	silver
<b>Screw bit</b> , PH cross, E6,3-1/4" drive, hardened, suitable for holder according to DIN 3126-F 6,3/ISO 1173	silver
Size: PH 1 x 50 mm	silver
Size: PH 2 x 50 mm	silver
Size: PH 3 x 50 mm	silver
Size: PH 1 x 70 mm	silver
Size: PH 2 x 70 mm	silver
Size: PH 3 x 70 mm	silver
<b>Screw bit</b> , PZ cross, E6,3-1/4" drive, hardened, suitable for holder according to DIN 3126-F 6,3/ISO 1173	silver
Size: PZ 1 x 50 mm	silver
Size: PZ 2 x 50 mm	silver
Size: PZ 3 x 50 mm	silver
Size: PZ 1 x 70 mm	silver
Size: PZ 2 x 70 mm	silver
Size: PZ 3 x 70 mm	silver
Size: PZ 1 x 70 mm	silver
Size: PZ 2 x 70 mm	silver
Size: PH 1 x 70 mm	silver
Size: PH 2 x 70 mm	silver
<b>Screw bit</b> , slotted, graduated, E6,3-1/4" drive, for test socket screws, hardened, suitable for holder according to DIN 3126-F 6,3/ISO 1173	silver
Size: 0.6 x 3.5 x 50 mm	silver
Size: 0.9 x 6.5 x 50 mm	silver

Ordering data		
Type	Order No.	Pcs. / Pkt.
SF-M BH	1212070	1
SF-UBH	1212590	1





Screw bit, slotted



Screw bit, PH and PZ cross-recessed



Screw bit, plus/minus

Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
SF-BIT-SL 0,45X2,4-70	1212607	5						
SF-BIT-SL 0,5X3,0-50	1212566	5						
SF-BIT-SL 0,5X3,0-70	1212567	5						
SF-BIT-SL 0,6X3,5-50	1212568	5						
SF-BIT-SL 0,6X3,5-70	1212569	5						
SF-BIT-SL 0,8X4,0-50	1212571	5						
SF-BIT-SL 0,8X4,0-70	1212572	5						
SF-BIT-SL 1,0X4,0-70	1212754	1						
SF-BIT-SL 1,0X5,5-50	1212574	5						
SF-BIT-SL 1,0X5,5-70	1212575	5						
SF-BIT-SL 1,2X6,5-70	1212577	5						
			SF-BIT-PH 1-50	1212579	5			
			SF-BIT-PH 2-50	1212580	5			
			SF-BIT-PH 3-50	1212581	5			
			SF-BIT-PH 1-70	1212582	5			
			SF-BIT-PH 2-70	1212583	5			
			SF-BIT-PH 3-70	1212584	5			
			SF-BIT-PZ 1-50	1212591	5			
			SF-BIT-PZ 2-50	1212592	5			
			SF-BIT-PZ 3-50	1212593	5			
			SF-BIT-PZ 1-70	1212594	5			
			SF-BIT-PZ 2-70	1212595	5			
			SF-BIT-PZ 3-70	1212596	5			
						SF-BIT-PZSL 1-70	1212603	5
						SF-BIT-PZSL 2-70	1212604	5
						SF-BIT-PHSL 1-70	1212479	5
						SF-BIT-PHSL 2-70	1212601	5
SF-BIT-SLS 0,6X3,5-50	1212605	5						
SF-BIT-SLS 0,9X6,5-50	1212606	5						

Hand tools

SCREWFOX tool inserts for cordless screwdriver and bit handle



- Tools for SF-ASD 21 cordless screwdriver, various designs
- The hardened bits are suitable for hard and soft screws
- Optimum edge geometries increase the bearing surface and prevent the screws from being over-tightened



Screw bit, Torx®

		Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.
<b>Screw bit, Torx®, E6,3-1/4" drive, hardened, suitable for holder according to DIN 3126-F 6,3 / ISO 1173, size: TX 8 x 50 mm</b>				
Size: TX 10 x 50 mm	silver	<b>SF-BIT-TX 8-50</b>	<b>1212570</b>	5
Size: TX 15 x 50 mm	silver	<b>SF-BIT-TX 10-50</b>	<b>1212573</b>	5
Size: TX 20 x 50 mm	silver	<b>SF-BIT-TX 15-50</b>	<b>1212576</b>	5
Size: TX 25 x 50 mm	silver	<b>SF-BIT-TX 20-50</b>	<b>1212578</b>	5
Size: TX 30 x 50 mm	silver	<b>SF-BIT-TX 25-50</b>	<b>1212585</b>	5
		<b>SF-BIT-TX 30-50</b>	<b>1212586</b>	5
<b>Screw bit, hexagonal, E6,3-1/4" drive, hardened, suitable for holder according to DIN 3126-F6,3/ISO 1173</b>				
Size: hex 2 x 50 mm	silver			
Size: hex 2.5 x 50 mm	silver			
Size: hex 3 x 50 mm	silver			
Size: hex 4 x 50 mm	silver			
Size: hex 5 x 50 mm	silver			
Size: hex 6 x 50 mm	silver			
Size: hex 8 x 50 mm	silver			



Screw bit, hex

## Ordering data

Type	Order No.	Pcs. / Pkt.
SF-BIT-HEX 2-50	1212645	5
SF-BIT-HEX 2,5-50	1212646	5
SF-BIT-HEX 3-50	1212647	5
SF-BIT-HEX 4-50	1212648	5
SF-BIT-HEX 5-50	1212649	5
SF-BIT-HEX 6-50	1212650	5
SF-BIT-HEX 8-50	1212651	5

### SCREWFOX socket wrenches



#### SHN ...

- Ergonomically designed two-component grip for fatigue-proof and non-slip use

#### SF-THEX ...

- Ergonomically designed handles ensure an optimum grip and help avoid fatigue when working
- The hardened blades are designed for durability
- Optimum edge geometries increase the bearing surface and prevent the screws from being over-tightened

#### VDE-ISS ...

- VDE-insulated Allen wrench with double-layer insulation, for twice as much safety

#### Allen screw set

- Offset screwdriver set in convenient holder
- The strict fabrication tolerances and special hardening process ensure reliability and optimum work results
- The ball head on the long limb makes it possible to carry out work in hard-to-access areas



Hexagon insert bit, wrench size of 5.5 / 8 / 13 mm

#### Description

##### Socket wrench, hexagon

Wrench size of 5.5 mm

Wrench size of 8 mm

Wrench size of 13 mm

##### T-handle screwdriver, for Allen screws, ergonomically shaped handle, matt chrome-plated

Size: hex 2 x 100 mm

Size: hex 2.5 x 100 mm

Size: hex 3 x 100 mm

Size: hex 4 x 150 mm

Size: hex 5 x 150 mm

Size: hex 6 x 200 mm

Size: hex 8 x 200 mm

Size: hex 10 x 200 mm

##### Allen wrench, fully insulated, safety tool in accordance with EN 60900, length: 150 mm, handle width: 110 mm

Wrench size 5 mm, for M6 screws

Wrench size 6 mm, for M8 screws

Wrench size 8 mm, for M10 screws

##### Allen wrench set, 9-part, 1.5 to 10.0 mm, chrome-plated matt finish, with ball head, incl. bracket

#### Ordering data

Type	Order No.	Pcs. / Pkt.
SHN 5.5	1209855	10
SHN 8	1209868	1
SHN 13	1209923	1



Allen screw, wrench size 2 - 10 mm



Allen screw (VDE), wrench size of 5 / 6 / 8 mm



Allen screw, L-shaped, 1.5 - 10 mm



Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
SF-THEX 2-100	1212637	5						
SF-THEX 2,5-100	1212638	5						
SF-THEX 3-100	1212639	5						
SF-THEX 4-150	1212640	5						
SF-THEX 5-150	1212641	5						
SF-THEX 6-200	1212642	5						
SF-THEX 8-200	1212643	5						
SF-THEX 10-200	1212644	5						
			VDE-ISS 5	1203343	1			
			VDE-ISS 6	1201934	1			
			VDE-ISS 8	1201947	1			
						SF-LHEX SET	1212544	1

Hand tools

SCREWFOX preset torque screwdrivers



- TSD ... SAC torque screwdrivers with a range of preset torques from 0.2 Nm to 2.5 Nm
- A wide variety of SAC ... nuts for all kinds of applications
- With the TSD-M... torque screwdrivers, the torque can be custom-set
- The TSD-M... adapters can accommodate the various nuts



ERC

Description	Color
<b>Torque screwdriver</b> With preset torque of 0.2 Nm and 4 mm hexagonal drive	black
With preset torque of 0.4 Nm and 4 mm hexagonal drive	black
With a preset torque of 0.8 Nm and a 4 mm hexagonal drive	black
With a preset torque of 2.0 Nm and 4 mm hexagonal drive	black
With a preset torque of 2.5 Nm and 4 mm hexagonal drive	black
<b>Torque screwdrivers</b> Adjustable from 0.3 - 1.2 Nm	black
Adjustable from 1.2 - 3 Nm	black
Adjustable from 3 - 6 Nm	black
<b>Adapter insert</b> , for torque screwdrivers with adjustable torque, for accommodating SAC nuts for 4 mm hexagonal screwdrivers	silver

Ordering data		
Type	Order No.	Pcs. / Pkt.
TSD 02 SAC	1208487	1
TSD 04 SAC	1208429	1
TSD 08 SAC	1212597	1
TSD 20 SAC	1212020	1
TSD 25 SAC	1212315	1
TSD-M 1,2NM	1212224	1
TSD-M 3NM	1212225	1
TSD-M 6NM	1212226	1
TSD-M SAC-BIT ADAPTER	1212600	1

Nut
For assembling sensor/actuator cables with M8 connectors and for M8 connectors with insulation displacement connection, for 4 mm hexagonal screwdriver
For assembling SACC M8 connectors with longitudinal knurl, excluding those with insulation displacement connection, for 4 mm hexagonal screwdriver
For assembling sensor/actuator cables with M12 connectors and for M12 connectors with insulation displacement connection, for 4 mm hexagonal screwdriver
For assembling SACC M12 connectors, excluding those with insulation displacement connection, for 4 mm hexagonal screwdriver
For mounting M12 connectors with hexagonal stainless steel knurl, wrench size 14, with 4 mm hexagonal drive
For assembling 7/8" connectors, with 4 mm hexagonal drive
For the reliable tightening of the pressure nuts with a wrench size of 13 mm, for 4 mm hexagonal screwdriver
For reliable tightening of the pressure nuts with a wrench size of 24 mm, for 4 mm hexagonal screwdriver

Accessories		
Type	Order No.	Pcs. / Pkt.
SAC BIT M8-D10	1208461	1
SACC BIT M8-D12	1208474	1
SAC BIT M12-D15	1208432	1
SACC BIT M12-D20	1208445	1
SAC BIT M12-W14	1212513	1
SAC BIT MIN-D25	1212512	1
SAC BIT QUICKON-W13	1212033	1
SAC BIT HOOD-W 24	1212486	1



### SCREWFOX universal control cabinet key



1



2



3

– Universal control cabinet key with the following closures:

- 1 = 6 mm, 8 mm square
- 2 = 8 mm triangle
- 3 = 5 mm two-way key bit



Four-way closure

Description
Control cabinet key, metal, for all common types of control cabinet

Ordering data		
Type	Order No.	Pcs. / Pkt.
USS 4	1203149	1

### SCREWFOX universal control cabinet key



1



2



3



4

– Universal control cabinet key, with strong chain and snap hook, for the following closures:

- 1 = 5, 6, 7-8, 9-10 mm square
- 2 = 7, 8 - 9, 10 - 11 mm triangle
- 3 = 3-5 mm two-way key bit
- 4 = 6 mm semicircle



Nine-way closure

Description
Control cabinet key, metal, for all common types of control cabinet

Ordering data		
Type	Order No.	Pcs. / Pkt.
SF-CCK 9	1212525	1

## Hand tools

### TESTFOX phasing and voltage tester

The PROFIPOL voltage tester has the following features:

- DC and AC voltage tests in the range between 6 V and 400 V
- Polarity test (+/-) for DC voltage
- Shock-proof housing that is protected against dust and splash water, IP65
- LED display



Single-position voltage tester



Two-position voltage tester

#### General data

Voltage range	[V DC]	- ... -
Voltage range	[V AC]	150 ... 250

Description	Color
-------------	-------

**Voltage tester**, single-position, for 150 - 250 V, conforms to DIN 57680/6 and VDE 0680/6, can also be used as an actuation tool for spring-cage terminal blocks, VDE insulated, with non-slip grip, size: 0.5 x 3.0 x 70 mm

<b>Voltage tester</b>	black
-----------------------	-------

#### Technical data

Voltage range	[V DC]	- ... -
Voltage range	[V AC]	150 ... 250

#### Ordering data

Type	Order No.	Pcs. / Pkt.
SF-VT VDE	1212598	10

#### Technical data

Voltage range	[V DC]	6 ... 400
Voltage range	[V AC]	6 ... 400

#### Ordering data

Type	Order No.	Pcs. / Pkt.
PROFIPOL	1209101	1

### TESTFOX voltage and continuity tester



- DC and AC voltage tests in the range from 12 V to 1000 V AC/1000 V DC
- Acoustic and optical continuity test
- Vibration alarm for safe voltage detection
- Shock-proof housing that is protected against dust and splash water, IP65



#### Technical data

<b>General data</b>		
Voltage range	[V DC]	12 ... 1000
Voltage range	[V AC]	12 ... 1000

#### Ordering data

Description	Color
<b>Voltage tester</b>	black

Type	Order No.	Pcs. / Pkt.
DUSPOL EXPERT	1209091	1

**TESTFOX, digital current probe multimeter**

- The current probes can be used for voltages of up to 600 V, category III
- They combine the functions of a digital multimeter with those of a current probe
- Contained within a compact and practical housing, so ideal for use in cramped conditions
- All measuring ranges are protected against overload



For AC current



For DC and AC current



Technical data	
Display scope	2000 digits
Accuracy of display	1,0 %
AC voltage measuring range	0.1 V ... 600 V
DC voltage measuring range	0.1 V ... 600 V
AC current measuring range	0.1 A ... 400 A
DC current measuring range	- ... -
Resistance measuring range	0.1 Ω ... 20 MΩ
Continuity test range	Acoustic (20 Ω)
Degree of protection	IP30
Measuring category	CAT III 600 V
Voltage supply	2 x micro battery 1.5 V, LR03, AAA
Test certificate	IEC/EN 61010-1, DIN VDE 0411

Ordering data		
Type	Order No.	Pcs. / Pkt.
TESTFOX CC	1212210	1



Technical data	
Display scope	4000 digits
Accuracy of display	0,5 %
AC voltage measuring range	0.1 mV ... 600 V
DC voltage measuring range	0.1 mV ... 600 V
AC current measuring range	10 mA ... 300 A
DC current measuring range	10 mA ... 300 A
Resistance measuring range	0.1 Ω ... 40 MΩ
Continuity test range	Acoustic (50 Ω)
Degree of protection	IP30
Measuring category	CAT III 300 V / CAT II 600 V
Voltage supply	2 x micro battery 1.5 V, LR03, AAA
Test certificate	IEC/EN 61010-1, DIN VDE 0411

Ordering data		
Type	Order No.	Pcs. / Pkt.
TESTFOX CC-1	1212211	1

**General data**

Display scope	2000 digits
Accuracy of display	1,0 %
AC voltage measuring range	0.1 V ... 600 V
DC voltage measuring range	0.1 V ... 600 V
AC current measuring range	0.1 A ... 400 A
DC current measuring range	- ... -
Resistance measuring range	0.1 Ω ... 20 MΩ
Continuity test range	Acoustic (20 Ω)
Degree of protection	IP30
Measuring category	CAT III 600 V
Voltage supply	2 x micro battery 1.5 V, LR03, AAA
Test certificate	IEC/EN 61010-1, DIN VDE 0411

Description	Color
Current pliers/multimeter	black
Current pliers/multimeter	black

TESTFOX digital multimeter



For DC and AC voltages

- You are bound to be enthused by the technology of the digital multimeters and impressed by their quality
- The devices are extremely versatile
- Tested and approved according to applicable IEC/EN 61010 standards independently of certification body
- Suitable for measuring AC voltages and resistance as well as testing continuity and diodes
- TESTFOX M-1 also allows you to measure DC and AC currents, capacitance, and frequencies, as well as temperatures within the range of -20°C to +800°C

**High-level safety**

- Phase voltages can be detected precisely, thanks to the audible and red light signals
- The devices can be used for voltages of up to 600 V category III or 1000 V category II
- They provide professional service technicians and operating engineers with a higher level of protection, thereby ensuring maximum safety during work

**Safe cable breakage detection**

- Cable breaks and faulty lamps in exposed cables can be traced from the phase infeed side right through to the point of interruption

**General data**

Display scope  
 Accuracy of display  
 Volt sensor  
 AC voltage measuring range  
 DC voltage measuring range  
 AC current measuring range  
 DC current measuring range  
 Resistance measuring range  
 Continuity test range  
 Frequency measuring range  
 Capacity measuring range  
 Temperature measuring range  
 Diode test  
 Degree of protection  
 Measuring category  
 Voltage supply  
 Test certificate

ERC

**Technical data**

2000 digits  
 0.5 %  
 yes  
 0.1 mV ... 750 V  
 0.1 mV ... 1000 V  
 - ... -  
 - ... -  
 0.1 Ω ... 20 MΩ  
 Yes (25 Ω)  
 - ... -  
 - ... -  
 - ... -  
 Yes (1.5 mA)  
 IP30  
 CAT III 600 V / CAT II 1000 V  
 2 x micro battery 1.5 V, LR03, AAA  
 IEC/EN 61010-1, DIN VDE 0411

**Ordering data**

Description	Color
Digital multimeter	black
Digital multimeter	black

Type	Order No.	Pcs. / Pkt.
TESTFOX M	1212208	1



For DC and AC voltages/currents



#### Technical data

2000 digits  
 0.5 %  
 yes  
 0.1 mV ... 750 V  
 0.1 mV ... 1000 V  
 1 mA ... 10 A  
 1 mA ... 10 A  
 0.1  $\Omega$  ... 20 M $\Omega$   
 Yes (25  $\Omega$ )  
 1 Hz ... 20 MHz  
 1.00 pF ... 2.00 mF  
 -20°C ... 800°C  
 Yes (1.5 mA)  
 IP30  
 CAT III 600 V / CAT II 1000 V  
 2 x micro battery 1.5 V, LR03, AAA  
 IEC/EN 61010-1, DIN VDE 0411

#### Ordering data

Type	Order No.	Pcs. / Pkt.
TESTFOX M-1	1212209	1

# Tools - TOOL fox

## Hand tools

### TOOL fox, tool sets for convenient use on site

- Universal tool sets, with cutting, stripping, crimping, and testing tools from the TOOL fox tool range
- Robust and heavy-duty tool bags for long-term use
- With permanently closeable business card pocket
- With various compartments and options for storing tools and materials
- For further sets, visit [phoenixcontact.net/products](http://phoenixcontact.net/products)



Tool set in a case



Tool set in a carry case wrap

Description	Ordering data			Ordering data		
	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
<b>Tool case</b> , equipped with one of each of the following tools: CRIMPFOX 6S-F   WIREFOX 10   WIREFOX-D 40   CUTFOX 18   SZF 1-0,6X3,5   5 m tape measure   50 pcs. JBC 2,5/5 junction box connectors   TOOL-KIT STANDARD EMPTY	TOOL-KIT STANDARD	1212422	1			
<b>Tool kit</b> , empty, with elastic straps to hold tools of different sizes in place	TOOL-KIT STANDARD EMPTY	1212423	1			
<b>Tool carry case wrap</b> , equipped with one of each of the following tools: CUTFOX-S VDE   CUTFOX 16 VDE   UNIFOX-C VDE   UNIFOX-P VDE   SZS 0,4X2,5   SZS 0,5X3,0   SZS 1,0X4,0   SZS 1,0X6,5   SZK PH0   SZK PH1   SZK PH2   PROFIPOL   TOOL-WRAP EMPTY				TOOL-WRAP	1212505	1
<b>Tool carry-on bag</b> , empty				TOOL-WRAP EMPTY	1212501	1
<b>Tool belt pouch</b> , equipped with one of each of the following tools: CUTFOX-S VDE   CUTFOX 18   WIREFOX-D 13   UNIFOX-CE VDE   USS 4   SZS 0,5X3,0   SZS 1,0X4,0   SZS 1,0X5,5   SZK PH1   SZK PH2   Cutting knife   5 m tape measure   PROFIPOL   TOOL-BELTPOUCH EMPTY						
<b>Tool bag</b> , equipped with one of each of the following tools: CUTFOX S VDE   CUTFOX 18   WIREFOX 10 VDE   WIREFOX-D 13   WIREFOX-D 28   CRIMPFOX-M   CRIMPFOX-M 10/DIE   UNIFOX-CE VDE   UNIFOX-P VDE   UNIFOX WP   SZS 0,4X2,5   SZS 0,5X3,0   SZS 1,0X4,0   SZS 1,0X6,5   SZK PH0   SZK PH1   SZK PH2   PROFIPOL   USS 4   Cutting knife   5 m tape measure   TOOL CARRIER EMPTY						
<b>Tool bag</b> , with laptop and document compartments, equipped with one of each of the following tools: CUTFOX 25 VDE   CUTFOX-S VDE   WIREFOX 10   WIREFOX-D 40   CRIMPFOX-M SET   UNIFOX-C VDE   UNIFOX-P VDE   UNIFOX WP   SZS 0,4X2,5   SZS 0,5X3,0   SZS 1,0X4,0   SZS 1,0X6,5   SZK PH0   SZK PH1   SZK PH2   DUSPOL EXPERT   USS 4   AI SORTI BOX RD   Cutting knife   5 m tape measure   TOOL-BAG EMPTY						
<b>Tool bag</b> , with document and laptop compartments, empty						



Tool set in a belt pouch



Tool set in a shoulder bag



Tool set in a bag with laptop and document compartments

Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
TOOL-BELTPOUCH	1212506	1						
TOOL-BELTPOUCH EMPTY	1212502	1						
			TOOL-CARRIER	1212503	1			
			TOOL-CARRIER EMPTY	1212499	1			
						TOOL-BAG	1212504	1
						TOOL-BAG EMPTY	1212500	1

# Tools - TOOL fox

## Hand tools

### TOOL fox, tool sets

- We have put together a number of attractive tool sets for you by selecting products from our comprehensive range of professional tools



Ordering data			
Description	Type	Order No.	Pcs. / Pkt.
<p><b>Stripping, crimping and cutting set</b>, consisting of: cable cutter for copper and aluminum up to Ø 12 mm, stripping tool for stripping multicore signal, control and fiberglass wires of Ø 2.5 – 11 mm, insulation thickness up to 1 mm, basic pliers for accommodating dies for different contact types, die, for CRIMPFOX-M, for unshielded RJ45 connectors</p>			
<p><b>Cutting, stripping, and crimping set</b>, comprising: cable cutter for copper and aluminum up to Ø 12 mm, stripping tool for cables and conductors with a cross section of 0.02 – 10 mm<sup>2</sup>, self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm<sup>2</sup> stranded/1.5 mm<sup>2</sup> solid, crimping pliers for ferrules measuring 0.14 – 10 mm<sup>2</sup></p>	TOOL DATA SET	1208856	1
<p><b>Stripping, crimping, and screwing set</b>, comprising: screwdriver for slotted-head screws, stripping tool for 0.02 – 10 mm<sup>2</sup> cables and conductors, self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm<sup>2</sup> stranded/1.5 mm<sup>2</sup> solid, crimping pliers for ferrules acc. to DIN 46228 Parts 1+4, 0.5 – 6 mm<sup>2</sup>, front insertion, square crimping ferrules, CSA-certified, 50 pcs. each of: Al 0,5-8 WH, Al 2,5-8 BU ferrules, CSA-certified, 100 pcs. each of: Al 0,75-8 GY, Al 1-8 RD, Al 1,5-8 BK</p>			
<p><b>Range box</b>, made of metal, equipped with ferrules in accordance with DIN 46228-4: 1990-09, CSA-certified 500 pieces each of Al 0,25-6 YE, Al 0,34-6 TQ, Al 0,5-8 WH, Al 0,75-8 GY, Al 1-8 RD, Al 1,5-8 BK, 300 pieces of Al 2,5-8 BU, 200 pieces of Al 4-10 GY, 100 pieces of Al 6-12 YE as well as stripping tool for wires and conductors of up to 6 mm<sup>2</sup> crimp pliers for ferrules in accordance with DIN 46228, Part 1+4, 0.5 – 6 mm<sup>2</sup>, front insertion, trapezoidal crimp</p>			
<p><b>Range box</b>, made of metal, equipped with ferrules in accordance with DIN 46228-4: 1990-09, CSA-certified 300 pieces of Al 10-12 RD, 200 pieces of Al 16-12 BU, 100 pieces of Al 25-16 YE as well as stripping tool, for stripping wires of 4,5 - 40 mm, crimp pliers for ferrules in accordance with DIN 46228, Part 1+4, 10 - 25 mm<sup>2</sup>, lateral insertion, WM crimp</p>			
<p><b>Assortment box</b>, metal, no components mounted</p>			



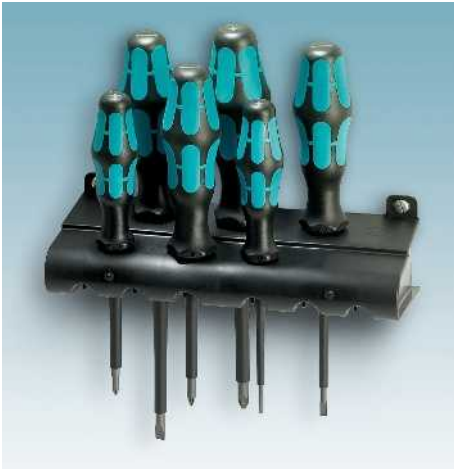


ERC

Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
TOOL SET ALLROUND 2	1208843	1						
			TOOL-SET ALLROUND 3	1208953	1			
						CRIMPSET 6	1202072	1
						CRIMPSET 25	1202580	1
						CRIMPSET 6/25 LEER	1204041	1

Hand tools

TOOL fox, screwdriver set



- The SF-SL ... screwdriver sets are available with a variety of contents
- Wall-mountable screwdriver rack included

**Notes:**  
 Pozidriv®/Supadriv®, trademarks of European Ind. Serv. Ltd.  
 Phillips Recess®, trademark of Phillips Screw Company  
 Torx®, trademark of Acument Intellectual Properties, LLC, Troy, Mich.,US



Description
<b>Screwdriver set</b> , slotted/Phillips Recess® 6-part, incl. rack, contents: 0.5 x 3.0 x 80; 0.8 x 4.0 x 100; 1.0 x 5.5 x 150; 1.2 x 6.5 x 150, PH 1, PH 2
<b>Screwdriver set</b> , slotted/Pozidriv® cross-recessed, 6-part, incl. rack, contents: 0.5 x 3.0 x 80; 0.8 x 4.0 x 100; 1.0 x 5.5 x 150; 1.2 x 6.5 x 150, PZ 1, PZ 2
<b>Screwdriver set</b> , slotted/Pozidriv® cross-recessed, VDE insulated, 6-part, incl. rack, contents: 0.4 x 2.5 x 80; 0.6 x 3.5 x 100; 0.8 x 4.0 x 100; 1.0 x 5.5 x 125; PZ 1, PZ 2
<b>Screwdriver set</b> , slotted/Phillips Recess®, VDE insulated, 6-part, incl. rack, contents: 0.4 x 2.5 x 80; 0.6 x 3.5 x 100; 0.8 x 4.0 x 100; 1.0 x 5.5 x 125; PH 1, PH 2
<b>Screwdriver set</b> , protective insulation integrated into shaft, bladed/Phillips crosshead/combined profile, Pozidriv® + bladed (plus-minus), insulated according to VDE, 7-piece, including rack, set contains the following products: 0.6 x 3.5 x 100; 0.8 x 4.0 x 100; 1.0 x 5.5 x 125; PH1 x 80; PH2 x 100; PZ1 x 80; PZ2 x 100
<b>Screwdriver set</b> , Torx® with drill bit, 6-part, incl. rack, contents: TX 8 x 60; TX 10 x 80; TX 15 x 80; TX 20 x 100; TX 25 x 100; TX 30 x 115
<b>Screwdriver set</b> , Torx®, VDE insulated, 6-part, incl. rack, contents: TX 8 x 80; TX 10 x 80; TX 15 x 80; TX 20 x 80; TX 25 x 100; TX 30 x 100

Ordering data		
Type	Order No.	Pcs. / Pkt.
SF-SL/PH SET	1212541	1
SF-SL/PZ SET	1212542	1
SF-SL/PZ SET VDE	1212540	1
SF-SL/PH SET VDE	1212539	1
SF-SL/PH/PZ-SL SET S-VDE	1212701	1
SF-TXH SET	1212538	1
SF-TX SET VDE	1212537	1



## TOOL fox, bit set



- Bit set, in compact plastic box, with quick-change bit holder and the following 25 mm long bits: 0.8 x 5.5, 1.0 x 5.5, 1.2 x 6.5, PH1, PH2, PH3, PZ1, PZ2, PZ3
- Clearly arranged storage
- Bits can be accessed quickly, thanks to convenient, one-handed opening mechanism
- Equipped with hardened bits for durability



## Description

**Bit set**, with SF-UBH universal bit holder, 25 mm long slotted/cross-recessed (PZ and PH) bits, 10-part

**Battery-powered screwdriver bit set**, 1 attachment set each in 5.5 mm, 8 mm, 13 mm, adapter to 1/4"

## Ordering data

Type	Order No.	Pcs. / Pkt.
SF-BIT SET	1212545	10
ASD BIT SET HN	1209952	1

## TOOL fox, screwdriver set



- Bit screwdriver set, packed in a practical belt pouch
- Equipped with the most common types of screw bit



## Description

**Bit screwdriver set with quick-action chuck**, 89 mm long slotted/cross-recessed (PZ and PH)/hex / Torx® bits, 17-part, in folding belt pouch, contents: PH 1,2,3 x 89; PZ 1,2,3 x 89; SL 1.5 x 5.5 x 89; TX 10-30 x 89; SW 3,4,5,6 x 89

**Bit screwdriver set with quick-action chuck**, 89 mm long slotted/crosshead/hex/Torx® bits, 17-piece, in folding belt pouch, contents: PH 1, 2, 3 x 89, SL 0.4 x 2.5, 0.6 x 3.5, 0.8 x 3.5, 1.0 x 5.5, 1.2 x 6.5 x 89, TX 10-30, SW 3, 4, 5 x 89

## Ordering data

Type	Order No.	Pcs. / Pkt.
SF-M SET	1212543	1
SF-M SET 2	1212756	1

## Hand tools

### CRIMPFOX pliers, laser marked according to customer specifications



- Customize your crimping tool!
- You can now use robust laser engraving to mark CRIMPFOX pliers
- Individual laser marking prevents your tools from being mixed up

#### Notes:

Matching accessories can be found in main catalog 5 or the product area on our website at [phoenixcontact.net/products](http://phoenixcontact.net/products).

<sup>1)</sup> Tools with customer-specific laser marking can be ordered quickly and easily in the product area on our website at [phoenixcontact.net/products](http://phoenixcontact.net/products).

- The advantages of our CRIMPFOX tools:
- Consistently high crimping quality
  - Unlockable pressure lock
  - Marked die stations for precise processing of the relevant cross sections
  - Easy work, thanks to improved force transfer
  - Ergonomically designed, non-slip handles

#### Description

**Crimping pliers**, for ferrules, according to DIN 46228-1 and -4, five marked die stations, **laser marked according to customer specifications<sup>1)</sup>**

Lateral entry, 0.25 - 6.0 mm<sup>2</sup>, unlockable pressure lock, trapezoidal crimp

Front insertion, 0.5 - 6 mm<sup>2</sup>, square crimp

**Crimping pliers**, unlockable pressure lock, lateral entry, oval crimp, **laser marked according to customer specifications<sup>1)</sup>**

For insulated cable lugs (light green, red), 0.14 - 1 mm<sup>2</sup>, three marked die stations

For insulated cable lugs (red, blue), 0.75 - 2.5 mm<sup>2</sup>, two marked die stations

**Crimping pliers**, for uninsulated cable lugs, three marked die stations, 0.34 - 2.5 mm<sup>2</sup>, unlockable pressure lock, lateral entry, indent crimp, **laser marked according to customer specifications<sup>1)</sup>**

**Crimping pliers**, for uninsulated slip-on sleeves 2.8/4.8/6.3 mm, three marked die stations, B-crimp, 0.1 - 1.5 mm<sup>2</sup>, unlockable pressure lock, lateral entry, **laser marked according to customer specifications<sup>1)</sup>**

**Crimping pliers**, for ferrules according to DIN 46228-1 and -4, self-adjusting die, trapezoidal crimp, 0.5 - 6 mm<sup>2</sup>, unlockable pressure lock, **laser marked according to customer specifications<sup>1)</sup>**

Front insertion

Lateral entry

**Crimping pliers**, three marked die stations, 0.75 - 6 mm<sup>2</sup>, oval crimp, unlockable pressure lock, lateral entry, **laser marked according to customer specifications<sup>1)</sup>**

For insulated cable lugs, symmetrical (red, blue, yellow)

For insulated cable lugs, asymmetrical (red, blue, yellow)

**Crimping pliers**, for ferrules according to DIN 46228-1 and -4, WM crimp, unlockable pressure lock, lateral entry, **laser marked according to customer specifications<sup>1)</sup>**

Three marked die stations, 10 - 25 mm<sup>2</sup>

Two marked die stations, 35 - 50 mm<sup>2</sup>

TOOLS FOR YOU



TOOLS FOR YOU



TOOLS FOR YOU



Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
CRIMPFOX 6 CUS	1212767	1						
CRIMPFOX 6S-F CUS	1212769	1						
CRIMPFOX-RCI 1 CUS	1212772	1						
CRIMPFOX-RCI 2,5 CUS	1212773	1						
CRIMPFOX-RC 2,5 CUS	1212777	1						
CRIMPFOX-SC 1,5 CUS	1212779	1						
			CRIMPFOX 6T-F CUS	1212771	1			
			CRIMPFOX 6T CUS	1212770	1			
						CRIMPFOX-RCI 6 CUS	1212774	1
						CRIMPFOX-RCI 6-1 CUS	1212775	1
						CRIMPFOX 25R CUS	1212765	1
						CRIMPFOX 50R CUS	1212766	1

## Hand tools

### CRIMPFOX and WIREFOX pliers, laser marked according to customer specifications



- Customize your crimping and stripping tool!
- You can now use robust laser engraving to mark CRIMPFOX and WIREFOX pliers
- Individual laser marking prevents your tools from being mixed up

#### Notes:

Matching accessories can be found in main catalog 5 or the product area on our website at [phoenixcontact.net/products](http://phoenixcontact.net/products).

<sup>1)</sup> Tools with customer-specific laser marking can be ordered quickly and easily in the product area on our website at [phoenixcontact.net/products](http://phoenixcontact.net/products).

- The advantages of our WIREFOX tools:
- The special spring mechanism helps you to work precisely and safely
  - Ergonomically designed, non-slip handles
  - The WIREFOX pliers automatically adjust to different insulations and conductor diameters
  - Highly adjustable limit stop for the stripping length
  - Practical integrated wire cutter
  - Easily replaceable blade cassettes for different cross sections and insulation

#### Description

**Crimping pliers**, for uninsulated cable lugs, three marked die stations, indent crimp, unlockable pressure lock, lateral entry, **laser marked according to customer specifications<sup>1)</sup>**

4 - 10 mm<sup>2</sup>  
10 - 25 mm<sup>2</sup>

**Crimping pliers**, for uninsulated slip-on sleeves 2.8/4.8/6.3 mm, three marked die stations, 0.5 - 6 mm<sup>2</sup>, B-crimp, unlockable pressure lock, lateral entry, **laser marked according to customer specifications<sup>1)</sup>**

**Crimping pliers**, for ferrules according to DIN 46228, unlockable pressure lock, lateral entry, **laser marked according to customer specifications<sup>1)</sup>**

Square crimp, 0.14 - 10 mm<sup>2</sup>

HEX crimp, 0.14 - 6 mm<sup>2</sup>

**Stripping tool**, self-adjusting, easily replaceable blade cassettes, stripping length of up to 18 mm, cutting capacity: up to 1.5 mm<sup>2</sup> solid, up to 10 mm<sup>2</sup> stranded, **laser marked according to customer specifications<sup>1)</sup>**

For cables and conductors from 0.1 - 4 mm<sup>2</sup>, specifically also intended for rubber and other kinds of special insulation

For cables and conductors from 1.5 - 6 mm<sup>2</sup>, specifically for short-circuit-proof cables and rubber insulation

For standard cables and conductors from 0.02 - 10 mm<sup>2</sup>

For standard cables and conductors from 4 - 16 mm<sup>2</sup>

TOOLS FOR YOU



TOOLS FOR YOU



TOOLS FOR YOU



Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
CRIMPFOX-RC 10 CUS	1212776	1						
CRIMPFOX-RC 25 CUS	1212778	1						
CRIMPFOX-SC 6 CUS	1212780	1						
			CRIMPFOX 10S CUS	1212764	1			
			CRIMPFOX 6H CUS	1212768	1			
						WIREFOX 4 CUS	1212762	1
						WIREFOX 6SC CUS	1212763	1
						WIREFOX 10 CUS	1212760	1
						WIREFOX 16 CUS	1212761	1

# Tools - TOOL fox

## Hand tools

### CUS tool sets, equipped with tools according to customer requirements



You can put together your own CUS tool set according to your individual requirements

- Six different bags are available, designed for typical applications
- Products are configured and ordered with web code:

**i** #0290

**TOOLS FOR YOU**



Tool case, lockable, with straps

#### Description

**Toolbox**, lockable, with adjustable strap, equipped with: cable cutter, diagonal cutter, micro cutter, stripping and sheath stripping tools, crimping tool set, combination, needle-nose, and water pump pliers, VDE bladed and Phillips screwdrivers, control cabinet key, voltage tester, ferrule box, blades, tape measure, continuity tester, marking tool, ring, open-end, and adjustable wrench set, T-handle hexagonal wrench, safety glasses, hammer, 41-piece ratchet socket wrench set, 1/4"

**Tool case**, empty, lockable, with permanently closeable business card pocket, very comfortable to carry thanks to padded strap, with document compartment

**Tool case**, equipped with tools according to customer requirements

#### Ordering data

Type	Order No.	Pcs. / Pkt.
TOOL-CASE	1212629	1
TOOL-CASE EMPTY	1212628	1
TOOL-CASE CUS	1200072	1

### CUS tool sets, equipped with tools according to customer requirements

- Products are configured and ordered with web code:

**i** #0290

**TOOLS FOR YOU**



Tool bag, with document and laptop compartments

**TOOLS FOR YOU**



Tool bag, with strap

#### Ordering data

Type	Order No.	Pcs. / Pkt.
TOOL-BAG CUS	1200081	1

#### Description

**Tool bag**, with adjustable straps, with document and laptop compartments, equipped with tools according to customer requirements

**Tool bag**, with strap, equipped with tools according to customer requirements

#### Ordering data

Type	Order No.	Pcs. / Pkt.
TOOL-CARRIER CUS	1200082	1



**CUS tool sets, equipped with tools according to customer requirements**



- Individual tool sets, with cutting, stripping, crimping, installation, and testing tools from the TOOL fox tool range
- Rugged and heavy-duty tool bags
- Products are configured and ordered with web code:

**i** #0290

TOOLS FOR YOU



Tool belt pouch

Description

Tool belt pouch, with two robust internal pockets, equipped with tools according to customer requirements

Ordering data

Type	Order No.	Pcs. / Pkt.
TOOL-BELTPOUCH CUS	1200084	1

**CUS tool sets, equipped with tools according to customer requirements**

- Products are configured and ordered with web code:

**i** #0290

TOOLS FOR YOU



Tool case

TOOLS FOR YOU



Wrap-up tool bag

Ordering data

Description
Tool case, with elastic straps to hold the tools in place, equipped with tools according to customer requirements
Tool wrap, equipped with tools according to customer requirements

Type	Order No.	Pcs. / Pkt.
TOOL-KIT CUS	1200085	1

Ordering data

Type	Order No.	Pcs. / Pkt.
TOOL-WRAP CUS	1200083	1

Hand tools

Tool case with customized marking

new



- A business card sized label is available for customization. This can be marked according to customer requirements
- Products are configured and ordered with web code:

**i** #0290



Description
<p><b>Tool case</b>, with permanently closable business card pocket, with US EMP (85.6 x 54) marking label marked according to customer requirements</p>

Ordering data		
Type	Order No.	Pcs. / Pkt.
TOOL-CASE EMPTY CUS	8191312	1

Tool bags with customized marking

new

new

- The tool bags impress with their hard-wearing materials and robust construction
- Products are configured and ordered with web code:

**i** #0290



Description
<p><b>Tool bag</b>, with permanently closeable business card pocket, with US EMP (85.6 x 54) marking label, marked according to customer requirements</p>
<p><b>Tool bag</b>, with permanently closeable business card pocket, with US EMP (85.6 x 54) marking label, marked according to customer requirements</p>

Ordering data		
Type	Order No.	Pcs. / Pkt.
TOOL-BAG EMPTY CUS	8191308	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
TOOL-CARRIER EMPTY CUS	8191310	1

new

**Tool belt pouch with customized marking**



- The business card pocket can be permanently closed using the plastic rivets supplied as standard
- Products are configured and ordered with web code:

**i** #0290

Description  
**Tool belt pouch**, with permanently closable business card pocket, with US EMP (85.6 x 54) marking label marked according to customer requirements

Ordering data		
Type	Order No.	Pcs. / Pkt.
TOOL-BELTPOUCH EMPTY CUS	8191311	1

**Tool kit, tool wrap with customized marking**

new

new

- No risk of switching tool bags thanks to the clearly printed labels
- Products are configured and ordered with web code:

**i** #0290



Description  
**Tool kit**, with permanently closeable business card pocket, with US EMP (85.6 x 54) marking label, marked according to customer requirements

**Tool wrap**, with permanently closeable business card pocket, with marking label US EMP (85.6 x 54) marked according to customer requirements

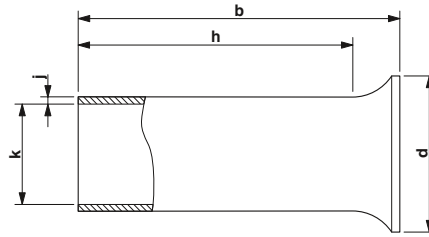
Ordering data		
Type	Order No.	Pcs. / Pkt.
TOOL-KIT STANDARD EMPTY CUS	8191307	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
TOOL-WRAP EMPTY CUS	8191309	1

Hand tools

Ferrules without insulating collar, according to DIN 46228-1

- The ferrules without plastic sleeve are made from soft tin-plated electrolytic copper
- The dimensions of the ferrules conform to DIN 46228-1
- The A 0,25.. can also be used to process conductors with a cross section of 0.14 mm<sup>2</sup>



Conductor cross sections from 0.14 to 35 mm<sup>2</sup>

**Notes:**  
 1) These ferrules are not included in DIN 46228-4:1990-09.



General data
Material / coating

Technical data							
E-CU / tin-plated (galvanic)							

Technical data		
E-CU / tin-plated (galvanic)		

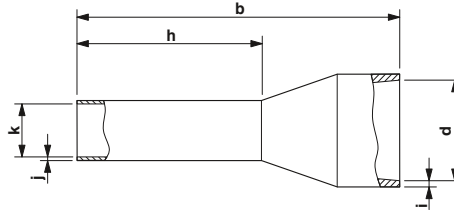
Description	Cross section		Color
	[mm <sup>2</sup> ]	AWG	
<b>Ferrules, without plastic sleeves, CSA-certified</b>			
	0.25 <sup>1)</sup>	24	silver
	0.25 <sup>1)</sup>	24	silver
	0.34 <sup>1)</sup>	22	silver
	0.5	20	silver
	0.5 <sup>1)</sup>	20	silver
	0.5	20	silver
	0.75	18	silver
	0.75 <sup>1)</sup>	18	silver
	0.75	18	silver
	1	18	silver
	1 <sup>1)</sup>	18	silver
	1	18	silver
	1.5	16	silver
	1.5	16	silver
	1.5	16	silver
	1.5	16	silver
	1.5	16	silver
	2.5	14	silver
	2.5	14	silver
	2.5	14	silver
	4	12	silver
	4	12	silver
	4	12	silver
	6	10	silver
	6	10	silver
	10	8	silver
	10	8	silver
	16	6	silver
	25 <sup>1)</sup>	4	silver
	25	4	silver
	25	4	silver
	25 <sup>1)</sup>	4	silver
	25	4	silver
	35	2	silver
	35 <sup>1)</sup>	2	silver
	35	2	silver
	50	1/0	silver
	70	2/0	silver
	95	3/0	silver

Dimensions [mm]							
a	b	d	h	i	j	k	
-	5.00	1.70	-	-	0.15	0.80	
-	7.00	1.70	-	-	0.15	0.80	
-	7.00	1.80	-	-	0.15	0.90	
-	6.00	2.10	-	-	0.15	1.00	
-	8.00	2.10	-	-	0.15	1.00	
-	10.00	2.10	-	-	0.15	1.00	
-	6.00	2.30	-	-	0.15	1.20	
-	8.00	2.30	-	-	0.15	1.20	
-	10.00	2.30	-	-	0.15	1.20	
-	6.00	2.50	-	-	0.15	1.40	
-	8.00	2.50	-	-	0.15	1.40	
-	10.00	2.50	-	-	0.15	1.40	
-	7.00	2.80	-	-	0.15	1.70	
-	10.00	2.80	-	-	0.15	1.70	
-	12.00	2.80	-	-	0.15	1.70	
-	15.00	2.80	-	-	0.15	1.70	
-	18.00	2.80	-	-	0.15	1.70	
-	7.00	3.40	-	-	0.15	2.20	
-	12.00	3.40	-	-	0.15	2.20	
-	18.00	3.40	-	-	0.15	2.20	
-	9.00	4.00	-	-	0.20	2.80	
-	12.00	4.00	-	-	0.20	2.80	
-	18.00	4.00	-	-	0.20	2.80	
-	10.00	4.70	-	-	0.20	3.50	
-	12.00	4.70	-	-	0.20	3.50	
-	12.00	5.80	-	-	0.20	4.50	
-	18.00	5.80	-	-	0.20	4.50	
-	12.00	7.50	-	-	0.20	5.80	
-	12.00	9.50	-	-	0.20	7.30	
-	15.00	9.50	-	-	0.20	7.30	
-	18.00	9.50	-	-	0.20	7.30	
-	20.00	9.50	-	-	0.20	7.30	
-	40.00	9.50	-	-	0.20	7.30	
-	18.00	11.00	-	-	0.20	8.30	
-	20.00	11.00	-	-	0.20	8.30	
-	40.00	11.00	-	-	0.20	8.20	
-	40.00	13.00	-	-	0.30	10.30	
-	40.00	15.00	-	-	0.40	12.50	
-	40.00	17.00	-	-	0.40	14.50	

Ordering data		
Type	Order No.	Pcs. / Pkt.
A 0,25- 5	3202465	1000
A 0,25- 7	3202478	1000
A 0,34- 7	3009202	1000
A 0,5- 6	3200218	1000
A 0,5- 8	3202481	1000
A 0,5-10	3202494	1000
A 0,75- 6	3200221	1000
A 0,75- 8	3202504	1000
A 0,75-10	3200234	1000
A 1- 6	3200247	1000
A 1- 8	3202517	1000
A 1-10	3200250	1000
A 1,5- 7	3200263	1000
A 1,5-10	3200276	1000
A 1,5-12	3202588	1000
A 1,5-15	3202591	1000
A 1,5-18	3202601	1000
A 2,5- 7	3200289	1000
A 2,5-12	3200292	1000
A 2,5-18	3202821	1000
A 4- 9	3200302	1000
A 4-12	3200315	1000
A 4-18	3202834	1000
A 6-10	3202520	500
A 6-12	3200328	500
A 10-12	3200331	500
A 10-18	3200344	500
A 16-12	3200425	100
A 25-12	3200357	100
A 25-15	3200360	100
A 25-18	3200373	100
A 25-20	3200386	100
A 25-40	3241238	100
A 35-18	3200399	100
A 35-20	3200409	100
A 35-40	3241239	100
A 50-40	3241240	100
A 70-40	3241241	100
A 95-40	3241242	100

**Ferrules with insulating collar, according to DIN 46228-4**

- The ferrules with plastic sleeve are made from soft tin-plated electrolytic copper
- The insulation reliability of close connections is increased and the splicing of wires is prevented
- The AI 0,25.. can also be used to process conductors with a cross section of 0.14 mm<sup>2</sup>



**Notes:**  
 1) These ferrules are not included in DIN 46228-4:1990-09.



Conductor cross sections from 0.14 to 120 mm<sup>2</sup>



General data	
Material / coating	E-CU / tin-plated (galvanic)
Plastic sleeve material	polypropylene
Long/short-term temperature	105°C / 120°C

Technical data							
----------------	--	--	--	--	--	--	--

Technical data		
E-CU / tin-plated (galvanic)		
polypropylene		
105°C / 120°C		

Description	Cross section		Color
	[mm <sup>2</sup> ]	AWG	
<b>Ferrules, with plastic sleeve, color range as per DIN 46228-4: 1990-09, CSA-certified</b>			
	0.25 <sup>1)</sup>	22	yellow
	0.25 <sup>1)</sup>	22	yellow
	0.5	20	white
	0.5	20	white
	0.5	20	white
	0.5	20	white
	0.5 <sup>1)</sup>	20	white
	0.75	18	gray
	0.75	18	gray
	0.75	18	gray
	0.75	18	gray
	0.75	18	gray
	1	18	red
	1	18	red
	1	18	red
	1	18	red
	1	18	red
	1.5 <sup>1)</sup>	16	black
	1.5	16	black
	1.5	16	black
	1.5	16	black
	1.5	16	black
	1.5	16	black
	1.5	16	black
	2.5	14	blue
	2.5	14	blue
	2.5 <sup>1)</sup>	14	blue
	2.5	14	blue
	2.5	14	blue
	4	12	gray
	4	12	gray
	4	12	gray
	6	10	yellow
	6	10	yellow
	10	8	red
	10	8	red
	16	6	blue
	16	6	blue
	25	4	yellow
	25	4	yellow
	25	4	yellow
	35	2	red
	35	2	red
	35	2	red
	50	1/0	blue
	50	1/0	blue
	70 <sup>1)</sup>	2	yellow
	95 <sup>1)</sup>	4	red
	120 <sup>1)</sup>	5	blue

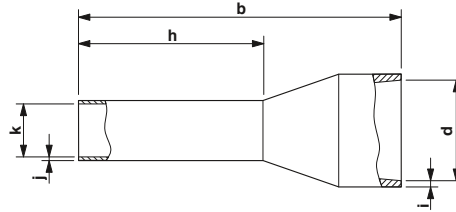
Dimensions [mm]							
a	b	d	h	i	j	k	
-	10.50	2.00	6.00	0.25	0.15	0.80	
-	12.50	2.00	8.00	0.25	0.15	0.80	
-	12.00	2.50	6.00	0.25	0.15	1.10	
-	14.00	2.50	8.00	0.25	0.15	1.10	
-	14.00	2.50	8.00	0.25	0.15	1.10	
-	16.00	2.50	10.00	0.25	0.15	1.10	
-	18.00	2.50	12.00	0.25	0.15	1.10	
-	12.00	2.80	6.00	0.25	0.15	1.30	
-	14.00	2.80	8.00	0.25	0.15	1.30	
-	14.00	2.80	8.00	0.25	0.15	1.30	
-	16.00	2.80	10.00	0.25	0.15	1.30	
-	18.00	2.80	12.00	0.25	0.15	1.30	
-	12.00	3.00	6.00	0.30	0.15	1.50	
-	14.00	3.00	8.00	0.30	0.15	1.50	
-	14.00	3.00	8.00	0.30	0.15	1.50	
-	16.00	3.00	10.00	0.30	0.15	1.50	
-	18.00	3.00	12.00	0.30	0.15	1.50	
-	12.00	3.40	6.00	0.30	0.15	1.80	
-	14.00	3.40	8.00	0.30	0.15	1.80	
-	14.00	3.40	8.00	0.30	0.15	1.80	
-	16.00	3.40	10.00	0.30	0.15	1.80	
-	18.00	3.40	12.00	0.30	0.15	1.80	
-	24.00	3.40	18.00	0.30	0.15	1.80	
-	14.00	4.20	8.00	0.30	0.15	2.30	
-	14.00	4.20	8.00	0.30	0.15	2.30	
-	17.00	4.20	10.00	0.30	0.15	2.30	
-	18.00	4.20	12.00	0.30	0.15	2.30	
-	24.00	4.20	18.00	0.30	0.15	2.30	
-	17.00	4.80	10.00	0.30	0.20	2.80	
-	20.00	4.80	12.00	0.30	0.20	2.80	
-	26.00	4.80	18.00	0.30	0.20	2.80	
-	20.00	6.20	12.00	0.30	0.20	3.50	
-	26.00	6.20	18.00	0.30	0.20	3.50	
-	22.00	7.50	12.00	0.30	0.20	4.60	
-	28.00	7.50	18.00	0.30	0.20	4.60	
-	24.00	8.80	12.00	0.40	0.20	5.80	
-	29.00	8.80	18.00	0.40	0.20	5.80	
-	30.00	11.00	16.00	0.50	0.20	7.30	
-	32.00	11.00	18.00	0.50	0.20	7.30	
-	36.00	11.00	22.00	0.50	0.20	7.30	
-	30.00	12.50	16.00	0.50	0.20	8.30	
-	32.00	12.50	18.00	0.50	0.20	8.30	
-	39.00	12.50	25.00	0.50	0.20	8.30	
-	36.00	15.00	20.00	0.60	0.35	10.30	
-	40.00	15.00	25.00	0.60	0.35	10.30	
-	37.00	16.00	20.00	0.60	0.35	12.70	
-	44.00	18.00	25.00	0.60	0.35	14.70	
-	48.00	21.00	27.00	0.70	0.45	16.70	

Ordering data		
Type	Order No.	Pcs. / Pkt.
AI 0,25- 6 YE	3203024	100
AI 0,25- 8 YE	3203037	100
AI 0,5 - 6 WH	3200687	100
AI 0,5 - 8 WH	3200014	100
AI 0,5 - 8 WH -1000	3200881	1000
AI 0,5 -10 WH	3201275	100
AI 0,5 -12 WH	3200506	100
AI 0,75- 6 GY	3200690	100
AI 0,75- 8 GY	3200519	100
AI 0,75- 8 GY -1000	3200894	1000
AI 0,75-10 GY	3201288	100
AI 0,75-12 GY	3200849	100
AI 1 - 6 RD	3200742	100
AI 1 - 8 RD	3200030	100
AI 1 - 8 RD -1000	3200904	1000
AI 1 -10 RD	3200182	100
AI 1 -12 RD	3200674	100
AI 1,5 - 6 BK	3200755	100
AI 1,5 - 8 BK	3200043	100
AI 1,5 - 8 BK -1000	3200917	1000
AI 1,5 -10 BK	3200195	100
AI 1,5 -12 BK	3201482	100
AI 1,5 -18 BK	3200056	100
AI 2,5 - 8 BU	3200522	100
AI 2,5 - 8 BU -1000	3200920	1000
AI 2,5 -10 BU	3202533	100
AI 2,5 -12 BU	3200962	100
AI 2,5 -18 BU	3200580	100
AI 4 -10 GY	3200535	100
AI 4 -12 GY	3200959	100
AI 4 -18 GY	3200593	100
AI 6 -12 YE	3200548	100
AI 6 -18 YE	3200603	100
AI 10 -12 RD	3200551	100
AI 10 -18 RD	3200616	100
AI 16 -12 BU	3200564	100
AI 16 -18 BU	3200629	100
AI 25 -16 YE	3200577	50
AI 25 -18 YE	3201505	50
AI 25 -22 YE	3200700	50
AI 35 -16 RD	3200441	50
AI 35 -18 RD	3201495	50
AI 35 -25 RD	3200713	50
AI 50 -20 BU	3200454	50
AI 50 -25 BU	3200726	25
AI 70 -20 YE	3201848	25
AI 95 -25 RD	3201853	25
AI120 -27 BU	3201822	25

Hand tools

Ferrules with insulating collar with color code in acc. with NF C 63-023

- In terms of dimensions, these ferrules conform to DIN 46228-4: 1990-09
- The color code of the plastic insulating collar is based on the French standard NF C 63-023: 1994-02
- The metal sleeves are made from soft tin-plated electrolytic copper



Conductor cross sections from 0.5 to 50 mm<sup>2</sup>

**Notes:**  
 1) These ferrules are not included in DIN 46228-4:1990-09.

General data

Material / coating  
 Plastic sleeve material  
 Long/short-term temperature

Technical data

Technical data

E-CU / tin-plated (galvanic)  
 polypropylene  
 105°C / 120°C

Ordering data

Description	Cross section		Color
	[mm <sup>2</sup> ]	AWG	

Ferrules, with plastic sleeve, color code as per NF C 63-023: 1994-02, CSA-certified

Description	Cross section		Color
	[mm <sup>2</sup> ]	AWG	
	0.5	20	white
	0.5	20	white
	0.5	20	white
	0.5	20	white
	0.5 <sup>1)</sup>	20	white
	0.75	18	blue
	1	18	red
	1	18	red
	1	18	red
	1	18	red
	1	18	red
	1.5 <sup>1)</sup>	16	black
	1.5	16	black
	1.5	16	black
	1.5	16	black
	1.5	16	black
	1.5	16	black
	2.5	14	gray
	2.5	14	gray
	2.5	14	gray
	4	12	orange
	4	12	orange
	4	12	orange
	6	10	green
	6	10	green
	10	8	brown
	10	8	brown
	16	6	ivory
	25	4	black
	25	4	black
	35	2	red
	35	2	red
	50	1/0	blue
	50	1/0	blue

Dimensions [mm]							
a	b	d	h	i	j	k	

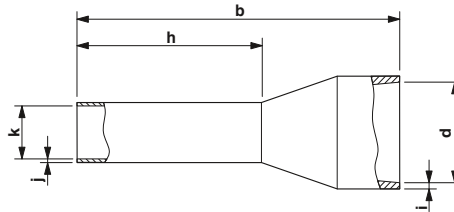
Dimensions [mm]							
a	b	d	h	i	j	k	
-	12.00	2.50	6.00	0.25	0.15	1.10	
-	14.00	2.50	8.00	0.25	0.15	1.10	
-	14.00	2.50	8.00	0.25	0.15	1.10	
-	16.00	2.50	10.00	0.25	0.15	1.10	
-	18.00	2.50	12.00	0.25	0.15	1.10	
-	14.00	2.80	8.00	0.25	0.15	1.30	
-	12.00	3.00	6.00	0.30	0.15	1.50	
-	14.00	3.00	8.00	0.30	0.15	1.50	
-	14.00	3.00	8.00	0.30	0.15	1.50	
-	16.00	3.00	10.00	0.30	0.15	1.50	
-	18.00	3.00	12.00	0.30	0.15	1.50	
-	12.00	3.40	6.00	0.30	0.15	1.80	
-	14.00	3.40	8.00	0.30	0.15	1.80	
-	14.00	3.40	8.00	0.30	0.15	1.80	
-	16.00	3.40	10.00	0.30	0.15	1.80	
-	18.00	3.40	12.00	0.30	0.15	1.80	
-	24.00	3.40	18.00	0.30	0.15	1.80	
-	14.00	4.20	8.00	0.30	0.15	2.30	
-	18.00	4.20	12.00	0.30	0.15	2.30	
-	24.00	4.20	18.00	0.30	0.15	2.30	
-	17.00	4.80	10.00	0.30	0.20	2.80	
-	20.00	4.80	12.00	0.30	0.20	2.80	
-	26.00	4.80	18.00	0.30	0.20	2.80	
-	20.00	6.20	12.00	0.30	0.20	3.50	
-	26.00	6.20	18.00	0.30	0.20	3.50	
-	22.00	7.50	12.00	0.30	0.20	4.60	
-	28.00	7.50	18.00	0.30	0.20	4.60	
-	24.00	8.80	12.00	0.40	0.20	5.80	
-	30.00	11.00	16.00	0.50	0.20	7.30	
-	36.00	11.00	22.00	0.50	0.20	7.30	
-	30.00	12.50	16.00	0.50	0.20	8.30	
-	39.00	12.50	25.00	0.50	0.20	8.30	
-	36.00	15.00	20.00	0.60	0.35	10.30	
-	40.00	15.00	25.00	0.60	0.35	10.30	



Type	Order No.	Pcs. / Pkt.
AI 0,5 - 6 WH	3200687	100
AI 0,5 - 8 WH	3200014	100
AI 0,5 - 8 WH -1000	3200881	1000
AI 0,5 -10 WH	3201275	100
AI 0,5 -12 WH	3200506	100
AI 0,75- 8 BU	3200027	100
AI 1 - 6 RD	3200742	100
AI 1 - 8 RD	3200030	100
AI 1 - 8 RD -1000	3200904	1000
AI 1 -10 RD	3200182	100
AI 1 -12 RD	3200674	100
AI 1,5 - 6 BK	3200755	100
AI 1,5 - 8 BK	3200043	100
AI 1,5 - 8 BK -1000	3200917	1000
AI 1,5 -10 BK	3200195	100
AI 1,5 -12 BK	3201482	100
AI 1,5 -18 BK	3200056	100
AI 2,5 - 8 GY	3200069	100
AI 2,5 -12 GY	3200205	100
AI 2,5 -18 GY	3200072	100
AI 4 -10 OG	3200085	100
AI 4 -12 OG	3200438	100
AI 4 -18 OG	3200098	100
AI 6 -12 GN	3200108	100
AI 6 -18 GN	3200111	100
AI 10 -12 BN	3200124	100
AI 10 -18 BN	3200137	100
AI 16 -12 IV	3201181	100
AI 25 -16 BK	3200412	50
AI 25 -22 BK	3200739	50
AI 35 -16 RD	3200441	50
AI 35 -25 RD	3200713	50
AI 50 -20 BU	3200454	50
AI 50 -25 BU	3200726	25

**Ferrules with insulating collar in special colors**

- The ferrules with plastic sleeve are made from soft tin-plated electrolytic copper
- In terms of dimensions, they conform to DIN 46228-4: 1990-09



**Notes:**  
 1) These ferrules are not included in DIN 46228-4:1990-09.



Conductor cross sections from 0.14 to 120 mm<sup>2</sup>



**General data**

Material / coating  
 Plastic sleeve material  
 Long/short-term temperature

**Technical data**

**Technical data**

E-CU / tin-plated (galvanic)  
 polypropylene  
 105°C / 120°C

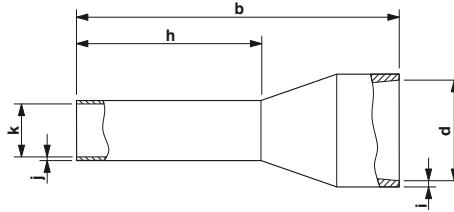
**Ordering data**

Description	Cross section		Color	Dimensions [mm]							Type	Order No.	Pcs. / Pkt.
	[mm <sup>2</sup> ]	AWG		a	b	d	h	i	j	k			
	0.14	24	gray	-	12.50	2.00	8.00	0.25	0.15	0.80	AI 0,14- 8 GY -1000	3203011	1000
	0.25 <sup>1)</sup>	22	blue	-	10.50	2.00	6.00	0.25	0.15	0.80	AI 0,25- 6 BU	3203040	100
	0.25 <sup>1)</sup>	22	blue	-	16.50	2.00	12.00	0.25	0.15	0.80	AI 0,25-12 BU	3200632	100
	0.34 <sup>1)</sup>	22	turquoise	-	10.50	2.00	6.00	0.25	0.15	0.80	AI 0,34- 6 TQ	3203053	100
	0.34 <sup>1)</sup>	22	turquoise	-	12.50	2.00	8.00	0.25	0.15	0.80	AI 0,34- 8 TQ	3203066	100
	0.34 <sup>1)</sup>	22	turquoise	-	16.50	2.00	12.00	0.25	0.15	0.80	AI 0,34-12 TQ	3200645	100
	0.5	20	orange	-	12.00	2.50	6.00	0.25	0.15	1.10	AI 0,5 - 6 OG	3201301	100
	0.5	20	orange	-	14.00	2.50	8.00	0.25	0.15	1.10	AI 0,5 - 8 OG	3201123	100
	0.5	20	orange	-	14.00	2.50	10.00	0.25	0.15	1.10	AI 0,5 -10 OG	3241126	500
	0.75	18	white	-	12.00	2.80	6.00	0.25	0.15	1.30	AI 0,75- 6 WH	3201314	100
	0.75	18	white	-	14.00	2.80	8.00	0.25	0.15	1.30	AI 0,75- 8 WH	3201110	100
	1	18	yellow	-	12.00	3.00	6.00	0.30	0.15	1.50	AI 1 - 6 YE	3201327	100
	1	18	yellow	-	14.00	3.00	8.00	0.30	0.15	1.50	AI 1 - 8 YE	3201097	100
	1.5	16	red	-	14.00	3.40	8.00	0.30	0.15	1.80	AI 1,5 - 8 RD	3201136	100
	1.5	16	red	-	14.00	3.40	18.00	0.30	0.15	1.80	AI 1,5 -18 RD	3241125	500
	2.5	14	blue	-	14.00	4.20	8.00	0.30	0.15	2.30	AI 2,5 - 8 BU	3200522	100
	2.5	14	blue	-	14.00	4.20	8.00	0.30	0.15	2.30	AI 2,5 - 8 BU -1000	3200920	1000
	2.5	14	blue	-	18.00	4.20	12.00	0.30	0.15	2.30	AI 2,5 -12 BU	3200962	100
	2.5	14	blue	-	24.00	4.20	18.00	0.30	0.15	2.30	AI 2,5 -18 BU	3200580	100
	4	12	gray	-	17.00	4.80	10.00	0.30	0.20	2.80	AI 4 -10 GY	3200535	100
	4	12	gray	-	20.00	4.80	12.00	0.30	0.20	2.80	AI 4 -12 GY	3200959	100
	4	12	gray	-	26.00	4.80	18.00	0.30	0.20	2.80	AI 4 -18 GY	3200593	100
	6	10	black	-	20.00	6.20	12.00	0.30	0.20	3.50	AI 6 -12 BK	3201107	100
	10	8	ivory	-	22.00	7.50	12.00	0.30	0.20	4.60	AI 10 -12 IV	3201068	100
	16	6	green	-	24.00	8.80	12.00	0.40	0.20	5.80	AI 16 -12 GN	3201152	100
	16	6	green	-	28.00	8.80	18.00	0.40	0.20	5.80	AI 16 -18 GN	3201330	100
	25	4	brown	-	30.00	11.00	16.00	0.50	0.20	7.30	AI 25 -16 BN	3201084	50
	35	2	beige	-	30.00	12.50	16.00	0.50	0.20	8.30	AI 35 -16 BE	3201071	50
	50	1/0	olive	-	36.00	15.00	20.00	0.60	0.35	10.30	AI 50 -20 OL	3201178	50
	95 <sup>1)</sup>	4	red	-	44.00	18.00	25.00	0.60	0.35	14.70	AI 95 -25 RD	3201853	25
	120 <sup>1)</sup>	5	blue	-	48.00	21.00	27.00	0.70	0.45	16.70	AI120 -27 BU	3201822	25

Hand tools

Ferrules for special applications

- These ferrules enable practical crimping of conductors with increased insulation
- Due to the increased diameter of the insulating collar, this type of ferrule is specifically used with AWG cables



Conductor cross sections from 0.5 to 1.5 mm<sup>2</sup>

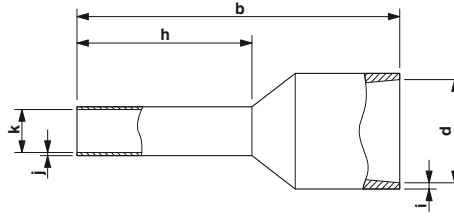
® EAC

General data			Technical data								Technical data			
Material / coating											E-CU / tin-plated (galvanic)			
Plastic sleeve material											polypropylene			
Long/short-term temperature											105°C / 120°C			
Description	Cross section		Color	Dimensions [mm]								Ordering data		
	[mm <sup>2</sup> ]	AWG		a	b	d	h	i	j	k	Type	Order No.	Pcs. / Pkt.	
<b>Ferrules, with plastic sleeves, CSA-certified</b>														
	0.5	20	white	-	13.50	3.00	8.00	0.25	0.15	1.10	AI 0,5 - 8 WH-GB	1208966	500	
	0.5	20	white	-	15.50	3.00	10.00	0.25	0.15	1.10	AI 0,5-10 WH-GB	3203150	100	
	0.75	18	gray	-	14.00	3.40	8.00	0.25	0.15	1.30	AI 0,75- 8 GY-GB	1208979	500	
	0.75	18	gray	-	16.00	3.40	10.00	0.25	0.15	1.30	AI 0,75-10 GY-GB	3203163	100	
	1	18	red	-	14.00	3.40	8.00	0.30	0.15	1.50	AI 1 - 8 RD-GB	1208982	500	
	1	18	red	-	16.00	3.40	10.00	0.30	0.15	1.50	AI 1 -10 RD-GB-1000	1208869	1000	
	1.5	16	black	-	14.00	3.70	8.00	0.30	0.15	1.80	AI 1,5 - 8 BK-GB-1000	3202892	1000	
	1.5	16	black	-	16.00	3.70	10.00	0.30	0.15	1.80	AI 1,5 -10 BK-GB-1000	1208872	1000	



Ferrules for special applications

- Suitable for conductors with thicker insulation, such as short-circuit-proof conductors



Conductor cross sections from 1.5 to 16 mm<sup>2</sup>

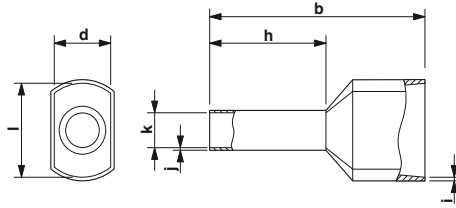


General data				Technical data								Technical data		
Material / coating												E-CU / tin-plated (galvanic)		
Plastic sleeve material												polypropylene		
Long/short-term temperature												105°C / 120°C		
Description				Dimensions [mm]								Ordering data		
		Cross section [mm <sup>2</sup> ]	AWG	Color	a	b	d	h	i	j	k	Type	Order No.	Pcs. / Pkt.
<b>Ferrules, with plastic sleeve, color range as per DIN 46228-4: 1990-09, CSA-certified</b>														
		1.5	16	black	-	17.50	7.00	8.00	0.30	0.15	1.80	<b>AI-XL 1,5- 8 BK</b>	<b>3201916</b>	100
		1.5	16	black	-	19.50	7.00	10.00	0.30	0.15	1.80	<b>AI-XL 1,5-10 BK</b>	<b>3201974</b>	100
		2.5	14	blue	-	17.50	7.90	8.00	0.30	0.15	2.30	<b>AI-XL 2,5- 8 BU</b>	<b>3201929</b>	100
		2.5	14	blue	-	21.50	7.90	12.00	0.30	0.15	2.30	<b>AI-XL 2,5-12 BU</b>	<b>3201987</b>	100
		4	12	gray	-	19.50	7.90	10.00	0.30	0.20	2.90	<b>AI-XL 4 -10 GY</b>	<b>3201932</b>	100
		6	10	yellow	-	23.00	8.70	12.00	0.30	0.20	3.60	<b>AI-XL 6 -12 YE</b>	<b>3201945</b>	100
		10	8	red	-	24.00	10.20	12.00	0.30	0.20	4.60	<b>AI-XL 10 -12 RD</b>	<b>3201958</b>	100
		16	6	blue	-	25.50	12.50	12.00	0.40	0.20	6.00	<b>AI-XL 16 -12 BU</b>	<b>3201961</b>	100

Hand tools

Ferrules for special applications

- The TWIN ferrules provide a practical way of crimping two conductors in one ferrule
- These special ferrules allow chain bridges to be set up with ease
- Different versions of the individual TWIN ferrules can be selected for specific applications



Conductor cross sections from 2 x 0.5 to 2 x 16 mm<sup>2</sup>

® ERG

General data			Technical data								Technical data						
Material / coating											E-CU / tin-plated (galvanic)						
Plastic sleeve material											polypropylene						
Long/short-term temperature											105°C / 120°C						
Description			Cross section		Color		Dimensions [mm]								Ordering data		
			[mm <sup>2</sup> ]	AWG			b	d	h	i	j	k	l	Type	Order No.	Pcs. / Pkt.	
<b>Ferrules, with plastic sleeve, color range as per DIN 46228-4: 1990-09, CSA-certified</b>																	
			2 x 0.5	2 x 20	white		15.00	2.50	8.00	0.25	0.15	1.50	-	AI-TWIN 2X 0,5 - 8 WH	3200933	100	
			2 x 0.75	2 x 18	gray		15.00	2.80	8.00	0.25	0.15	1.80	-	AI-TWIN 2X 0,75- 8 GY	3200807	100	
			2 x 0.75	2 x 18	gray		17.00	2.80	10.00	0.25	0.15	1.80	-	AI-TWIN 2X 0,75-10 GY	3200975	100	
			2 x 1	2 x 18	red		15.00	3.40	8.00	0.30	0.15	2.05	-	AI-TWIN 2X 1 - 8 RD	3200810	100	
			2 x 1	2 x 18	red		17.00	3.40	10.00	0.30	0.15	2.05	-	AI-TWIN 2X 1 -10 RD	3200988	100	
			2 x 1	2 x 18	red		19.00	3.40	12.00	0.30	0.15	2.05	-	AI-TWIN 2X1-12 RD	3240679	100	
			2 x 1.5	2 x 16	black		16.00	3.60	8.00	0.30	0.15	2.30	-	AI-TWIN 2X 1,5 - 8 BK	3200823	100	
			2 x 1.5	2 x 16	black		18.00	3.60	10.00	0.30	0.15	2.30	-	AI-TWIN 2X 1,5 -10 BK	3201534	100	
			2 x 1.5	2 x 16	black		20.00	3.60	12.00	0.30	0.15	2.30	-	AI-TWIN 2X 1,5 -12 BK	3200991	100	
			2 x 2.5	2 x 14	blue		18.50	4.20	10.00	0.30	0.20	2.90	-	AI-TWIN 2X 2,5 -10 BU	3200836	100	
			2 x 2.5	2 x 14	blue		21.50	4.20	13.00	0.30	0.20	2.90	-	AI-TWIN 2X 2,5 -13 BU	3200878	100	
			2 x 4	2 x 12	gray		23.00	4.90	12.00	0.30	0.20	3.80	-	AI-TWIN 2X 4 -12 GY	3201000	100	
			2 x 6	2 x 10	yellow		25.00	5.90	14.00	0.40	0.20	4.90	-	AI-TWIN 2X 6 -14 YE	3201013	100	
			2 x 10	2 x 8	red		26.00	7.20	14.00	0.40	0.20	6.50	-	AI-TWIN 2X10 -14 RD	3201026	100	
			2 x 16	2 x 6	blue		31.00	8.80	16.00	0.50	0.20	8.50	-	AI-TWIN 2X16 -16 BU	3202847	50	
<b>Ferrules, with plastic sleeve, color range according to NF C 63-023, CSA-certified</b>																	
			2 x 0.75	18	blue		15.00	2.80	8.00	0.25	0.15	1.80	-	AI-TWIN 2X0,75-8 BU	3240668	100	
			2 x 2.5	14	gray		18.50	4.20	10.00	0.30	0.20	2.90	-	AI-TWIN 2X2,5-10 GY	3240669	100	

## Ferrules with plastic sleeve, taped, supplied on large coils

- Ferrules in tape format for automatic processing
- The ferrules are supplied on large coils, each containing a quantity of up to 3000



Conductor cross section of 0.5 - 2.5 mm<sup>2</sup>



### General data

Material / coating  
Plastic sleeve material  
Long/short-term temperature

### Technical data

E-CU / tin-plated (galvanic)  
polypropylene  
105°C / 120°C

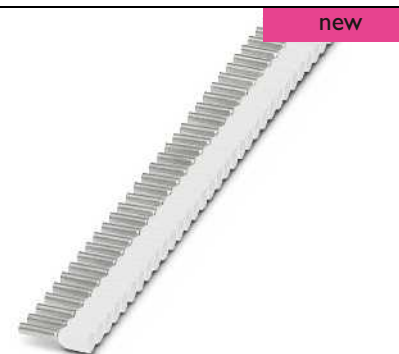
Description	Cross section		Color	Dimensions [mm]						
	[mm <sup>2</sup> ]	AWG		a	b	d	h	i	j	k
<b>Taped ferrules</b> , with plastic sleeve, large coils for automatic processing, color range acc. to DIN 46228-4: 1990-09, CSA certified										
	0.5	20	white	-	14.00	2.50	8.00	0.25	0.15	1.10
	0.75	18	gray	-	14.00	2.80	8.00	0.25	0.15	1.30
	1	18	red	-	14.00	3.00	8.00	0.30	0.15	1.50
	1.5	16	black	-	14.00	3.40	8.00	0.30	0.15	1.80
	2.5	14	blue	-	14.00	4.20	8.00	0.30	0.15	2.30

### Ordering data

Type	Order No.	Pcs. / Pkt.
AI 0,5-8 WH-B 3000	3240663	3000
AI 0,75-8 GY-B 3000	3240664	3000
AI 1-8 RD-B 3000	3240665	3000
AI 1,5-8 BK-B 2500	3240666	2500
AI 2,5-8 BU-B 1500	3240667	1500

## Ferrules with plastic collar in strip form

- Suitable for processing with the CRIMPFOX 4 IN 1
- The ferrules with plastic sleeve are made from soft tin-plated electrolytic copper
- In terms of dimensions, they conform to DIN 46228-4: 1990-09



Conductor cross section of 0.5 - 2.5 mm<sup>2</sup>

### General data

Material / coating  
Plastic sleeve material  
Long/short-term temperature

### Technical data

E-CU / tin-plated (galvanic)  
polypropylene  
105°C / 120°C

Description	Cross section		Color	Dimensions [mm]						
	[mm <sup>2</sup> ]	AWG		a	b	d	h	i	j	k
<b>Taped ferrules</b> , 0.5 mm <sup>2</sup> , sleeve length: 8 mm, with plastic collar, according to DIN 46228-4, white, for processing with the CRIMPFOX 4 IN 1, 10 strips each with 50 sleeves per strip										
	0.5	20	white	-	14.00	2.50	8.00	0.25	0.15	1.10
	0.75	18	gray	-	14.00	2.80	8.00	0.25	0.15	1.30
	1	18	red	-	14.00	3.00	8.00	0.30	0.15	1.50
	1.5	16	black	-	14.00	3.40	8.00	0.30	0.15	1.80
10 strips each with 40 sleeves per strip	2.5	14	blue	-	14.00	4.20	8.00	0.30	0.15	2.30

### Ordering data

Type	Order No.	Pcs. / Pkt.
AI 0,5-8 WH S1	1200104	500
AI 0,75-8 GY S1	1200105	500
AI 1,0-8 RD S1	1200106	500
AI 1,5-8 BK S1	1200107	500
AI 2,5-8 BU S1	1200108	400

Hand tools

Assortment boxes containing ferrules



- The practical assortment boxes are designed to keep your workshop tidy
- Color coding and the transparent cover facilitate fast access to the required ferrules
- Using the integrated euro-clip, they can be hung up on perforated board walls, for example, to save space



		Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.
<b>Sorti-box</b> , equipped with ferrules in accordance with DIN 46228-4, CSA-certified 500 pcs. each of AI 0,5-8 WH, AI 2,5-8 BU, 100 pcs. each of AI 0,75-8 GY, AI 1-8 RD, AI 1,5-8 BK	red	AI SORTI BOX RD	3202960	1
<b>Sorti-box</b> , equipped with ferrules in accordance with DIN 46228-4, CSA-certified 50 pcs. of AI 4-10 GY, 20 pcs. each of AI 6-12 YE, AI 10-12 RD, 10 pcs. of AI 16-12 BU	anthracite	AI SORTI BOX ANT	3202973	1
<b>Sorti-box</b> , equipped with TWIN ferrules in accordance with DIN 46228-4, CSA-certified 500 pcs. each of AI-TWIN 2x0,5-8 WH, AI-TWIN 2x0,75-8 GY, AI-TWIN 2x1-8 RD, AI-TWIN 2x1,5-8 BK 25 pcs. of AI-TWIN 2x2,5-10 BU	blue	AI-TWIN SORTI BOX BU	3202986	1
<b>Sorti-box</b> , equipped with TWIN ferrules in accordance with DIN 46228-4, CSA-certified 20 pcs. of AI-TWIN 2x4-12 GY, 10 pcs. each of AI-TWIN 2x6-14 YE, AI-TWIN 2x10-14 RD	gray	AI-TWIN SORTI BOX GY	3202999	1
<b>Assortment box</b> , empty, with five compartments	light gray	AI SORTI BOX-E LGY	3203008	10

## Ferrule set with tool

- Stripping and crimping set with a selection of CSA/CSA-certified ferrules



ERIC

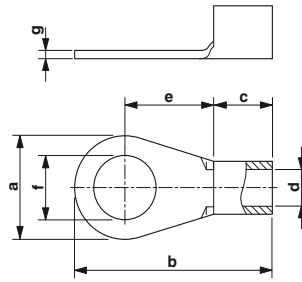
Description
<p><b>Range box</b>, made of metal, equipped with ferrules in accordance with DIN 46228-4: 1990-09, CSA-certified            500 pieces each of Al 0,25-6 YE, Al 0,34-6 TQ, Al 0,5-8 WH, Al 0,75-8 GY, Al 1-8 RD, Al 1,5-8 BK,            300 pieces of Al 2,5-8 BU,            200 pieces of Al 4-10 GY,            100 pieces of Al 6-12 YE            as well as stripping tool for wires and conductors of up to 6 mm<sup>2</sup>            Crimp pliers for ferrules in accordance with DIN 46228, Part 1+4,            0.5 - 6 mm<sup>2</sup>, front insertion, trapezoidal crimp</p>
<p><b>Range box</b>, made of metal, equipped with ferrules in accordance with DIN 46228-4: 1990-09, CSA-certified            300 pieces of Al 10-12 RD,            200 pieces of Al 16-12 BU,            100 pieces of Al 25-16 YE            as well as stripping tool, for stripping wires of 4.5 - 40 mm,            Crimp pliers for ferrules in accordance with DIN 46228, Part 1+4,            10 - 25 mm<sup>2</sup>, lateral insertion, WM crimp</p>
<p><b>Assortment box</b>, metal, no components mounted</p>

Ordering data		
Type	Order No.	Pcs. / Pkt.
CRIMPSET 6	1202072	1
CRIMPSET 25	1202580	1
CRIMPSET 6/25 LEER	1204041	1

Hand tools

Ring cable lugs, non-insulated

- The ring cable lugs without plastic sleeve are made from high-quality tin-plated electrolytic copper for maximum protection against corrosion
- The hard-soldered press zone enables maximum conductor extraction values to be achieved
- The CRIMPFOX-RC... tools from our CRIMPFOX range of crimping pliers are available for optimum crimping



Conductor cross sections from 0.5 to 240 mm<sup>2</sup>

General data			Technical data								Technical data			
Material / coating											Copper / Tin-plated			
Temperature range			[°C]								... 110			
Description	Cross section		Color	Dimensions [mm]								Ordering data		
	[mm <sup>2</sup> ]	AWG		a	b	c	d	e	f	g	Type	Order No.	Pcs. / Pkt.	
<b>Ring cable lug, non-insulated, as per DIN 46234</b>														
2.5 mm <sup>2</sup>	0.5 - 1	20 - 18	silver	6.00	14.00	5.00	1.60	6.00	2.80	0.80	C-RC 1/M2,5 DIN	3240069	100	
	0.5 - 1	20 - 18	silver	6.00	14.00	5.00	1.60	6.00	3.20	0.80	C-RC 1/M3 DIN	3240070	100	
	0.5 - 1	20 - 18	silver	6.00	14.00	5.00	1.60	6.00	3.70	0.80	C-RC 1/M3,5 DIN	3240071	100	
	0.5 - 1	20 - 18	silver	8.00	16.00	5.00	1.60	7.00	4.30	0.80	C-RC 1/M4 DIN	3240072	100	
	0.5 - 1	20 - 18	silver	10.00	18.00	5.00	1.60	8.00	5.30	0.80	C-RC 1/M5 DIN	3240073	100	
	0.5 - 1	20 - 18	silver	10.00	18.00	5.00	1.60	8.00	6.50	0.80	C-RC 1/M6 DIN	3240074	100	
	0.5 - 1	20 - 18	silver	11.60	22.00	5.00	1.60	12.00	8.40	0.80	C-RC 1/M8 DIN	3240075	100	
	1 - 2.5	18 - 14	silver	6.00	14.00	5.00	2.30	6.00	3.20	0.80	C-RC 2,5/M3 DIN	3240076	100	
	1 - 2.5	18 - 14	silver	6.00	14.00	5.00	2.30	6.00	3.70	0.80	C-RC 2,5/M3,5 DIN	3240077	100	
	1 - 2.5	18 - 14	silver	8.00	16.00	5.00	2.30	7.00	4.30	0.80	C-RC 2,5/M4 DIN	3240078	100	
	1 - 2.5	18 - 14	silver	10.00	19.00	5.00	2.30	9.00	5.30	0.80	C-RC 2,5/M5 DIN	3240079	100	
	1 - 2.5	18 - 14	silver	11.00	21.50	5.00	2.30	11.00	6.50	0.80	C-RC 2,5/M6 DIN	3240080	100	
1 - 2.5	18 - 14	silver	14.00	24.00	5.00	2.30	12.00	8.40	0.80	C-RC 2,5/M8 DIN	3240081	100		
1 - 2.5	18 - 14	silver	14.00	25.40	5.00	2.30	12.00	10.50	0.80	C-RC 2,5/M10 DIN	3240082	100		
2.6 - 6	12 - 10	silver	8.00	17.50	6.00	3.60	8.00	4.30	1.00	C-RC 6/M4 DIN	3240083	50		
2.6 - 6	12 - 10	silver	10.00	20.00	6.00	3.60	9.00	5.30	1.00	C-RC 6/M5 DIN	3240084	50		
2.6 - 6	12 - 10	silver	11.00	22.00	6.00	3.60	10.00	6.50	1.00	C-RC 6/M6 DIN	3240085	50		
2.6 - 6	12 - 10	silver	14.00	26.00	6.00	3.60	13.00	8.40	1.00	C-RC 6/M8 DIN	3240086	50		
2.6 - 6	12 - 10	silver	18.00	30.00	6.00	3.60	15.00	10.50	1.00	C-RC 6/M10 DIN	3240087	50		
2.6 - 6	12 - 10	silver	18.00	35.50	6.00	3.60	15.00	13.00	1.00	C-RC 6/M12 DIN	3240088	50		
- 10	- 8	silver	10.00	21.00	8.00	4.50	8.00	5.30	1.10	C-RC 10/M5 DIN	3240089	100		
- 10	- 8	silver	11.00	23.00	8.00	4.50	9.00	6.50	1.10	C-RC 10/M6 DIN	3240090	100		
- 10	- 8	silver	14.00	27.00	8.00	4.50	12.00	8.40	1.10	C-RC 10/M8 DIN	3240091	100		
- 10	- 8	silver	18.00	30.00	8.00	4.50	13.00	10.50	1.10	C-RC 10/M10 DIN	3240092	100		
- 10	- 8	silver	22.00	34.00	8.00	4.50	15.00	13.00	1.10	C-RC 10/M12 DIN	3240093	100		
- 16	- 6	silver	11.00	26.00	10.00	5.80	10.00	5.30	1.10	C-RC 16/M5 DIN	3240094	100		
- 16	- 6	silver	11.00	26.00	10.00	5.80	10.00	6.50	1.20	C-RC 16/M6 DIN	3240095	100		
- 16	- 6	silver	14.00	29.00	10.00	5.80	12.00	8.40	1.20	C-RC 16/M8 DIN	3240096	100		
- 16	- 6	silver	18.00	33.00	10.00	5.80	14.00	10.50	1.20	C-RC 16/M10 DIN	3240097	100		
- 16	- 6	silver	22.00	37.00	10.00	5.80	16.00	13.00	1.20	C-RC 16/M12 DIN	3240098	100		
- 25	- 4	silver	12.00	31.00	11.00	7.50	14.00	5.30	1.50	C-RC 25/M5 DIN	3240099	100		
- 25	- 4	silver	12.00	31.00	11.00	7.50	14.00	6.50	1.50	C-RC 25/M6 DIN	3240100	100		
- 25	- 4	silver	16.00	33.00	11.00	7.50	14.00	8.40	1.50	C-RC 25/M8 DIN	3240101	100		
- 25	- 4	silver	18.00	35.00	11.00	7.50	15.00	10.50	1.50	C-RC 25/M10 DIN	3240102	100		
- 25	- 4	silver	31.00	42.00	11.00	7.50	20.00	13.00	1.50	C-RC 25/M12 DIN	3240103	100		
- 25	- 4	silver	35.00	49.00	11.00	7.50	25.00	17.00	1.50	C-RC 25/M16 DIN	3240104	100		
- 35	- 2	silver	15.00	34.00	12.00	9.00	14.00	6.50	1.60	C-RC 35/M6 DIN	3240105	100		
- 35	- 2	silver	16.00	34.00	12.00	9.00	14.00	8.40	1.60	C-RC 35/M8 DIN	3240106	100		
- 35	- 2	silver	18.00	36.00	12.00	9.00	15.00	10.50	1.60	C-RC 35/M10 DIN	3240107	100		
- 35	- 2	silver	22.00	42.00	12.00	9.00	19.00	13.00	1.60	C-RC 35/M12 DIN	3240108	100		
- 35	- 2	silver	28.00	50.00	12.00	9.00	24.00	17.00	1.60	C-RC 35/M16 DIN	3240109	100		
- 50	- 1/0	silver	18.00	43.00	16.00	11.00	18.00	6.50	1.80	C-RC 50/M6 DIN	3240110	100		
- 50	- 1/0	silver	18.00	43.00	16.00	11.00	18.00	8.40	1.80	C-RC 50/M8 DIN	3240111	100		
- 50	- 1/0	silver	18.00	43.00	16.00	11.00	18.00	10.50	1.80	C-RC 50/M10 DIN	3240112	100		
- 50	- 1/0	silver	22.00	47.00	16.00	11.00	20.00	13.00	1.80	C-RC 50/M12 DIN	3240113	100		
- 50	- 1/0	silver	28.00	54.00	16.00	11.00	24.00	17.00	1.80	C-RC 50/M16 DIN	3240114	100		
- 70	- 2/0	silver	22.00	49.00	18.00	13.00	20.00	6.50	2.00	C-RC 70/M6 DIN	3240115	100		
- 70	- 2/0	silver	22.00	49.00	18.00	13.00	20.00	8.40	2.00	C-RC 70/M8 DIN	3240116	100		
- 70	- 2/0	silver	22.00	49.00	18.00	13.00	20.00	10.50	2.00	C-RC 70/M10 DIN	3240117	100		
- 95	- 3/0	silver	24.00	54.00	20.00	15.00	22.00	8.40	2.50	C-RC 95/M8 DIN	3240120	50		
- 95	- 3/0	silver	24.00	54.00	20.00	15.00	22.00	10.50	2.50	C-RC 95/M10 DIN	3240121	50		
- 95	- 3/0	silver	24.00	54.00	20.00	15.00	22.00	13.00	2.50	C-RC 95/M12 DIN	3240122	50		

## Ring cable lugs, non-insulated

Conductor cross sections from 0.5 to 240 mm<sup>2</sup>

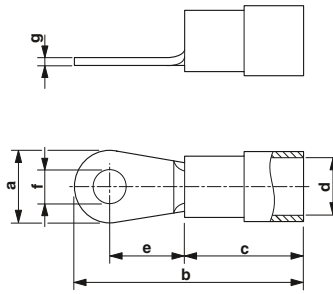
ERIC

General data				Technical data							Technical data		
Material / coating											Copper / Tin-plated		
Temperature range				[°C]							... 110		
Description	Cross section		Color	Dimensions [mm]							Type	Order No.	Pcs. / Pkt.
	[mm <sup>2</sup> ]	AWG		a	b	c	d	e	f	g			
<b>Ring cable lug, non-insulated, as per DIN 46234</b>													
	120	250	silver	24.00	56.00	22.00	16.50	22.00	8.40	3.00	<b>C-RC 120/M8 DIN</b>	<b>3240124</b>	25
	120	250	silver	24.00	56.00	22.00	16.50	22.00	10.50	3.00	<b>C-RC 120/M10 DIN</b>	<b>3240125</b>	25
	120	250	silver	24.00	56.00	22.00	16.50	22.00	13.00	3.00	<b>C-RC 120/M12 DIN</b>	<b>3240126</b>	25
	150	300	silver	30.00	65.00	24.00	19.00	26.00	10.50	3.20	<b>C-RC 150/M10 DIN</b>	<b>3240128</b>	25
	150	300	silver	30.00	65.00	24.00	19.00	26.00	13.00	3.20	<b>C-RC 150/M12 DIN</b>	<b>3240129</b>	25
	150	300	silver	30.00	65.00	24.00	19.00	26.00	17.00	3.20	<b>C-RC 150/M16 DIN</b>	<b>3240130</b>	25
	185	350	silver	36.00	74.00	28.00	21.00	22.00	10.50	3.50	<b>C-RC 185/M10 DIN</b>	<b>3240131</b>	20
	185	350	silver	36.00	74.00	28.00	21.00	22.00	13.00	3.50	<b>C-RC 185/M12 DIN</b>	<b>3240132</b>	20
	185	350	silver	36.00	74.00	28.00	21.00	22.00	17.00	3.50	<b>C-RC 185/M16 DIN</b>	<b>3240133</b>	20
	240	500	silver	38.00	75.00	32.00	23.50	24.00	10.50	4.00	<b>C-RC 240/M10 DIN</b>	<b>3240134</b>	10
	240	500	silver	38.00	75.00	32.00	23.50	24.00	13.00	4.00	<b>C-RC 240/M12 DIN</b>	<b>3240135</b>	10
	240	500	silver	38.00	75.00	32.00	23.50	24.00	17.00	4.00	<b>C-RC 240/M16 DIN</b>	<b>3240136</b>	10

Hand tools

Ring cable lugs, insulated

- The insulated ring cable lugs with plastic sleeve are hard-soldered and feature the 'EASY ENTRY' system
- The sleeves are conically tapered to facilitate easy and correct insertion of the conductor



Conductor cross sections from 0.5 to 10 mm<sup>2</sup>

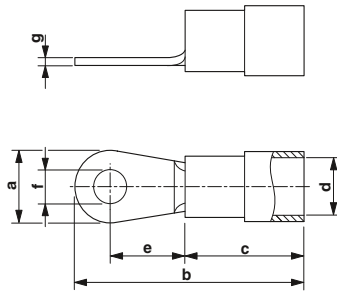
ERC

General data				Technical data								Technical data		
Material / coating												Copper / Tin-plated		
Temperature range				[°C]								-20 ... 105		
Description	Cross section		Color	Dimensions [mm]								Ordering data		
	[mm <sup>2</sup> ]	AWG		a	b	c	d	e	f	g	Type	Order No.	Pcs. / Pkt.	
<b>Ring cable lug, insulated, according to UL</b>														
	0.5 - 1.5	20 - 16	red	5.50	17.50	10.50	4.10	4.30	3.20	0.75	C-RCI 1,5/M3	3240016	100	
	0.5 - 1.5	20 - 16	red	5.50	17.50	10.50	4.10	4.30	3.70	0.75	C-RCI 1,5/M3,5	3240017	100	
	0.5 - 1.5	20 - 16	red	8.00	21.70	10.50	4.10	7.30	4.30	0.75	C-RCI 1,5/M4	3240018	100	
	0.5 - 1.5	20 - 16	red	8.00	21.70	10.50	4.10	7.30	5.30	0.75	C-RCI 1,5/M5	3240019	100	
	0.5 - 1.5	20 - 16	red	11.60	27.60	10.50	4.10	11.20	6.50	0.75	C-RCI 1,5/M6	3240020	100	
2.5 mm <sup>2</sup>	1.5 - 2.5	16 - 14	blue	6.60	20.60	11.00	4.50	7.80	3.20	0.80	C-RCI 2,5/M3	3240021	100	
	1.5 - 2.5	16 - 14	blue	6.60	20.60	11.00	4.50	6.30	3.70	0.80	C-RCI 2,5/M3,5	3240022	100	
	1.5 - 2.5	16 - 14	blue	8.50	23.00	11.00	4.50	7.80	4.30	0.80	C-RCI 2,5/M4	3240023	100	
	1.5 - 2.5	16 - 14	blue	9.50	23.00	11.00	4.50	7.30	5.30	0.80	C-RCI 2,5/M5	3240024	100	
	1.5 - 2.5	16 - 14	blue	12.00	28.10	11.00	4.50	11.00	6.50	0.80	C-RCI 2,5/M6	3240025	50	
	1.5 - 2.5	16 - 14	blue	12.00	28.10	11.00	4.50	11.00	8.50	0.80	C-RCI 2,5/M8	3240026	50	
	4 - 6	12 - 10	yellow	9.50	26.70	14.00	6.60	8.00	4.30	1.00	C-RCI 6/M4	3240027	50	
	4 - 6	12 - 10	yellow	9.50	26.70	14.00	6.60	8.00	5.30	1.00	C-RCI 6/M5	3240028	50	
	4 - 6	12 - 10	yellow	12.00	32.70	14.00	6.60	12.70	6.50	1.00	C-RCI 6/M6	3240029	25	
	4 - 6	12 - 10	yellow	15.00	34.90	14.00	6.60	13.40	8.50	1.00	C-RCI 6/M8	3240030	25	
	4 - 6	12 - 10	yellow	15.00	34.90	14.00	6.60	13.40	10.50	1.00	C-RCI 6/M10	3240031	25	
	- 10	- 8	red	10.00	31.30	16.00	7.50	10.90	5.30	1.10	C-RCI 10/M5	3240219	50	
	- 10	- 8	red	11.00	31.30	16.00	7.50	19.30	6.50	1.10	C-RCI 10/M6	3240220	50	
	- 10	- 8	red	14.00	37.30	16.00	7.50	13.80	8.40	1.10	C-RCI 10/M8	3240221	50	
	- 10	- 8	red	18.00	37.30	16.00	7.50	13.80	10.50	1.10	C-RCI 10/M10	3240222	50	



**Ring cable lugs, insulated with additional crimp zone for conductor insulation**

- The insulated ring cable lugs with plastic sleeve are hard-soldered and feature the 'EASY ENTRY' system
- The sleeves are conically tapered to facilitate easy and correct insertion of the conductor



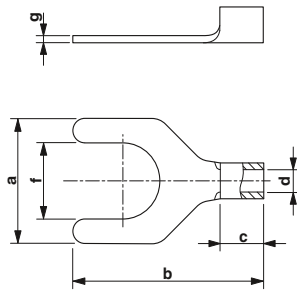
Conductor cross sections from 0.5 to 10 mm<sup>2</sup>

General data			Technical data							Technical data			
Material / coating										Copper / Tin-plated			
Temperature range		[°C]								-20 ... 105			
Description			Dimensions [mm]							Ordering data			
Description	Cross section		Color	a	b	c	d	e	f	g	Type	Order No.	Pcs. / Pkt.
	[mm <sup>2</sup> ]	AWG											
<b>Ring cable lug, insulated, with additional crimp zone for conductor insulation</b>													
	0.5 - 1.5	20 - 16	red	5.50	17.70	11.00	4.10	4.00	3.20	0.75	<b>C-RCEI 1,5/M3</b>	<b>3241201</b>	100
	0.5 - 1.5	20 - 16	red	6.60	20.60	11.00	4.10	6.30	3.70	0.75	<b>C-RCEI 1,5/M3,5</b>	<b>3241202</b>	100
	0.5 - 1.5	20 - 16	red	8.00	22.00	11.00	4.10	7.00	4.30	0.75	<b>C-RCEI 1,5/M4</b>	<b>3241203</b>	100
	0.5 - 1.5	20 - 16	red	8.00	22.00	11.00	4.10	7.00	5.30	0.75	<b>C-RCEI 1,5/M5</b>	<b>3241204</b>	100
	0.5 - 1.5	20 - 16	red	11.60	27.80	11.00	4.10	11.10	6.50	0.75	<b>C-RCEI 1,5/M6</b>	<b>3241205</b>	100
	1.5 - 2.5	16 - 14	blue	6.60	20.50	11.00	4.50	6.30	3.70	0.80	<b>C-RCEI 2,5/M3,5</b>	<b>3241206</b>	100
	1.5 - 2.5	16 - 14	blue	8.50	23.00	11.00	4.50	7.80	4.30	0.80	<b>C-RCEI 2,5/M4</b>	<b>3241207</b>	100
	1.5 - 2.5	16 - 14	blue	9.50	23.00	11.00	4.50	7.30	5.30	0.80	<b>C-RCEI 2,5/M5</b>	<b>3241208</b>	100
	1.5 - 2.5	16 - 14	blue	12.00	28.00	11.00	4.50	11.00	6.50	0.80	<b>C-RCEI 2,5/M6</b>	<b>3241209</b>	100
	1.5 - 2.5	16 - 14	blue	12.00	28.00	11.00	4.50	11.00	8.40	0.80	<b>C-RCEI 2,5/M8</b>	<b>3241210</b>	100
	4 - 6	12 - 10	yellow	9.50	26.00	13.00	6.50	8.30	5.30	1.00	<b>C-RCEI 6/M5</b>	<b>3241211</b>	100
	4 - 6	12 - 10	yellow	12.00	29.50	13.00	6.50	10.50	6.50	1.00	<b>C-RCEI 6/M6</b>	<b>3241212</b>	100
	4 - 6	12 - 10	yellow	15.00	34.20	13.00	6.50	13.70	8.40	1.00	<b>C-RCEI 6/M8</b>	<b>3241213</b>	100
	4 - 6	12 - 10	yellow	15.00	34.20	13.00	6.50	13.70	10.50	1.00	<b>C-RCEI 6/M10</b>	<b>3241214</b>	100

Hand tools

Fork-type cable lugs, insulated and non-insulated

- The fork-type cable lugs without plastic sleeve feature a hard-soldered neck. In conjunction with the CRIMPFOX-RC ... and CRIMPFOX-RCI ... pliers they can be used to achieve maximum conductor pull-out forces
- The insulated versions are halogen-free and feature "EASY ENTRY" technology



Conductor cross sections from 0.5 to 6 mm<sup>2</sup>

ERC

General data				Technical data								Technical data		
Material / coating												Copper / Tin-plated		
Temperature range				[°C]								... 110		
Description	Cross section		Color	Dimensions [mm]								Ordering data		
	[mm <sup>2</sup> ]	AWG		a	b	c	d	e	f	g	Type	Order No.	Pcs. / Pkt.	
<b>Fork-type cable lug, non-isolated DIN 46234</b>														
	0.5 - 1.5	20 - 16	silver	5.70	16.00	4.50	1.90	-	3.20	0.75	C-FC 1,5/M3	3240137	100	
	0.5 - 1.5	20 - 16	silver	6.20	16.00	4.50	1.90	-	3.70	0.75	C-FC 1,5/M3,5	3240138	100	
	0.5 - 1.5	20 - 16	silver	7.20	16.00	4.50	1.90	-	4.30	0.75	C-FC 1,5/M4	3240139	100	
	0.5 - 1.5	20 - 16	silver	8.00	16.00	4.50	1.90	-	5.30	0.75	C-FC 1,5/M5	3240140	100	
	0.5 - 1.5	20 - 16	silver	10.70	17.00	4.50	1.90	-	6.40	0.80	C-FC 1,5/M6	3240141	100	
2.5 mm <sup>2</sup>	1.5 - 2.5	16 - 14	silver	5.70	16.00	4.80	2.50	-	3.20	0.80	C-FC 2,5/M3	3240142	100	
	1.5 - 2.5	16 - 14	silver	6.20	16.00	4.80	2.50	-	3.70	0.80	C-FC 2,5/M3,5	3240143	100	
	1.5 - 2.5	16 - 14	silver	7.20	16.00	4.80	2.50	-	4.30	0.80	C-FC 2,5/M4	3240144	100	
	1.5 - 2.5	16 - 14	silver	8.00	16.00	4.80	2.50	-	5.30	0.80	C-FC 2,5/M5	3240145	100	
	1.5 - 2.5	16 - 14	silver	10.70	17.00	4.80	2.50	-	6.40	0.80	C-FC 2,5/M6	3240146	100	
	1.5 - 2.5	16 - 14	silver	13.50	22.10	4.80	2.50	-	8.40	0.80	C-FC 2,5/M8	3240147	100	
	2.6 - 6	12 - 10	silver	8.20	19.50	6.50	3.60	-	4.30	1.00	C-FC 6/M4	3240148	50	
	2.6 - 6	12 - 10	silver	9.00	19.50	6.50	3.60	-	5.30	1.00	C-FC 6/M5	3240149	50	
	2.6 - 6	12 - 10	silver	12.00	23.10	6.50	3.60	-	6.40	1.00	C-FC 6/M6	3240150	50	
	2.6 - 6	12 - 10	silver	13.50	25.00	6.50	3.60	-	8.40	1.00	C-FC 6/M8	3240151	50	

## Fork-type cable lugs, insulated and non-insulated

- The fork-type cable lugs without plastic sleeve feature a hard-soldered neck. In conjunction with the CRIMPFOX–RC ... and CRIMPFOX–RCI ... pliers they can be used to achieve maximum conductor pull-out forces
- The insulated versions are halogen-free and feature "EASY ENTRY" technology



0.5 to 6 mm<sup>2</sup> conductor cross sections

ERIC

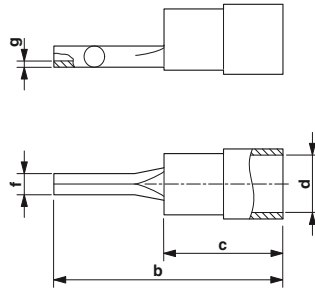
General data				Technical data								Technical data						
Material / coating												Copper / Tin-plated						
Temperature range				[°C]								-20 ... 105						
Description				Cross section		Color		Dimensions [mm]								Ordering data		
				[mm <sup>2</sup> ]	AWG			a	b	c	d	e	f	g	Type	Order No.	Pcs. / Pkt.	
<b>Fork-type cable lug, insulated, according to UL</b>																		
0.5 - 1.5				20 - 16	red	5.70	22.00	10.50	4.10	-	3.20	0.75	C-FCI 1,5/M3	3240032	100			
0.5 - 1.5				20 - 16	red	5.70	22.00	10.50	4.10	-	3.70	0.75	C-FCI 1,5/M3,5	3240033	100			
0.5 - 1.5				20 - 16	red	7.20	22.00	10.50	4.10	-	4.30	0.75	C-FCI 1,5/M4	3240034	100			
0.5 - 1.5				20 - 16	red	8.00	22.00	10.50	4.10	-	5.30	0.75	C-FCI 1,5/M5	3240035	100			
0.5 - 1.5				20 - 16	red	10.70	22.00	10.50	4.10	-	6.50	0.75	C-FCI 1,5/M6	3240036	100			
2.5 mm <sup>2</sup>	1.5 - 2.5				16 - 14	blue	5.70	22.50	11.00	4.50	-	3.20	0.80	C-FCI 2,5/M3	3240037	100		
	1.5 - 2.5				16 - 14	blue	5.70	22.50	11.00	4.50	-	3.70	0.80	C-FCI 2,5/M3,5	3240038	100		
	1.5 - 2.5				16 - 14	blue	7.20	22.50	11.00	4.50	-	4.30	0.80	C-FCI 2,5/M4	3240039	100		
	1.5 - 2.5				16 - 14	blue	8.00	22.50	11.00	4.50	-	5.30	0.80	C-FCI 2,5/M5	3240040	50		
	1.5 - 2.5				16 - 14	blue	10.70	22.50	11.00	4.50	-	6.50	0.80	C-FCI 2,5/M6	3240041	50		
	4 - 6				12 - 10	yellow	8.20	26.70	14.00	6.60	-	4.30	1.00	C-FCI 6/M4	3240042	50		
	4 - 6				12 - 10	yellow	9.00	26.70	14.00	6.60	-	5.30	1.00	C-FCI 6/M5	3240043	50		
	4 - 6				12 - 10	yellow	12.00	30.30	14.00	6.60	-	6.50	1.00	C-FCI 6/M6	3240044	25		
4 - 6				12 - 10	yellow	13.50	32.80	14.00	6.60	-	8.50	1.00	C-FCI 6/M8	3240045	25			

Hand tools

Pin cable lugs, insulated

The key features of the insulated pin cable lugs with plastic collars are as follows:

- "EASY ENTRY" for easy and reliable conductor entry
- Hard-soldered crimping zone for maximum extraction forces
- Electrolytic tin plating
- Halogen-free



Conductor cross sections from 0.5 to 6 mm<sup>2</sup>

General data

Material / coating  
Temperature range [°C]

Description	Cross section		Color
	[mm <sup>2</sup> ]	AWG	
Pin cable lug, isolated as per UL	0.5 - 1.5	20 - 16	red
	1.5 - 2.5	16 - 14	blue
	4 - 6	12 - 10	yellow

Dimensions [mm]							
a	b	c	d	e	f	g	
-	22.50	10.50	4.10	-	2.00	0.75	
-	23.00	11.00	4.50	-	2.00	0.80	
-	27.50	14.00	6.60	-	2.70	0.80	

ERC

Technical data

Copper / Tin-plated  
-20 ... 105

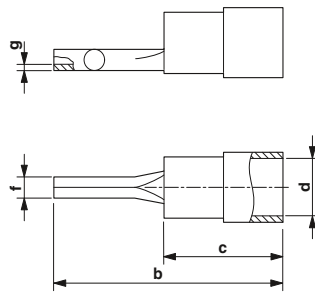
Ordering data

Type	Order No.	Pcs. / Pkt.
C-PCI 1,5/2	3240064	100
C-PCI 2,5/2	3240066	100
C-PCI 6/2,7	3240068	50

Pin cable lugs, insulated with additional crimp zone for conductor insulation

The key features of the insulated pin cable lugs with plastic collars are as follows:

- "EASY ENTRY" for easy and reliable conductor entry
- Hard-soldered crimping zone for maximum extraction forces
- Electrolytic tin plating
- Halogen-free



Conductor cross sections from 0.5 to 6 mm<sup>2</sup>

General data

Material / coating  
Temperature range [°C]

Description	Cross section		Color
	[mm <sup>2</sup> ]	AWG	
Pin cable lug, insulated, with additional crimp zone for conductor insulation	0.5 - 1.5	20 - 16	red
	1.5 - 2.5	16 - 14	blue
	4 - 6	12 - 10	yellow

Dimensions [mm]							
a	b	c	d	e	f	g	
-	23.50	11.00	4.10	-	1.90	0.75	
-	23.50	11.00	4.50	-	1.90	0.80	
-	26.70	13.00	6.50	-	2.80	0.80	

Technical data

Copper / Tin-plated  
-20 ... 105

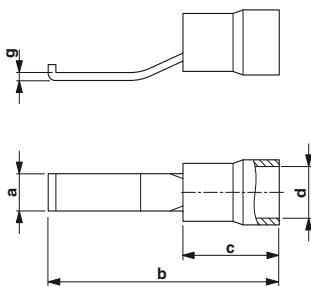
Ordering data

Type	Order No.	Pcs. / Pkt.
C-PCEI 1,5/2	3241215	100
C-PCEI 2,5/2	3241216	100
C-PCEI 6/2	3241217	100

### Flat pin cable lugs with hooks, insulated

The key features of the flat pin cable lugs with plastic collars are as follows:

- "EASY ENTRY" for easy and reliable conductor entry
- Electrolytic tin plating
- Halogen-free



Conductor cross sections from 0.5 to 6 mm<sup>2</sup>

ERIC

General data	
Material / coating	
Temperature range	[°C]

#### Technical data

Copper / Tin-plated  
-20 ... 105

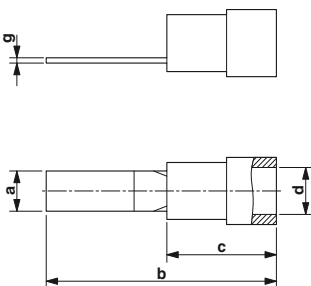
Description	Cross section		Color	Dimensions [mm]						
	[mm <sup>2</sup> ]	AWG		a	b	c	d	e	f	g
<b>Flat pin cable lug, insulated</b>										
	0.5 - 1.5	20 - 16	red	2.80	28.00	10.50	4.00	-	-	0.80
	0.5 - 1.5	20 - 16	red	4.60	28.00	10.50	4.00	-	-	0.80
	1.5 - 2.5	16 - 14	blue	2.80	28.50	11.00	4.50	-	-	0.80
	1.5 - 2.5	16 - 14	blue	4.60	28.50	11.00	4.50	-	-	0.80
	4 - 6	12 - 10	yellow	2.80	32.00	14.00	6.50	-	-	0.80
	4 - 6	12 - 10	yellow	4.60	32.00	14.00	6.50	-	-	1.00
<b>Flat pin cable lug, approved for horizontal crushing. Also ideal for spring-assisted USST... screw terminal blocks</b>										
	4 - 6	12 - 10	yellow	2.80	30.50	13.00	6.50	-	-	0.80
	4 - 6	12 - 10	yellow	4.60	30.50	13.00	6.50	-	-	1.00

#### Ordering data

Type	Order No.	Pcs. / Pkt.
C-BCI 1,5/2,8	3240015	100
C-BCI 1,5/4,6	3240568	100
C-BCI 2,5/2,8	3240046	100
C-BCI 2,5/4,6	3240569	100
C-BCI 6/2,8	3240047	50
C-BCI 6/4,6	3240570	50
C-BCI 6/2,8 SO	3240057	50
C-BCI 6/4,6 SO	3240067	50

### Flat pin cable lugs, straight, insulated

- Easy and reliable conductor entry thanks to "EASY ENTRY"
- Hard-soldered crimping zone for maximum conductor pull-out force in connection with CRIMPFOX RCI... pliers
- Electrogalvanized
- Halogen-free



Conductor cross sections from 0.5 to 6 mm<sup>2</sup>

ERIC

General data	
Material / coating	
Temperature range	[°C]

#### Technical data

CU / electrogalvanized  
-20 ... 105

Description	Cross section		Color	Dimensions [mm]						
	[mm <sup>2</sup> ]	AWG		a	b	c	d	e	f	g
<b>Flat pin cable lug, insulated, pin dimensions:</b>										
19.5 x 2.8 mm	0.5 - 1.5	20 - 16	red	2.80	19.50	10.50	4.10	-	-	0.75
20 x 2.8 mm	1.5 - 2.5	16 - 14	blue	2.80	20.00	11.00	4.50	-	-	0.80
32 x 4.5 mm	4 - 6	12 - 10	yellow	2.80	24.00	14.00	6.60	-	-	1.00
24 x 2.8 mm	4 - 6	12 - 10	yellow	4.50	32.00	14.00	6.60	-	-	1.00

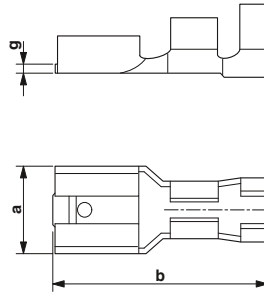
#### Ordering data

Type	Order No.	Pcs. / Pkt.
C-BCSI 1,5/9X2,8	3240531	100
C-BCSI 2,5/9X2,8	3240532	100
C-BCSI 6/10X2,8	3240546	100
C-BCSI 6/18X4,5	3240533	50

Hand tools

Slip-on sleeves and flat connectors, non-insulated

- The non-insulated slip-on sleeves and flat connectors are made from electrolytically tin-plated brass
- They complete the product range in terms of connectors



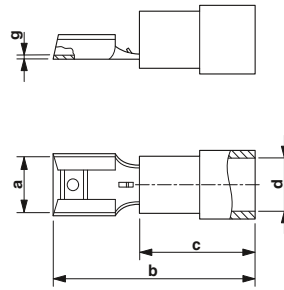
Conductor cross sections from 0.5 to 6 mm<sup>2</sup>

General data				Technical data							Technical data								
Material / coating											Brass / Tin-plated								
Temperature range				[°C]							... 110								
Description				Cross section		Color		Dimensions [mm]							Ordering data				
				[mm <sup>2</sup> ]	AWG			a	b	c	d	e	f	g	Type	Order No.	Pcs. / Pkt.		
<b>Slip-on sleeve</b> , non-isolated as per DIN 46247																			
				0.5 - 1	20 - 18	silver		2.80	14.50	-	-	-	-	-	0.30	C-SCF 1/2,8X0,5	3240152	100	
				0.5 - 1	20 - 18	silver		2.80	12.50	-	-	-	-	-	0.30	C-SCF 1/2,8X0,8	3240153	100	
				0.5 - 1.5	20 - 16	silver		4.80	15.60	-	-	-	-	-	0.40	C-SCF 1,5/4,8X0,5	3240154	100	
				0.5 - 1.5	20 - 16	silver		4.80	15.60	-	-	-	-	-	0.40	C-SCF 1,5/4,8X0,8	3240155	100	
				0.5 - 1.5	20 - 16	silver		6.30	19.20	-	-	-	-	-	0.40	C-SCF 1,5/6,3X0,8	3240156	100	
				1.5 - 2.5	16 - 14	silver		4.80	15.60	-	-	-	-	-	0.40	C-SCF 2,5/4,8X0,5	3240157	100	
				1.5 - 2.5	16 - 14	silver		4.80	15.60	-	-	-	-	-	0.40	C-SCF 2,5/4,8X0,8	3240158	100	
				1.5 - 2.5	16 - 14	silver		6.30	19.20	-	-	-	-	-	0.40	C-SCF 2,5/6,3X0,8	3240159	100	
				4 - 6	12 - 10	silver		6.30	19.20	-	-	-	-	-	0.40	C-SCF 6/6,3X0,8	3240160	100	
<b>Flat connector</b> , non-isolated as per DIN 46248																			
				0.5 - 1.5	20 - 16	silver		6.30	20.00	-	-	-	-	-	0.80	C-SCM 1,5/6,3X0,8	3240161	100	
				1.5 - 2.5	16 - 14	silver		6.30	20.00	-	-	-	-	-	0.80	C-SCM 2,5/6,3X0,8	3240162	100	
<b>Insulating sleeve</b> , as shock protection for slip-on sleeves, to be threaded onto the cable in advance																			
For 2.8 mm slip-on sleeves						transparent									PT/FS 2,8			1406700	500
For 4.8 mm slip-on sleeves						transparent									PT/FS 4,8			1670497	25
For 6.3 mm slip-on sleeves						transparent									PT/FS 6,3			0604707	500

**Slip-on sleeves and flat connectors, insulated**

The key features of the insulated flat connectors and slip-on sleeves with plastic collars are as follows:

- "EASY ENTRY" for easy and reliable conductor entry
- Hard-soldered crimping zone for maximum extraction forces
- Electrolytic tin plating
- Halogen-free



Conductor cross sections from 0.5 to 6 mm<sup>2</sup>

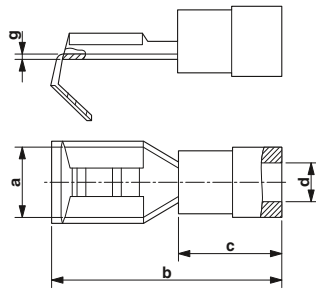
ERIC

General data				Technical data								Technical data		
Material / coating												Brass / Tin-plated		
Temperature range				[°C]								-20 ... 105		
Description	Cross section		Color	Dimensions [mm]								Ordering data		
	[mm <sup>2</sup> ]	AWG		a	b	c	d	e	f	g	Type	Order No.	Pcs. / Pkt.	
<b>Slip-on sleeve, insulated, according to UL</b>														
	0.5 - 1.5	20 - 16	red	2.80	18.50	10.50	4.10	-	-	0.25	C-SCFI 1,5/2,8X0,5	3240048	100	
	0.5 - 1.5	20 - 16	red	2.80	18.50	10.50	4.10	-	-	0.25	C-SCFI 1,5/2,8X0,8	3240049	100	
	0.5 - 1.5	20 - 16	red	4.80	19.50	10.50	4.10	-	-	0.40	C-SCFI 1,5/4,8X0,5	3240050	100	
	0.5 - 1.5	20 - 16	red	4.80	19.50	10.50	4.10	-	-	0.40	C-SCFI 1,5/4,8X0,8	3240051	100	
	0.5 - 1.5	20 - 16	red	6.30	21.50	10.50	4.10	-	-	0.40	C-SCFI 1,5/6,3X0,8	3240052	100	
	1.5 - 2.5	16 - 14	blue	4.80	20.00	11.00	5.00	-	-	0.40	C-SCFI 2,5/4,8X0,5	3240053	50	
	1.5 - 2.5	16 - 14	blue	4.80	20.00	11.00	5.00	-	-	0.40	C-SCFI 2,5/4,8X0,8	3240054	50	
	1.5 - 2.5	16 - 14	blue	6.30	22.00	11.00	5.00	-	-	0.40	C-SCFI 2,5/6,3X0,8	3240055	50	
	4 - 6	12 - 10	yellow	6.30	25.00	14.00	6.60	-	-	0.40	C-SCFI 6/6,3X0,8	3240056	50	
<b>Slip-on blade connector, insulated, according to UL</b>														
	0.5 - 1.5	20 - 16	red	6.30	22.00	10.50	4.10	-	-	0.80	C-SCMI 1,5/6,3X0,8	3240058	100	
	1.5 - 2.5	16 - 14	blue	6.30	22.50	11.00	4.50	-	-	0.80	C-SCMI 2,5/6,3X0,8	3240059	50	
	4 - 6	12 - 10	yellow	6.30	24.50	14.00	6.60	-	-	0.80	C-SCMI 6/6,3X0,8	3240060	50	

Hand tools

Slip-on distributor, insulated

- Easy and reliable conductor entry thanks to "EASY ENTRY"
- Hard-soldered crimping zone for maximum conductor pull-out force in connection with CRIMPFOX RCI... pliers
- Electroalvanized
- Halogen-free



Conductor cross sections from 0.5 to 2.5 mm<sup>2</sup>

General data

Material / coating	
Temperature range	[°C]

Description	Cross section		Color
	[mm <sup>2</sup> ]	AWG	
Slip-on distributor, insulated, for 6.3 x 0.8 mm plugs and sleeves			
	0.5 - 1.5	20 - 16	red
	1.5 - 2.5	16 - 14	blue

Dimensions [mm]							
a	b	c	d	e	f	g	g
6.30	22.50	10.50	41.00	-	-	0.40	0.40
6.30	23.00	11.00	11.00	-	-	0.40	0.40

ERC

Technical data

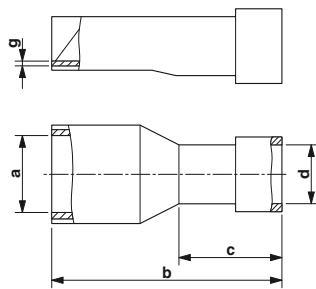
Brass / electroalvanized  
-20 ... 105

Ordering data

Type	Order No.	Pcs. / Pkt.
C-SCFMI 1,5/6,3X0,8	3240529	50
C-SCFMI 2,5/6,3X0,8	3240530	50

Slip-on sleeves, fully insulated

- Easy and reliable conductor entry, thanks to "EASY ENTRY"
- Hard-soldered crimping zone for maximum conductor pull-out force in connection with CRIMPFOX RCI... pliers
- Electroalvanized
- Halogen-free



Conductor cross sections from 0.5 to 6 mm<sup>2</sup>

General data

Material / coating	
Temperature range	[°C]

Description	Cross section		Color
	[mm <sup>2</sup> ]	AWG	
Slip-on sleeve, fully insulated, for connectors:			
2.8 x 0.5 mm	0.5 - 1.5	20 - 16	red
2.8 x 0.8 mm	0.5 - 1.5	20 - 16	red
4.8 x 0.5 mm	0.5 - 1.5	20 - 16	red
4.8 x 0.8 mm	0.5 - 1.5	20 - 16	red
6.3 x 0.8 mm	0.5 - 1.5	20 - 16	red
4.8 x 0.5 mm	1.5 - 2.5	16 - 14	blue
4.8 x 0.8 mm	1.5 - 2.5	16 - 14	blue
6.3 x 0.8 mm	1.5 - 2.5	16 - 14	blue
6.3 x 0.8 mm	4 - 6	12 - 10	yellow

Dimensions [mm]							
a	b	c	d	e	f	g	g
2.80	19.00	10.50	4.30	-	-	0.25	0.25
2.80	19.00	10.50	4.30	-	-	0.25	0.25
4.80	19.50	10.50	4.30	-	-	0.40	0.40
4.80	19.50	10.50	4.30	-	-	0.40	0.40
6.30	21.50	10.50	4.30	-	-	0.40	0.40
4.80	20.00	11.00	5.00	-	-	0.40	0.40
4.80	20.00	11.00	5.00	-	-	0.40	0.40
6.30	22.00	11.00	5.00	-	-	0.40	0.40
6.30	26.00	14.00	6.60	-	-	0.40	0.40

ERC

Technical data

Brass / electroalvanized  
-20 ... 105

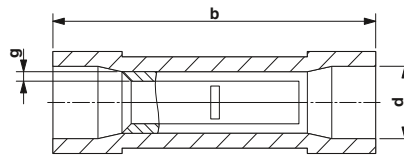
Ordering data

Type	Order No.	Pcs. / Pkt.
C-SCFFI 1,5/2,8X0,5	3240534	50
C-SCFFI 1,5/2,8X0,8	3240535	50
C-SCFFI 1,5/4,8X0,5	3240536	50
C-SCFFI 1,5/4,8X0,8	3240537	50
C-SCFFI 1,5/6,3X0,8	3240538	50
C-SCFFI 2,5/4,8X0,5	3240539	50
C-SCFFI 2,5/4,8X0,8	3240540	50
C-SCFFI 2,5/6,3X0,8	3240547	25
C-SCFFI 6/6,3X0,8	3240541	25



**Butt connector, fully insulated**

- Conductor through connection protection
- Hard-soldered crimping zone for maximum conductor pull-out force in connection with CRIMPFOX RCI... pliers
- Electrogalvanized
- Halogen-free



Conductor cross sections from 0.5 to 6 mm<sup>2</sup>

General data			Technical data						
Material / coating									
Temperature range		[°C]							
Description	Cross section		Dimensions [mm]						
	[mm <sup>2</sup> ]	AWG	a	b	c	d	e	f	g
Butt connector, insulated	0.5 - 1.5	20 - 16	-	25.00	-	4.00	-	-	0.75
	1.5 - 2.5	16 - 14	-	25.30	-	4.50	-	-	0.80
	4 - 6	12 - 10	-	27.50	-	6.50	-	-	1.00

ERIC

Technical data		
CU / electrogalvanized		
-20 ... 105		
Ordering data		
Type	Order No.	Pcs. / Pkt.
C-JCI 1,5	3240061	50
C-JCI 2,5	3240062	50
C-JCI 6	3240063	25



# Automatic devices - TOOL fox

Phoenix Contact provides a comprehensive range of innovative automatic tools for flexible and fast processing of conductors and cables where various steps can be automated.

A combination of functionality, quality, and short modification times guarantees high levels of flexibility while ensuring excellent results every time. Cutting machines, stripping machines, and crimping machines are available.

## Product range overview

<b>Automatic devices</b>	<b>468</b>
Automatic cutting device for conductors and cables	470
Stripping machine	471
Pneumatic crimping pliers	472
Portable crimping machine for ferrules, cable lugs, and connectors	476
CRIMPHANDY portable hand-held machine	478
Portable stripping and crimping machine for taped products	478
Ferrules with plastic sleeve, taped	479
Stripping and crimping machine for bulk goods	480



Automatic stripping



Automatic crimping



Automatic stripping and crimping in a single operation



The CUTFOX 10 automatic cutting device cuts conductors and cables with a cross section of up to 10 mm<sup>2</sup>. Solid and stranded conductors can be cut to length with millimeter precision. The length and number of cuts is entered via the user-friendly display. The CUTFOX 10 automatically adapts to the diameter when there is a change in material.



The WF 1000 stripping machine enables the automatic stripping of conductors with a cross section of up to 6 mm<sup>2</sup> or cables with a diameter of up to 6 mm, as well as the option of partial stripping. The stripping dimensions are set individually via rotary buttons and shown visually on the display.



The Crimphandy is a portable hand-held device for stripping and crimping ferrules in one step. Automatic monitoring functions ensure permanent, high-quality crimping.



The CF 500 crimping device is characterized by a high press capacity in a compact design. Thanks to the adjustable press capacity and interchangeable dies, it is suitable for insulated cable lugs, tubular cable lugs, and crimping wire lugs, as well as slip-on sleeves and ferrules up to 50 mm<sup>2</sup>.



The CF 3000-2,5 stripping and crimping machine processes taped ferrules with insulating collars in accordance with DIN 46228-4. This device allows conductors with a cross section range of 0.25 - 2.5 mm<sup>2</sup> to be stripped and fitted with ferrules in one operation. The automatic device can be adapted to various cross sections in under a minute.



The automatic stripping and crimping machine CF 1000 processes loose (bulk) ferrules with insulating collars in accordance with DIN 46228-4. Using this machine, conductors can be stripped and fitted with ferrules in one operation.

Automatic devices

Automatic cutting device for conductors and cables



- The automatic cutting device can be used to cut conductors, cables, and similar profiles
- It impresses with its easy handling and enables materials to be changed in a matter of seconds
- The desired length and number of cuts can be specified in a user-friendly way via the display
- The drive and measurement rolls automatically adjust to each inserted diameter
- Additional inputs and settings are not necessary
- High length accuracy, thanks to separate measuring and transport roll
- Light weight enables mobile use

**Notes:**  
An application video can be found in the download area for the relevant product on our website at phoenixcontact.net/products.



Conductor cross sections from 0.25 to 10 mm<sup>2</sup>

Dimensions	
	[mm]
General data	
Weight	[kg]
Power consumption	[VA]
Cutting efficiency	
Finely stranded	[mm <sup>2</sup> ]
Solid strand	[mm <sup>2</sup> ]
Max. throughput	[mm]
Cross section setting	
Maximum number of cuts	[Pcs.]
Length	[mm]
Feed rate	[m/s]
Unit of measurement	
Dialog language	

Description
<b>Automatic cutting device</b> , 100 - 240 V/50 - 60 Hz version, for conductors and cables with a diameter of up to 8 mm, solid (up to 2.5 mm <sup>2</sup> ) and stranded (up to 10 mm <sup>2</sup> )

**Cable unwinders**, for CUTFOX 10, for accommodating and gently unwinding cable rings and coils, complete

**Turntable**, for CUTFOX 10 cable unwinders, for accommodating cable rings and cable coils

**Retaining bolts**, for CUTFOX 10 rotary table, 4 pcs.

**Replacement drive rollers**, for CUTFOX 10, 2 pcs.

**Spare knife set**, for CUTFOX 10

**Drive rollers for CUTFOX 10**, 2 pcs., with PU tread, for sensitive cables/conductors and their insulation

**Drive rollers for CUTFOX 10**, 2 pcs., with hardened, finely knurled steel tread, for very hard insulation and materials.



ERC

Technical data		
Width	Length	Height
195	295	230

Weight	[kg]	11
Power consumption	[VA]	80
Cutting efficiency		
Finely stranded	[mm <sup>2</sup> ]	0.25 - 10
Solid strand	[mm <sup>2</sup> ]	0.25 - 2.5
Max. throughput	[mm]	8
Cross section setting		automatic
Maximum number of cuts	[Pcs.]	999
Length	[mm]	2 ... 99999
Feed rate	[m/s]	0.5
Unit of measurement		mm/inch
Dialog language		German / English / French / Italian

Ordering data		
Type	Order No.	Pcs. / Pkt.
CUTFOX 10	1206829	1

Accessories		
Type	Order No.	Pcs. / Pkt.
CUTFOX 10 C-UN	1208393	1
CUTFOX 10 R-C	1208403	1
CUTFOX 10 BAR	1208416	1
CF-10 WHEEL SET	1207271	1
CF-10 CUTTER KNIFE SET	1207284	1
CF-10 WHEEL SET PU	1200098	1
CF-10 WHEEL SET STEEL	1200099	1

## Stripping machine



- Compact stripping machine for automatically stripping conductors with a cross section of 0.08 to 6 mm<sup>2</sup>
- Multi-strand cables with a diameter of up to 6 mm can also be stripped
- Partial stripping is supported
- Even special types of insulation, such as PTFE and silicone, can be stripped in addition to standard types
- The clamping force automatically adjusts itself to the required extraction force, this reduces/prevents pressure points on sensitive insulation
- The stripping dimensions are set individually via rotary buttons and shown visually on the large display

## Notes:

An application video can be found in the download area for the relevant product on our website at [phoenixcontact.net/products](http://phoenixcontact.net/products).



Conductor cross sections from 0.08 to 6 mm<sup>2</sup>

ERIC

Dimensions	
	[mm]
General data	
Weight	[kg]
Power consumption	[VA]
Working cycle	[s]
Stripping power	
Finely stranded	[mm <sup>2</sup> ]
Stripping length	[mm]
Partial stripping length	[mm]
Max. throughput	[mm]

Technical data		
Width	Length	Height
141	363	221
Weight	9.5	[kg]
Power consumption	160	[VA]
Working cycle	0.3	[s]
Stripping power		
Finely stranded	0.08 - 6	[mm <sup>2</sup> ]
Stripping length	3-20	[mm]
Partial stripping length	2-20	[mm]
Max. throughput	6	[mm]

Description
<b>Stripping machine</b> , 230 V/50 Hz version, for conductors and cables, solid and stranded 0.08 - 6 mm <sup>2</sup> (maximum Ø 6 mm), with integrated graphic display
<b>Stripping machine</b> , 120 V/60 Hz version, for conductors and cables, solid and stranded 0.08 - 6 mm <sup>2</sup> (maximum Ø 6 mm), with integrated graphic display

Ordering data		
Type	Order No.	Pcs. / Pkt.
WF 1000	1212149	1
WF 1000 120V	1212258	1

<b>Spare stripping knife</b> , for WF 1000
<b>Actuation button</b> for WF 1000
<b>Replacement receptacle tray</b> , for WF 1000

Accessories		
Type	Order No.	Pcs. / Pkt.
WF 1000/SB	1212279	1
WF 1000/TR	1212416	1
WF 1000/COV	1212417	1

Automatic devices

Pneumatic crimping pliers

- These crimping pliers are pneumatic tools for ferrules with a cross section range of 0.25 to 10 mm<sup>2</sup>
- The perfect alternative to the hand pliers, which protects joints and tendons. They are light, easy to handle, and perfect for control cabinet manufacturing
- The ZAP...T table models are designed for work at the workbench and equipped with a foot switch. This keeps both hands free for equipping the conductor



Conductor cross sections from 0.25 to 2.5 mm<sup>2</sup>



Conductor cross section of 0.25 to 4 mm<sup>2</sup>

		Technical data			Technical data		
<b>Application range</b>							
Conductor	[mm <sup>2</sup> ] / AWG	0.25 - 2.5 / 24 - 14			0.25 - 4 / 24 - 12		
Pressure range	[bar]	4 - 6			4 - 6		
Air consumption per compression	[l]	0.2			0.2		
Compression		trapezoidal			trapezoidal		
		Ordering data			Ordering data		
Description		Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
<b>Pneumatic crimping pliers</b> , for ferrules according to DIN 46228, universal die, lateral and front entry		ZAP 25	1203110	1			
<b>Pneumatic crimping pliers</b> , for ferrules according to DIN 46228, three marked die stations, lateral entry					ZAP 40	1212630	1
<b>Pneumatic crimping pliers</b> , for ferrules according to DIN 46228, three marked die stations, lateral entry							
<b>Pneumatic crimping pliers</b> , for ferrules according to DIN 46228, universal die, lateral and front entry, with foot switch and table clamp							
<b>Pneumatic crimping pliers</b> , for ferrules according to DIN 46228, Universal die, lateral and front entry, with foot switch and table clamp							





Conductor cross sections from 4 to 10 mm<sup>2</sup>



Conductor cross sections from 0.25 to 2.5 mm<sup>2</sup>



Conductor cross sections from 4 to 10 mm<sup>2</sup>

Technical data
4 - 10 / 12 - 8
4 - 6
0.2
trapezoidal

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZAP 100	1203259	1

Technical data
0.25 - 2.5 / 24 - 14
4 - 6
0.2
trapezoidal

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZAP 25 T	1203123	1

Technical data
4 - 10 / 12 - 8
4 - 6
0.2
trapezoidal

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZAP 100 T	1203262	1

Automatic devices

Portable crimping machine for ferrules, cable lugs, and connectors



A key feature of the CF 500 is its easy handling and high degree of flexibility. A huge range of different contact types can be processed with the crimping device. Positioning aids make it easier to crimp the contacts.

- The crimp inserts can be changed quickly and easily in a matter of seconds
- The carrier handle means that it is also suitable for mobile use
- The crimping procedure is activated via a foot switch. This keeps both hands free for equipping the conductors with the appropriate contacts
- The contact can be fixed in place before the crimping procedure via an additional two-stage operating mode. This makes it easier to process crimp contacts and prevents incorrect crimping

<b>Notes:</b>
See data sheet for further technical data.
For more information about dies, visit: <a href="http://phoenixcontact.net/products">phoenixcontact.net/products</a> .
An application video can be found in the download area for the relevant product on our website at <a href="http://phoenixcontact.net/products">phoenixcontact.net/products</a> .



Connectors up to 50 mm<sup>2</sup>

<b>Dimensions</b>	[mm]
<b>General data</b>	
Weight	[kg] 10
Power consumption	[VA] 160
Pressure	[kN] 10
Working cycle	[s] 1

<b>Description</b>
<b>Crimping device</b> , 230 V/50 Hz version, with quantity counter and foot switch 230 V version
<b>Crimping device</b> , 120 V/60 Hz version, with quantity counter and foot switch 120 V design

<b>CF 500 protective cover</b> , without recess (for all dies without assignment)
For ferrules of up to 6 mm <sup>2</sup> (AI 6...)
For TWIN ferrules (AI-TWIN...)
For insulated cable lugs (RCI..., TC4)
For uninsulated cable lugs 0.5 - 10 mm <sup>2</sup> (RC...FC...)
For uninsulated cable lugs and tubular cable lugs 0.34 - 2.5 mm <sup>2</sup> (RC...FC...)
For slip-on sleeves and flat connectors SC 1,5... and SC 6...
For FBS ... plug-in bridges
<b>CF 500 Locator</b> , for slip-on sleeves (SCF...), 0.1 - 1.5 mm <sup>2</sup> , width: 2.8 mm, length: 5 mm
For slip-on sleeves (SCF...), width: 4.8 mm, 0.5 - 2.5 mm <sup>2</sup>
For slip-on sleeves (SCF...) width: 6.3 mm, 0.5 - 6 mm <sup>2</sup>
For slip-on sleeves (SCM...), width: 6.3 mm, 0.5 - 2.5 mm <sup>2</sup>
For slip-on sleeves (SCM...), width: 6.3 mm, 1.5 - 6 mm <sup>2</sup>

ERC

Technical data		
Width	Length	Height
140	220	320

Ordering data		
Type	Order No.	Pcs. / Pkt.
CF 500-230V	1208348	1
CF 500-120V	1208351	1

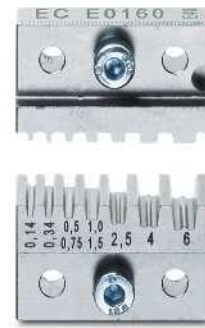
Accessories		
CF 500/COV	1212250	1
CF 500/COV AI 6	1212254	1
CF 500/COV AI TWIN	1212266	1
CF 500/COV RCI	1212255	1
CF 500/COV RC 10	1212252	1
CF 500/COV RCT 2,5	1212253	1
CF 500/COV SC	1212251	1
CF 500/COV FBS	1212462	1
CF 500/LOC SCF 2,8/1,5	1212249	1
CF 500/LOC SCF 4,8/2,5	1212248	1
CF 500/LOC SCF 6,3/6	1212247	1
CF 500/LOC SCM 6,3/2,5	1212264	1
CF 500/LOC SCM 6,3/6	1212265	1

## Dies for crimping machine



The large number of crimping dies makes the CF 500 an all-rounder.

- In addition to standard contacts, there are a range of special dies to be used, which (among other things) enable the FBS... jumpers from the CLIPLINE complete system
- FBS ...-4, FBS ...-5, FBS ...-6, FBS ...-8
- If the die you require is not listed, please contact us



ERIC

## Ordering data

Description	Type	Order No.	Pcs. / Pkt.
<b>CF 500 die</b> , for ferrules (A... and Al...) 0,25-6 mm <sup>2</sup>			
For ferrules (A... and Al...) 10, 16 and 25 mm <sup>2</sup>	<b>CF 500/DIE AI 6</b>	1212238	1
	<b>CF 500/DIE AI 25</b>	1212239	1
For ferrules (A... and Al...) 35 and 50 mm <sup>2</sup>	<b>CF 500/DIE AI 50</b>	1212261	1
For TWIN ferrules (AI-TWIN...) 2 x 4, 2 x 6 and 2 x 10 mm <sup>2</sup>	<b>CF 500/DIE AI-TWIN 10</b>	1212262	1
<b>CF 500 die</b>			
For insulated cable lugs (RCI... and FCI...) 0,14 - 1,5 mm <sup>2</sup>	<b>CF 500/DIE RCI 1,5</b>	1212263	1
For insulated cable lugs (RCI... and FCI...) 0,5 - 6 mm <sup>2</sup>	<b>CF 500/DIE RCI 6</b>	1212240	1
For insulated cable lugs (RCI... and FCI...) 0,5 - 6 mm <sup>2</sup> (asymmetrical crushing mold)	<b>CF 500/DIE RCI 6-1</b>	1212691	1
For cable lugs (RC... and FC...) 0,5 - 10 mm <sup>2</sup>	<b>CF 500/DIE RC 10</b>	1212244	1
For cable lugs (RC... and FC...) 16 mm <sup>2</sup>	<b>CF 500/DIE RC 16</b>	1212257	1
<b>CF 500 die</b>			
For slip-on sleeves and flat connectors (SCF... and SCM...) 0,1 - 1,5 mm <sup>2</sup>	<b>CF 500/DIE SC 1,5</b>	1212241	1
For slip-on sleeves and flat connectors (SCF... and SCM...) 0,5 - 6 mm <sup>2</sup>	<b>CF 500/DIE SC 6</b>	1212242	1
<b>CF 500 die</b>			
For turned contacts with pin diameters 2,5 and 4,0 mm (CK 2,5..., CK 4,0) 0,14 - 4 mm <sup>2</sup>	<b>CF 500/DIE TC 4</b>	1212237	1
For turned contacts (CK 4,0) 6 - 10 mm <sup>2</sup>	<b>CF 500/DIE TC 10</b>	1212260	1
<b>CF 500 die</b> , for MC 4 solar contacts, 2,5 - 6 mm <sup>2</sup>			
	<b>CF 500/DIE SR 6-2</b>	1212692	1
<b>CF 500 die</b> , for uninsulated cable lugs (RC..., FC...) and tubular cable lugs 0,34 - 4 mm <sup>2</sup>			
For tube lugs 0,34 - 2,5 mm <sup>2</sup>	silver <b>CF 500/DIE RCT 4</b>	1212243	1
For standard tubular cable lugs 4 - 10 mm <sup>2</sup> , <b>4 mm<sup>2</sup></b> : outer-Ø 5 mm, inner-Ø 3 mm, <b>6 mm<sup>2</sup></b> : outer-Ø 6,5 mm, inner-Ø 3,5 mm, <b>10 mm<sup>2</sup></b> : outer-Ø 7 mm, inner-Ø 4,5 mm	silver <b>CF 500/DIE RCT 10-1</b>	1212245	1
For tube lugs 4 - 10 mm <sup>2</sup> , <b>4 mm<sup>2</sup></b> : Outside Ø 5 mm, inside Ø 3 mm, <b>6 mm<sup>2</sup></b> : Outside Ø 5,5 mm, inside Ø 3,8 mm, <b>10 mm<sup>2</sup></b> : Outside Ø 6 mm, inside Ø 4,5 mm	silver <b>CF 500/DIE RCT 10-2</b>	1212246	1
For tube lugs 4 - 10 mm <sup>2</sup> , <b>4 mm<sup>2</sup></b> : Outside Ø 5 mm, inside Ø 3 mm, <b>6 mm<sup>2</sup></b> : Outside Ø 6 mm, inside Ø 4 mm, <b>10 mm<sup>2</sup></b> : Outside Ø 8 mm, inside Ø 5 mm	silver <b>CF 500/DIE RCT 10-3</b>	1212256	1
<b>CF 500 die</b> , for assembling FBS ... plug-in bridges			
For FBS ... plug-in bridges	<b>CF 500/DIE FBS</b>	1212461	1

Automatic devices

**CRIMPHANDY, portable hand-held machine, for a 1.0 mm<sup>2</sup> conductor cross section**



The product innovation for switchgear manufacturing – the Crimphandy. You can strip and crimp your conductors in under two seconds using this portable hand-held device – in 75% less time than before.

- The Crimphandy impresses with its easy, effortless handling, which helps protect your joints and tendons
- The compact lightweight is ideal for mobile use in the field. Up to 2000 crimping operations can be performed thanks to the high-performance lithium-ion polymer battery
- Automatic cross section monitoring prevents faulty crimping as a result of incorrect conductor sizes
- The attachable waste receptacle catches the discarded insulation and thereby helps to ensure a clean working environment

**Notes:**  
An application video can be found in the download area for the relevant product on our website at [phoenixcontact.net/products](http://phoenixcontact.net/products).



1.0 mm<sup>2</sup> conductor cross section

Dimensions	
	[mm]
General data	
Weight	[kg]
Conductor	[mm <sup>2</sup> ] / AWG
Working cycle	[s]
Compression	

Technical data		
Width	Length	Height
43	205	70
0.43	- 1 / -	< 2
Square crimp		

Description	
<b>Portable hand-held machine, battery-powered</b> , for ferrules, 1.0 mm <sup>2</sup> , incl. battery and charger, 100 -240 V, in a robust case	
For standard PVC conductors (class 5)	

Ordering data		
Type	Order No.	Pcs. / Pkt.
CF CRIMPHANDY 1,0	1212465	1

<b>Reel ferrules</b> , 1.0 mm <sup>2</sup> , 8 mm, with plastic sleeve, according to DIN 46228-4, 50 pieces per strip, 20 strips per unit pack
Red, according to DIN 46228-4 and NF C 63-023: 1994-02
Yellow, special color, according to DIN 46228-4 and NF C 63-023: 1994-02
<b>Replacement battery</b> , for CF Crimphandy..., Li-ion 7.4 V, 0.68 Ah
<b>Replacement charger</b> , for CF CRIMPHANDY..., 100 - 240 V AC
<b>Receptacle tray</b> for CF-CRIMPHANDY
<b>Replacement service tool</b> , for CF-CRIMPHANDY 1.0

Accessories		
Type	Order No.	Pcs. / Pkt.
AI 1,0-8 RD-S	1212523	1000
AI 1,0-8 YE-S	1212782	1000
CF CRIMPHANDY/ACCU	1212518	1
CF CRIMPHANDY/CHARGER	1212519	1
CF CRIMPHANDY/COVER	1212709	1
CF CRIMPHANDY 1,0/SERVICE-TOOL	1212759	1



## CRIMPHANDY, portable hand-held machine, for a 1.5 mm<sup>2</sup> conductor cross section



The product innovation for switchgear manufacturing – the Crimphandy. You can strip and crimp your conductors in under two seconds using this portable hand-held device – in 75% less time than before.

- Ferrules are automatically fed in, in strip form, via the integrated magazine, enabling multiple conductors to be crimped one after another without interruption
- The sleeves can be reloaded within a matter of seconds. The special sleeves with function end prevent incorrect insertion

The square crimp mold is ideal for the terminal blocks from the CLIPLINE complete system

- UT... screw connection terminal blocks
- ST... spring-cage connection terminal blocks
- PT... push-in connection terminal blocks
- COMBI plug-in connection solutions

### Notes:

An application video can be found in the download area for the relevant product on our website at [phoenixcontact.net/products](http://phoenixcontact.net/products).



1.5 mm<sup>2</sup> conductor cross section

### Dimensions

[mm]

### General data

Weight	[kg]	0.43
Conductor	[mm <sup>2</sup> ] / AWG	- 1.5 / -
Working cycle	[s]	< 2
Compression		Square crimp

### Description

**Portable hand-held machine, battery-powered**, for ferrules, 1.5 mm<sup>2</sup>, incl. battery and charger, 100 - 240 V, in a robust case

For standard PVC conductors (class 5)

**Reel ferrules**, 1.5 mm<sup>2</sup>, 8 mm, with plastic sleeve, according to DIN 46228-4, 50 pieces per strip, 20 strips per unit pack

Black, according to DIN 46228-4 and NF C 63-023: 1994-02

Red, special color, according to DIN 46228-4 and NF C 63-023: 1994-02

**Replacement battery**, for CF Crimphandy..., Li-ion 7.4 V, 0.68 Ah

**Replacement charger**, for CF CRIMPHANDY..., 100 - 240 V AC

**Receptacle tray** for CF-CRIMPHANDY

**Service tool**, for CF-CRIMPHANDY 1,5, for rectifying malfunctions

### Technical data

Width	Length	Height
43	205	70

### Ordering data

Type	Order No.	Pcs. / Pkt.
CF CRIMPHANDY 1,5	1212466	1

### Accessories

Type	Order No.	Pcs. / Pkt.
AI 1,5-8 BK-S	1212524	1000
AI 1,5-8 RD-S	1212781	1000
CF CRIMPHANDY/ACCU	1212518	1
CF CRIMPHANDY/CHARGER	1212519	1
CF CRIMPHANDY/COVER	1212709	1
CF CRIMPHANDY 1,5/SERVICE-TOOL	1212708	1



Automatic devices

Portable automatic stripping and crimping device for taped products



- The compact stripping and crimping machine can be used to process taped ferrules with insulating collars in accordance with DIN 46228-4
- Up to 1000 conductors can be processed an hour
- The conductor is stripped in a single operation and is crimped with a ferrule to a high standard of quality
- Particularly suitable for pre-assembling conductors
- Thanks to its compact and lightweight design, it can also be used as a portable solution for transport between different work locations
- The automatic device can be adapted to various cross sections in under a minute
- Color coding in accordance with ferrule standard DIN 46228-4 makes the assignment of modification components really clear

The suitable taped ferrules support the use of all modular terminal blocks, especially from the **CLIPLINE complete system**:

- UT... screw terminal blocks
- ST spring-cage terminal blocks
- Push-in connection terminal blocks PT
- COMBI plug-in connection solutions

**Notes:**  
An application video can be found in the download area for the relevant product on our website at phoenixcontact.net/products.



Conductor cross sections from 0.25 to 2.5 mm<sup>2</sup>

ERC

Dimensions	
	[mm]
General data	
Weight	[kg]
Application range	
Conductor	[mm <sup>2</sup> ] / AWG
Power consumption	[VA]
Working cycle	[s]
Compression	

Technical data		
Width	Length	Height
165	320	300
12		
0.25 - 2.5 / 24 - 14		
80		
1.2		
trapezoidal		

Description	
<b>Stripping and crimping device, 230 V version, for taped insulated ferrules 0.25 – 2.5 mm<sup>2</sup>, sleeve length 8 mm, incl. conversion kits 0.5 – 2.5 mm<sup>2</sup></b>	
<b>Stripping and crimping device, 120 V version, for taped insulated ferrules 0.25 – 2.5 mm<sup>2</sup>, sleeve length 8 mm, incl. conversion kits 0.5 – 2.5 mm<sup>2</sup></b>	

Ordering data		
Type	Order No.	Pcs. / Pkt.
CF 3000-2,5	1205477	1
CF 3000-2,5 120V	1205516	1

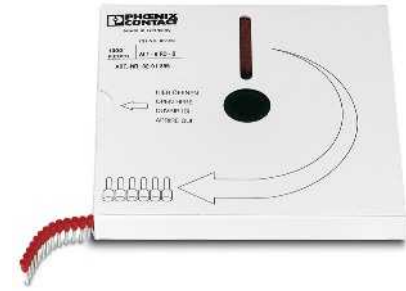
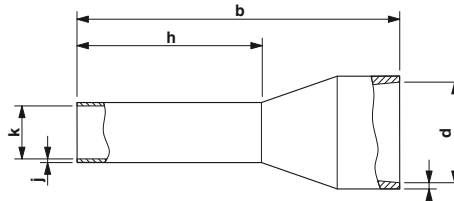
<b>Extension kit, complete, for CF 3000, for taped insulated ferrules, 0.25/0.34 mm<sup>2</sup>, sleeve length 8 mm</b>
<b>Spare locator,</b> 0.25 mm <sup>2</sup> 0.5 mm <sup>2</sup> 0.75 mm <sup>2</sup> 1.0 mm <sup>2</sup> 1.5 mm <sup>2</sup> 2.5 mm <sup>2</sup>
<b>Spare knife, 0.25 mm<sup>2</sup>, adjustable</b> 0.25 mm <sup>2</sup> , adjustable 0.5 mm <sup>2</sup> 0.75 mm <sup>2</sup> 1,0 mm <sup>2</sup> 1,5 mm <sup>2</sup> 2.5 mm <sup>2</sup>

Accessories		
Type	Order No.	Pcs. / Pkt.
CF 3000-TOOLKIT 0,25	1212376	1
CF 3000 LOC 0,25	1212377	1
CF 3000 LOC 0,5	1205639	1
CF 3000 LOC 0,75	1205642	1
CF 3000 LOC 1,0	1205655	1
CF 3000 LOC 1,5	1205668	1
CF 3000 LOC 2,5	1205671	1
CF 3000 AB 0,25	1212380	1
CF 3000 AM 0,5	1205587	1
CF 3000 AM 0,75	1205590	1
CF 3000 AM 1,0	1205600	1
CF 3000 AM 1,5	1205613	1
CF 3000 AM 2,5	1205626	1



**Ferrules with plastic sleeve, taped, for the CF 3000-2,5 crimping machine**

- The taped ferrules have been developed specifically for the CF 3000-2,5 crimping machine
- Available in the main color ranges up to 2.5 mm<sup>2</sup>
- Can be used to wire all terminal blocks, especially those of the CLIPLINE complete system



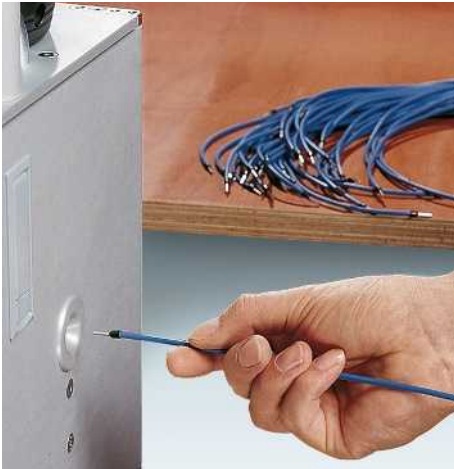
Conductor cross sections from 0.25 to 8 mm<sup>2</sup>



General data				Technical data								Technical data								
Material / coating												E-CU / tin-plated (galvanic)								
Plastic sleeve material												polypropylene								
Long/short-term temperature												105°C / 120°C								
Description				Dimensions [mm]								Ordering data								
		Cross section [mm <sup>2</sup> ] AWG		a		b		d		h		i		j		k		Type	Order No.	Pcs. / Pkt.
<b>Taped ferrule, with plastic sleeve, color range as per DIN 46228-4: 1990-09, CSA-certified</b>																				
		0.25	22	yellow	-	14.00	2.20	8.00	0.25	0.15	0.80							<b>AI 0,25-8 YE-B</b>	<b>3240251</b>	1000
		0.5	20	white	-	14.00	2.50	8.00	0.25	0.15	1.10							<b>AI 0,5 - 8 WH-B</b>	<b>3201369</b>	1000
		0.75	18	gray	-	14.00	2.80	8.00	0.25	0.15	1.30							<b>AI 0,75- 8 GY-B</b>	<b>3201372</b>	1000
		1	18	red	-	14.00	3.00	8.00	0.30	0.15	1.50							<b>AI 1 - 8 RD-B</b>	<b>3201385</b>	1000
		1.5	16	black	-	14.00	3.40	8.00	0.30	0.15	1.80							<b>AI 1,5 - 8 BK-B</b>	<b>3201398</b>	1000
		2.5	14	blue	-	14.00	4.20	8.00	0.30	0.15	2.30							<b>AI 2,5 - 8 BU-B</b>	<b>3201408</b>	500
<b>Taped ferrules, with plastic sleeve, color code as per NFC 63-023: 1994-02, CSA-certified</b>																				
		0.5	20	white	-	14.00	2.50	8.00	0.25	0.15	1.10							<b>AI 0,5 - 8 WH-B</b>	<b>3201369</b>	1000
		0.75	18	blue	-	14.00	2.80	8.00	0.25	0.15	1.30							<b>AI 0,75- 8 BU-B</b>	<b>3201547</b>	1000
		1	18	red	-	14.00	3.00	8.00	0.30	0.15	1.50							<b>AI 1 - 8 RD-B</b>	<b>3201385</b>	1000
		1.5	16	black	-	14.00	3.40	8.00	0.30	0.15	1.80							<b>AI 1,5 - 8 BK-B</b>	<b>3201398</b>	1000
		2.5	14	gray	-	14.00	4.20	8.00	0.30	0.15	2.30							<b>AI 2,5 - 8 GY-B</b>	<b>3201550</b>	500
<b>Taped ferrules, with plastic sleeve, special colors, CSA-certified</b>																				
		0.25	22	blue	-	14.00	2.20	8.00	0.25	0.15	0.80							<b>AI 0,25-8 BU-B</b>	<b>3240250</b>	1000
		0.34	22	turquoise	-	14.00	2.20	8.00	0.25	0.15	0.80							<b>AI 0,34-8 TQ-B</b>	<b>3240249</b>	1000
		0.5	20	orange	-	14.00	2.50	8.00	0.25	0.15	1.10							<b>AI 0,5 - 8 OG-B</b>	<b>3201563</b>	1000
		0.75	18	white	-	14.00	2.80	8.00	0.25	0.15	1.30							<b>AI 0,75- 8 WH-B</b>	<b>3201576</b>	1000
		1	18	yellow	-	14.00	3.00	8.00	0.30	0.15	1.50							<b>AI 1 - 8 YE-B</b>	<b>3201589</b>	1000
		1.5	16	red	-	14.00	3.40	8.00	0.30	0.15	1.80							<b>AI 1,5 - 8 RD-B</b>	<b>3201592</b>	1000

Automatic devices

Stripping and crimping machine for bulk goods



The stripping and crimping device can be used to process loose ferrules from 0.25 to 4 mm<sup>2</sup> with insulating collars according to DIN 46228-4.

The optimized sensor technology has improved the processing of small cross sections.

- The conductor is stripped and crimped with a ferrule to a high standard of quality in a single step, which enables up to 1000 conductors to be processed per hour
- The added counter provides you with an overview of the quantity
- The pull-out forces conform to the requirements of IEC/EN 60999 and IEC/EN 60947
- The press unit can be switched off at the touch of a button so that the CF 1000 can be used as a stripping machine
- A cross section change can be carried out in just a few steps without any need for tools. The sleeve length can be easily set with a screwdriver. Additional settings are not necessary. You can order additional feeder bowls as accessories for an even faster cross section change
- Robust design, suitable for industrial bulk processing
- High reliability thanks to maintenance and wear-free components
- Additional feeder bowls make the cross section change even quicker

**Notes:**  
Accessories and replacement parts for older device versions can be found at phoenixcontact.net/products.



Conductor cross sections from 0.34 to 4 mm<sup>2</sup>

Dimensions	
	[mm]
General data	
Weight	[kg]
Power supply	[V]
Air consumption per compression	[l]
Working cycle	[s]
Compression	

Description
<b>Stripping and crimping device</b> , 100 - 240 V version, electro-pneumatic, for loose ferrules with insulating collar, 0.34 - 4 mm <sup>2</sup> , incl. conversion kits 0.5 - 1.5 mm <sup>2</sup> (sleeve length 6 - 12 mm)

Extension kit, complete, for CF 1000, for loose ferrules with insulating collar, from serial number 160637
0.25/0.34 mm <sup>2</sup> , sleeve length 6 and 8 mm
2.5 mm <sup>2</sup> , sleeve length 6 to 12 mm
4 mm <sup>2</sup> , sleeve length 10 mm
<b>Spare knife</b> , V-form, for CF 1000
0.25 to 2.5 mm <sup>2</sup>
4 mm <sup>2</sup>
<b>Extension components</b> for processing Al...GB sleeves and conductors with thicker insulation. (from device serial number 160637)
Separation plate, for Al...GB, 0.5 to 1.5 mm <sup>2</sup>
Sleeve receiver, for Al...GB 0.5 mm <sup>2</sup> sleeves
for Al...GB 0.75 mm <sup>2</sup> sleeves
for Al...GB 1.0 mm <sup>2</sup> sleeves
for Al...GB 1.5 mm <sup>2</sup> sleeves
<b>Replacement feeder bowl</b> , for CF 1000-1,5
0.25 - 0.34 mm <sup>2</sup> sleeves
0.50 - 1.5 mm <sup>2</sup> sleeves
2.5 and 4.0 mm <sup>2</sup> sleeves

ERC

Technical data		
Width	Length	Height
240	490	390

Ordering data		
Type	Order No.	Pcs. / Pkt.
CF 1000-1,5	1208199	1

Accessories		
Type	Order No.	Pcs. / Pkt.
CF 1000-TOOLKIT 0,34/6-8	1208226	1
CF 1000-TOOLKIT 2,5/6-12	1208242	1
CF 1000-TOOLKIT 4,0/10	1208271	1
CF 1000 EM	1205215	1
CF 1000 EM4,0	1212663	1
CF 1000 VEP1,5 GB	1206901	1
CF 1000 LOC0,5 GB	1212907	1
CF 1000 LOC0,75 GB	1212908	1
CF 1000 LOC1,0 GB	1212909	1
CF 1000 LOC1,5 GB	1212910	1
CF 1000 SORT0,34	1206890	1
CF 1000 SORT1,5	1204326	1
CF 1000 SORT4,0	1206887	1



## Stripping and crimping machine for bulk goods

The CF 1000-10 processes loose ferrules from 4 - 10 mm<sup>2</sup> with plastic collars according to DIN 46228-4

- The conductor is stripped and crimped with a ferrule to a high standard of quality in a single step, which enables up to 1000 conductors to be processed per hour
- The added counter provides you with an overview of the quantity
- The cross section change can be carried out in just a few steps without any need for tools. The sleeve length can be easily set with a screwdriver. Additional settings are not necessary
- The pull-out forces conform to the requirements of IEC/EN 60999 and IEC/EN 60947



Conductor cross section of 4 / 6 / 10 mm<sup>2</sup>

ERIC

Dimensions	
	[mm]
General data	
Weight	[kg]
Power supply	[V]
Air consumption per compression	[l]
Working cycle	[s]
Compression	

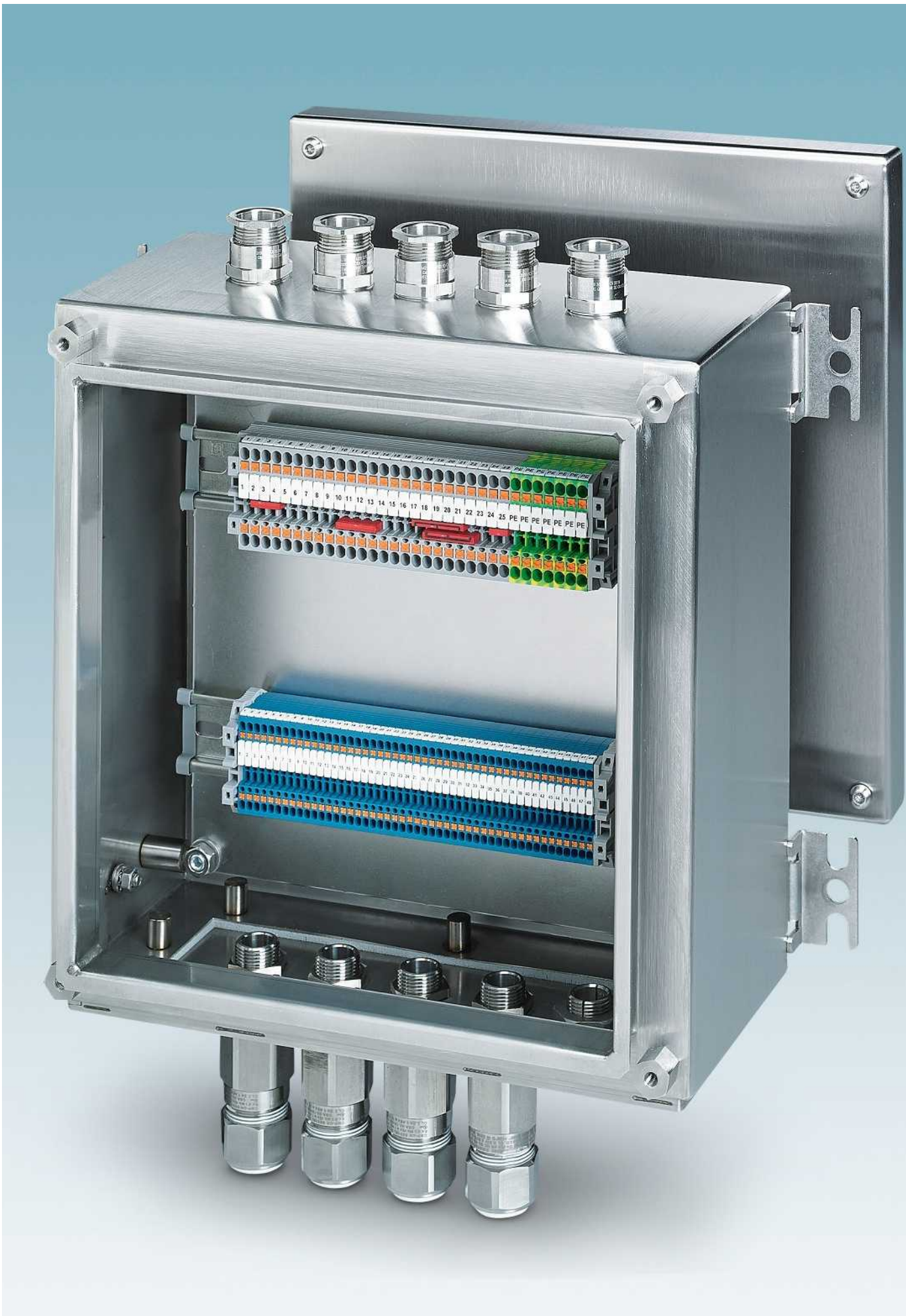
Technical data		
Width	Length	Height
240	490	390
29	100 ... 240 , 50 Hz ... 60 Hz	1.2
		1.5
		trapezoidal

Description
<b>Stripping and crimping device</b> , 100 - 240 V version, electro-pneumatic, for loose ferrules with insulating collar, 4 mm <sup>2</sup> , 6 mm <sup>2</sup> , and 10 mm <sup>2</sup> , without conversion kit

Ordering data		
Type	Order No.	Pcs. / Pkt.
CF 1000-10	1212456	1

<b>Conversion kit</b> , complete, for CF 1000-10, for loose ferrules with insulating collar
4 mm <sup>2</sup> , sleeve length 10 - 12 mm
6 mm <sup>2</sup> , sleeve length 12 mm
10 mm <sup>2</sup> , sleeve length 12 mm
<b>Replacement knife</b> , V-form, for CF 1000-10
4 mm <sup>2</sup>
6 mm <sup>2</sup>
10 mm <sup>2</sup>

Accessories		
Type	Order No.	Pcs. / Pkt.
CF 1000-10-TOOLKIT 4/10-12	1212458	1
CF 1000-10-TOOLKIT 6/12	1212459	1
CF 1000-10-TOOLKIT 10/12	1212460	1
CF 1000 EM4,0	1212663	1
CF 1000-10 EM6,0	1212664	1
CF 1000-10 EM10	1212665	1



# Installation and mounting material - CABINET add-on

The CABINET add-on range includes terminal boxes as well as mounting material and assembly equipment.

The robust CLIPSAFE stainless steel Ex terminal boxes and empty housings provide all-round protection for your application in industrial environments as well as in process technology. The housing range includes standardized housings with dimensions of up to 1000 x 1000 x 300 mm. We can also adjust these to suit your requirements while adhering to Ex standards according to ATEX and IECEx. Supplied pre-equipped with terminal blocks and cable glands for use in potentially explosive areas with corresponding device approval.

**i Your web code: #0140**

The installation of switchgear and control cabinets need not be time- and space-consuming if suitable mounting devices are used. We offer a comprehensive range of products for this.

DIN rails and end brackets, for example, ensure the secure attachment of electrical connecting elements and components inside the control cabinet.

Additional security is assured by cover profiles, while shield connection clamps enable EMC-compliant wiring.

The cable management product range includes an extensive range of cable protection systems and cable ducts, as well as cable binders for every application.

## Product range overview

**CLIPSAFE stainless steel Ex terminal boxes and empty housings** 484

CLIPSAFE ABS terminal boxes 496

Ex cable glands 500

---

## Component mounting

NS 15, NS 35, and NS 32 DIN rails 508

End brackets for DIN rails 520

Marking for terminal strips 522

Brackets for mounting on DIN rails 524

Adapter and support bracket 525

---

## Busbars

Neutral busbar 530

Power and branch terminal blocks 531

Connection terminal blocks for busbars 532

---

## Connection terminal blocks and sockets

Europe connectors 534

Junction box connectors 538

Sockets 540

---

## Shielding

Shield connection clamps 542

Supports 544

---

## Cable management

**Cable routing** 552

Cable ducts 553

Scissors and cutters 556

Cable clamps for DIN rail 557

---

## Cable protection

Protective hoses and screw connections 558

Accessories 576

---

## Cable bundling

Cable binders 582



### Empty Ex housing

Choose the right stainless steel housing for your application from 140 Ex-approved versions. Custom dimensions and surface treatments are available on request.



### Empty Ex housing processed according to customer specifications

We can customize the housings according to your specifications with threads, bore holes, and rectangular cutouts, taking Ex standards according ATEX and IECEx into consideration.



### Ex terminal boxes

Terminal boxes are supplied ready equipped with terminal blocks and cable glands with corresponding ATEX and IECEx device approval. Individual control boxes with electronic components are available on request.



### Comprehensive product range

The housings are available as door or cover versions in nine different depths and sizes up to 1000 mm x 1000 mm x 300 mm. The robust housings made from up to 2 mm thick high-grade 1.4404 (V4A), AISI 316L stainless steel are ideal for use under extreme conditions.



### Flexible door stop

The door stop can be easily changed according to your individual requirements or the installation situation. The 135° opening angle of the door guarantees comfortable work during maintenance and servicing. The special door and cover seal guarantees a reliable seal even after it has been opened multiple times.



### Flexible wall fastening

The mounting brackets that are supplied as standard can be flexibly adapted to the installation situation. Welded-on mounting brackets are available on request.



### Individual flange plate fixing

The terminal boxes and empty housings can be equipped with flange plates on up to four sides. The flange plates are equipped with a patented protective sealing frame and with captive mounting screws.



### Safe outdoor use

The housings satisfy all the requirements of IP66 protection according to EN 60529, NEMA 4X, and NEMA 250 and are designed for safe use outdoors in the temperature range from -55°C to 135°C. A drainage channel reliably prevents the ingress of moisture and dirt when opened.



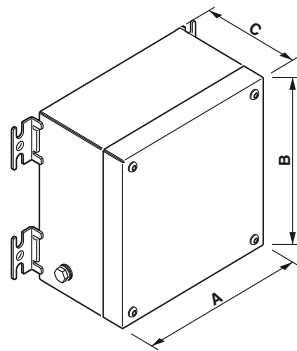
### Ex cable glands

A comprehensive range of Ex cable glands made from stainless steel or nickel-plated brass is available to safely feed through standard, reinforced, and shielded cables. IP66, IP67, and IP68 protection provides maximum safety.

**i** Your web code: #0140

### Empty housing, depth of 80 - 120 mm

- Defined stops and the special seal support ensure optimum seal compression and therefore satisfy the stringent requirements for housing leak-tightness
- From a depth (C) of 160 mm, up to four housing sides can be fitted with flange plates on request
- The stainless steel marking label supplied as standard is fitted on the outside away from the seal area in the bore holes provided
- The patented protective seal frame protects the flange plate seal against external influences
- Additional ground bolts are attached to the door and housing for easy door stop replacement
- The housing design features a large assembly opening for easy access to the terminal boxes. The flat seal edge prevents injury during installation, servicing or maintenance work



new



Depth of 80 mm and 100 mm, housing with cover screwed in place, without flange, without mounting plate

### Terminal box marking

An extensive range of marking materials is available for the durable and unique marking of terminal boxes; see "Device marking" section

### Marking

Baseefa 14 ATEX 0393U

IECEX BAS 14.0179U

Ex II 2 G Ex e IIC Gb

Ex II 2 D Ex tb IIIC Db

-55°C ≤ Ta ≤ +135°C Type IP66

Notes:
Detailed installation and assembly instructions for use in Ex areas: see installation instructions and the download area for the item at <a href="http://www.phoenixcontact.net/products">www.phoenixcontact.net/products</a> .
Torque values for all mounting screws are documented in the installation instructions supplied as standard and in the product area of the website at <a href="http://www.phoenixcontact.net/products">www.phoenixcontact.net/products</a> .
In the case of sides with a length of ≥ 600 mm, the material thickness increases to 2 mm.
1) Matching stainless steel labels: EMP-V4A Lid-S - 0839005 and EMP-V4A Lid-S CUS - 0839006.

Material	
Sealing material	
Degree of protection	
Impact strength	[J]
Surface characteristics	
Temperature resistance	[°C]
Type of locking	
Housing fixing	
Material strength	[mm]

Technical data	
Material	Stainless steel, 316L/1.4404
Sealing material	Silicon
Degree of protection	IP66
Impact strength	7
Surface characteristics	brushed, 240 grain
Temperature resistance	-55 ... 135
Type of locking	Screw-on cover, Allen screws
Housing fixing	External fixing clips
Material strength	1.5

Description	Dimension A x B x C [mm]
Terminal box, without mounting plate	100 x 100 x 80
	150 x 100 x 80
	200 x 100 x 80
	120 x 120 x 100
Terminal box, with mounting plate	150 x 150 x 80
	200 x 150 x 80
	300 x 150 x 80
	400 x 150 x 80
	200 x 200 x 80
	300 x 200 x 80
	150 x 150 x 100
	200 x 200 x 120
	300 x 200 x 120
	400 x 200 x 120
	600 x 200 x 120
	200 x 300 x 120
300 x 300 x 120	

Ordering data		
Type	Order No.	Pcs. / Pkt.
E S6 A 100X100X80	0899000	1
E S6 A 150X100X80	0899001	1
E S6 A 200X100X80	0899002	1
E S6 A 120X120X100	0899009	1

<b>Mounting plate</b> , sheet steel, galvanized	
Dimensions: 150 x 150 x 2 mm	
Dimensions: 200 x 150 x 2 mm	
Dimensions: 300 x 150 x 2 mm	
Dimensions: 400 x 150 x 2 mm	
Dimensions: 200 x 200 x 2 mm	
Dimensions: 300 x 200 x 2 mm, can also be used for 200 x 300 mm	
Dimensions: 400 x 200 x 2 mm	
Dimensions: 600 x 200 x 2 mm	
Dimensions: 300 x 300 x 2 mm	
<b>Torque screwdrivers</b> , adjustable from 3 - 6 Nm	black
<b>Screw bit</b> , hexagonal, E6.3-1/4" drive, hardened, suitable for holder according to DIN 3126-F 6.3/ISO 1173, size: hex 3 x 50 mm	silver
Size: hex 4 x 50 mm	silver
<b>Stainless steel label</b> , unmarked, 70 x 50 x 1 mm	

Accessories		
Type	Order No.	Pcs. / Pkt.
<b>TSD-M 6NM</b>	1212226	1
<b>SF-BIT-HEX 3-50</b>	1212647	5
<b>SF-BIT-HEX 4-50</b>	1212648	5
<b>EMP-V4A CS LID-S</b>	0839005	10

new



Depth of 80 mm,  
housing with cover screwed in place,  
without flange, with mounting plate

new



Depth of 100 mm,  
housing with cover screwed in place,  
without flange, with mounting plate

new



Depth of 120 mm,  
housing with cover screwed in place,  
without flange, with mounting plate

Technical data
Stainless steel, 316L/1.4404
Silicon
IP66
7
brushed , 240 grain
-55 ... 135
Screw-on cover, Allen screws
External fixing clips
1.5

Technical data
Stainless steel, 316L/1.4404
Silicon
IP66
7
brushed , 240 grain
-55 ... 135
Screw-on cover, Allen screws
External fixing clips
1.5

Technical data
Stainless steel, 316L/1.4404
Silicon
IP66
7
brushed , 240 grain
-55 ... 135
Screw-on cover, Allen screws
External fixing clips
1.5

Ordering data		
Type	Order No.	Pcs. / Pkt.
E S6 A 150X150X80 <sup>1)</sup>	0899003	1
E S6 A 200X150X80 <sup>1)</sup>	0899004	1
E S6 A 300X150X80 <sup>1)</sup>	0899005	1
E S6 A 400X150X80 <sup>1)</sup>	0899006	1
E S6 A 200X200X80	0899007	1
E S6 A 300X200X80	0899008	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
E S6 A 150X150X100	0899010	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
E S6 A 200X200X120	0899011	1
E S6 A 300X200X120	0899012	1
E S6 A 400X200X120	0899013	1
E S6 A 600X200X120	0899014	1
E S6 A 200X300X120	0899015	1
E S6 A 300X300X120	0899016	1

Accessories		
AE MP SH 150X150	0161962	1
AE MP SH 200X150	0161963	1
AE MP SH 300X150	0161964	1
AE MP SH 400X150	0161965	1
AE MP SH 200X200	0161966	1
AE MP SH 300X200	0161967	1
TSD-M 6NM	1212226	1
SF-BIT-HEX 3-50	1212647	5
SF-BIT-HEX 4-50	1212648	5
EMP-V4A CS LID	0839003	10

Accessories		
AE MP SH 150X150	0161962	1
TSD-M 6NM	1212226	1
SF-BIT-HEX 3-50	1212647	5
SF-BIT-HEX 4-50	1212648	5
EMP-V4A CS LID	0839003	10

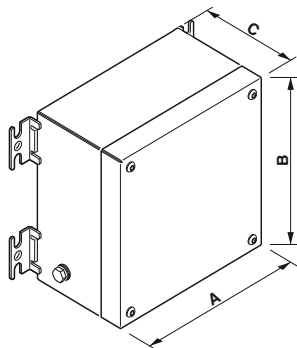
Accessories		
AE MP SH 200X200	0161966	1
AE MP SH 300X200	0161967	1
AE MP SH 400X200	0161968	1
AE MP SH 600X200	0161969	1
AE MP SH 300X300	0161970	1
TSD-M 6NM	1212226	1
SF-BIT-HEX 3-50	1212647	5
SF-BIT-HEX 4-50	1212648	5
EMP-V4A CS LID	0839003	10

# Installation and mounting material - CABINET add-on

## CLIPSAFE stainless steel Ex terminal boxes and empty housings

### Empty housing, depth of 160 mm

- Defined stops and the special seal support ensure optimum seal compression and therefore satisfy the stringent requirements for housing leak-tightness
- From a depth (C) of 160 mm, up to four housing sides can be fitted with flange plates on request
- The stainless steel marking label supplied as standard is fitted on the outside away from the seal area in the bore holes provided
- The patented protective seal frame protects the flange plate seal against external influences
- Additional ground bolts are attached to the door and housing for easy door stop replacement
- The housing design features a large assembly opening for easy access to the terminal boxes. The flat seal edge prevents injury during installation, servicing or maintenance work



new

Depth of 160 mm, housing with cover screwed in place, without flange, with mounting plate

### Terminal box marking

An extensive range of marking materials is available for the durable and unique marking of terminal boxes; see "Device marking" section

### Marking

Baseefa 14 ATEX 0393U

IECEX BAS 14.0179U

Ex II 2 G Ex e IIC Gb

Ex II 2 D Ex tb IIIC Db

-55°C ≤ Ta ≤ +135°C Type IP66

Notes:
Detailed installation and assembly instructions for use in Ex areas: see installation instructions and the download area for the item at <a href="http://www.phoenixcontact.net/products">www.phoenixcontact.net/products</a> .
Torque values for all mounting screws are documented in the installation instructions supplied as standard and in the product area of the website at <a href="http://www.phoenixcontact.net/products">www.phoenixcontact.net/products</a> .
In the case of sides with a length of ≥ 600 mm, the material thickness increases to 2 mm.

Material	
Sealing material	
Degree of protection	
Impact strength	[J]
Surface characteristics	
Temperature resistance	[°C]
Type of locking	
Housing fixing	
Material strength	[mm]

Technical data	
Material	Stainless steel, 316L/1.4404
Sealing material	Silicon
Degree of protection	IP66
Impact strength	7
Surface characteristics	brushed, 240 grain
Temperature resistance	-55 ... 135
Type of locking	Screw-on cover, Allen screws
Housing fixing	External fixing clips
Material strength	1,5

Description	Dimension A x B x C [mm]
Terminal box	200 x 200 x 160
	260 x 260 x 160
	400 x 260 x 160
	200 x 300 x 160
	300 x 300 x 160
	400 x 300 x 160
	260 x 380 x 160
	380 x 380 x 160
	500 x 400 x 160
	382 x 458 x 160
	480 x 480 x 160
	300 x 500 x 160
	400 x 500 x 160
	350 x 500 x 160
	450 x 620 x 160

Ordering data		
Type	Order No.	Pcs. / Pkt.
E S6 A 200X200X160	0899017	1
E S6 A 260X260X160	0899019	1
E S6 A 400X260X160	0899021	1
E S6 A 200X300X160	0899023	1
E S6 A 300X300X160	0899025	1
E S6 A 400X300X160	0899027	1
E S6 A 260X380X160	0899029	1
E S6 A 380X380X160	0899031	1
E S6 A 500X400X160	0899033	1
E S6 A 382X458X160	0899035	1
E S6 A 480X480X160	0899037	1
E S6 A 300X500X160	0899039	1
E S6 A 400X500X160	0899041	1
E S6 A 350X500X160	0899043	1
E S6 A 450X620X160	0899045	1

<b>Mounting plate</b> , sheet steel, galvanized	
Dimensions: 200 x 200 x 2 mm	
Dimensions: 260 x 260 x 2 mm	
Dimensions: 400 x 260 x 2 mm	
Dimensions: 300 x 200 x 2 mm, can also be used for 200 x 300 mm	
Dimensions: 300 x 300 x 2 mm	
Dimensions: 400 x 300 x 2 mm	
Dimensions: 260 x 380 x 2 mm	
Dimensions: 380 x 380 x 2 mm	
Dimensions: 500 x 400 x 2 mm	
Dimensions: 382 x 458 x 2 mm	
Dimensions: 480 x 480 x 2 mm	
Dimensions: 300 x 500 x 2 mm	
Dimensions: 350 x 500 x 2 mm	
Dimensions: 450 x 620 x 2 mm	
<b>Torque screwdrivers</b> , adjustable from 3 - 6 Nm	black
<b>Screw bit</b> , hexagonal, E6.3-1/4" drive, hardened, suitable for holder according to DIN 3126-F 6.3/ISO 1173, size: hex 3 x 50 mm	silver
Size: hex 4 x 50 mm	silver
<b>Stainless steel label</b> , unmarked, 70 x 50 x 1 mm	

Accessories		
Type	Order No.	Pcs. / Pkt.
AE MP SH 200X200	0161966	1
AE MP SH 260X260	0161987	1
AE MP SH 400X260	0162001	1
AE MP SH 300X200	0161967	1
AE MP SH 300X300	0161970	1
AE MP SH 400X300	0161971	1
AE MP SH 260X380	0161972	1
AE MP SH 380X380	0161973	1
AE MP SH 500X400	0161974	1
AE MP SH 382X458	0161975	1
AE MP SH 480X480	0161976	1
AE MP SH 300X500	0161981	1
AE MP SH 350X500	0161982	1
AE MP SH 450X620	0161983	1
<b>TSD-M 6NM</b>	1212226	1
<b>SF-BIT-HEX 3-50</b>	1212647	5
<b>SF-BIT-HEX 4-50</b>	1212648	5
<b>EMP-V4A CS LID</b>	0839003	10



new



Depth of 160 mm, housing with cover screwed in place, with flange plates on the bottom, with mounting plate

new



Depth of 160 mm, cabinet with hinged door, without flange, with mounting plate

new



Depth of 160 mm, cabinet with hinged door, with flange plates on the bottom, with mounting plate

### Technical data

Stainless steel, 316L/1.4404  
Silicon  
IP66  
7  
brushed, 240 grain  
-55 ... 135  
Screw-on cover, Allen screws

External fixing clips  
1.5

### Technical data

Stainless steel, 316L/1.4404  
Silicon  
IP66  
7  
brushed, 240 grain  
-55 ... 135  
Door with hinge, Quarter turn locking with two-way key bit

External fixing clips  
1.5

### Technical data

Stainless steel, 316L/1.4404  
Silicon  
IP66  
7  
brushed, 240 grain  
-55 ... 135  
Door with hinge, Quarter turn locking with two-way key bit

External fixing clips  
1.5

### Ordering data

Type	Order No.	Pcs. / Pkt.
E1 S6 A 200X200X160	0899018	1
E1 S6 A 260X260X160	0899020	1
E1 S6 A 400X260X160	0899022	1
E1 S6 A 200X300X160	0899024	1
E1 S6 A 300X300X160	0899026	1
E1 S6 A 400X300X160	0899028	1
E1 S6 A 260X380X160	0899030	1
E1 S6 A 380X380X160	0899032	1
E1 S6 A 500X400X160	0899034	1
E1 S6 A 382X458X160	0899036	1
E1 S6 A 480X480X160	0899038	1
E1 S6 A 300X500X160	0899040	1
E1 S6 A 400X500X160	0899042	1
E1 S6 A 350X500X160	0899044	1
E1 S6 A 450X620X160	0899046	1

### Ordering data

Type	Order No.	Pcs. / Pkt.
C S6 A 200X200X160	0899047	1
C S6 A 260X260X160	0899049	1
C S6 A 400X260X160	0899051	1
C S6 A 200X300X160	0899053	1
C S6 A 300X300X160	0899055	1
C S6 A 400X300X160	0899057	1
C S6 A 260X380X160	0899059	1
C S6 A 380X380X160	0899061	1
C S6 A 500X400X160	0899063	1
C S6 A 382X458X160	0899065	1
C S6 A 480X480X160	0899067	1
C S6 A 300X500X160	0899069	1
C S6 A 400X500X160	0899071	1
C S6 A 350X500X160	0899073	1
C S6 A 450X620X160	0899075	1

### Ordering data

Type	Order No.	Pcs. / Pkt.
C1 S6 A 200X200X160	0899048	1
C1 S6 A 260X260X160	0899050	1
C1 S6 A 400X260X160	0899052	1
C1 S6 A 200X300X160	0899054	1
C1 S6 A 300X300X160	0899056	1
C1 S6 A 400X300X160	0899058	1
C1 S6 A 260X380X160	0899060	1
C1 S6 A 380X380X160	0899062	1
C1 S6 A 500X400X160	0899064	1
C1 S6 A 382X458X160	0899066	1
C1 S6 A 480X480X160	0899068	1
C1 S6 A 300X500X160	0899070	1
C1 S6 A 400X500X160	0899072	1
C1 S6 A 350X500X160	0899074	1
C1 S6 A 450X620X160	0899076	1

### Accessories

AE MP SH 200X200	0161966	1
AE MP SH 260X260	0161987	1
AE MP SH 450X620	0161983	1
AE MP SH 300X200	0161967	1
AE MP SH 300X300	0161970	1
AE MP SH 400X300	0161971	1
AE MP SH 260X380	0161972	1
AE MP SH 380X380	0161973	1
AE MP SH 500X400	0161974	1
AE MP SH 382X458	0161975	1
AE MP SH 480X480	0161976	1
AE MP SH 300X500	0161981	1
AE MP SH 350X500	0161982	1
AE MP SH 450X620	0161983	1
TSD-M 6NM	1212226	1
SF-BIT-HEX 3-50	1212647	5
SF-BIT-HEX 4-50	1212648	5
EMP-V4A CS LID	0839003	10

### Accessories

AE MP SH 200X200	0161966	1
AE MP SH 260X260	0161987	1
AE MP SH 450X620	0161983	1
AE MP SH 300X200	0161967	1
AE MP SH 300X300	0161970	1
AE MP SH 400X300	0161971	1
AE MP SH 260X380	0161972	1
AE MP SH 380X380	0161973	1
AE MP SH 500X400	0161974	1
AE MP SH 382X458	0161975	1
AE MP SH 480X480	0161976	1
AE MP SH 300X500	0161981	1
AE MP SH 350X500	0161982	1
AE MP SH 450X620	0161983	1
TSD-M 6NM	1212226	1
SF-BIT-HEX 3-50	1212647	5
SF-BIT-HEX 4-50	1212648	5
EMP-V4A CS DOOR	0839001	10

### Accessories

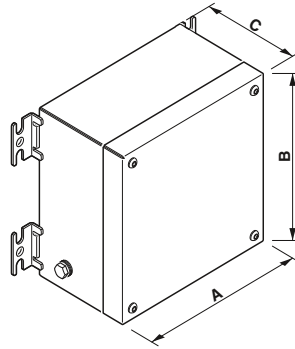
AE MP SH 200X200	0161966	1
AE MP SH 260X260	0161987	1
AE MP SH 450X620	0161983	1
AE MP SH 300X200	0161967	1
AE MP SH 300X300	0161970	1
AE MP SH 400X300	0161971	1
AE MP SH 260X380	0161972	1
AE MP SH 380X380	0161973	1
AE MP SH 500X400	0161974	1
AE MP SH 382X458	0161975	1
AE MP SH 480X480	0161976	1
AE MP SH 300X500	0161981	1
AE MP SH 350X500	0161982	1
AE MP SH 450X620	0161983	1
TSD-M 6NM	1212226	1
SF-BIT-HEX 3-50	1212647	5
SF-BIT-HEX 4-50	1212648	5
EMP-V4A CS DOOR	0839001	10

# Installation and mounting material - CABINET add-on

## CLIPSAFE stainless steel Ex terminal boxes and empty housings

### Terminal boxes, depth of 200 mm

- Defined stops and the special seal support ensure optimum seal compression and therefore satisfy the stringent requirements for housing leak-tightness
- From a depth (C) of 160 mm, up to four housing sides can be fitted with flange plates on request
- The stainless steel marking label supplied as standard is fitted on the outside away from the seal area in the bore holes provided
- The patented protective seal frame protects the flange plate seal against external influences
- Additional ground bolts are attached to the door and housing for easy door stop replacement
- The housing design features a large assembly opening for easy access to the terminal boxes. The flat seal edge prevents injury during installation, servicing or maintenance work



Depth of 200 mm, housing with cover screwed in place, without flange plates, with mounting plate

### Terminal box marking

An extensive range of marking materials is available for the durable and unique marking of terminal boxes; see "Device marking" section

### Marking

Baseefa 14 ATEX 0393U

IECEx BAS 14.0179U

⊕ II 2 G Ex e IIC Gb

⊕ II 2 D Ex tb IIIC Db

-55°C ≤ Ta ≤ +135°C Type IP66

Notes:
Detailed installation and assembly instructions for use in Ex areas: see installation instructions and the download area for the item at <a href="http://www.phoenixcontact.net/products">www.phoenixcontact.net/products</a> .
Torque values for all mounting screws are documented in the installation instructions supplied as standard and in the product area of the website at <a href="http://www.phoenixcontact.net/products">www.phoenixcontact.net/products</a> .
In the case of sides with a length of ≥ 600 mm, the material thickness increases to 2 mm.

Material	
Sealing material	
Degree of protection	
Impact strength	[J]
Surface characteristics	brushed, 240 grain
Temperature resistance	[°C]
Type of locking	
Housing fixing	External fixing clips
Material strength	[mm]

Technical data	
Material	Stainless steel, 316L/1.4404
Sealing material	Silicon
Degree of protection	IP66
Impact strength	7
Surface characteristics	brushed, 240 grain
Temperature resistance	-55 ... 135
Type of locking	Screw-on cover, Allen screws
Housing fixing	External fixing clips
Material strength	1,5

Description	Dimension A x B x C [mm]
Terminal box, with cover screwed in place	260 x 300 x 200
	300 x 300 x 200
	300 x 400 x 200
	400 x 400 x 200
Control box, with door and twist lock	260 x 300 x 200
	600 x 400 x 200

Ordering data		
Type	Order No.	Pcs. / Pkt.
E S6 A 260X300X200	0899077	1
E S6 A 300X300X200	0899078	1
E S6 A 300X400X200	0899079	1
E S6 A 400X400X200	0899080	1

<b>Mounting plate</b> , sheet steel, galvanized	
Dimensions: 260 x 300 x 2 mm	
Dimensions: 300 x 300 x 2 mm	
Dimensions: 400 x 300 x 2 mm	
Dimensions: 400 x 400 x 2 mm	
Dimensions: 600 x 400 x 2 mm	
<b>Torque screwdrivers</b> , adjustable from 3 - 6 Nm	black
<b>Screw bit</b> , hexagonal, E6.3-1/4" drive, hardened, suitable for holder according to DIN 3126-F 6.3/ISO 1173, size: hex 3 x 50 mm	silver
Size: hex 4 x 50 mm	silver
<b>Stainless steel label</b> , unmarked, 70 x 50 x 1 mm	

Accessories		
Type	Order No.	Pcs. / Pkt.
AE MP SH 260X300	0161984	1
AE MP SH 300X300	0161970	1
AE MP SH 400X300	0161971	1
AE MP SH 400X400	0161985	1
TSD-M 6NM	1212226	1
SF-BIT-HEX 3-50	1212647	5
SF-BIT-HEX 4-50	1212648	5
EMP-V4A CS LID	0839003	10

new



Depth of 200 mm, cabinet with hinged door, without flange plates, with mounting plate

#### Technical data

Stainless steel, 316L/1.4404

Silicon

IP66

7

brushed, 240 grain

-55 ... 135

Door with hinge, Quarter turn locking with two-way key bit

External fixing clips

1.5

#### Ordering data

Type	Order No.	Pcs. / Pkt.
C S6 A 260X300X200	0899081	1
C S6 A 300X300X200	0899082	1
C S6 A 600X400X200	0899083	1

#### Accessories

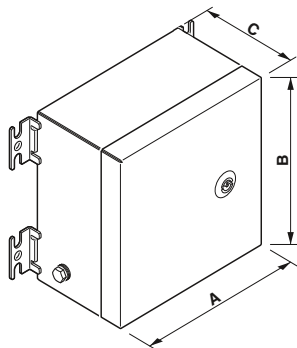
AE MP SH 260X300	0161984	1
AE MP SH 300X300	0161970	1
AE MP SH 600X400	0161986	1
TSD-M 6NM	1212226	1
SF-BIT-HEX 3-50	1212647	5
SF-BIT-HEX 4-50	1212648	5
EMP-V4A CS DOOR	0839001	10

# Installation and mounting material - CABINET add-on

## CLIPSAFE stainless steel Ex terminal boxes and empty housings

### Empty housing, depth of 210 mm

- Defined stops and the special seal support ensure optimum seal compression and therefore satisfy the stringent requirements for housing leak-tightness
- From a depth (C) of 160 mm, up to four housing sides can be fitted with flange plates on request
- The stainless steel marking label supplied as standard is fitted on the outside away from the seal area in the bore holes provided
- The patented protective seal frame protects the flange plate seal against external influences
- Additional ground bolts are attached to the door and housing for easy door stop replacement
- The housing design features a large assembly opening for easy access to the terminal boxes. The flat seal edge prevents injury during installation, servicing or maintenance work



new

Depth of 210 mm, cabinet with hinged door, without flange plates, with mounting plate

### Terminal box marking

An extensive range of marking materials is available for the durable and unique marking of terminal boxes; see "Device marking" section

### Marking

Baseefa 14 ATEX 0393U

IECEX BAS 14.0179U

Ex II 2 G Ex e IIC Gb

Ex II 2 D Ex tb IIIC Db

-55°C ≤ Ta ≤ +135°C Type IP66

#### Notes:

Detailed installation and assembly instructions for use in Ex areas: see installation instructions and the download area for the item at [www.phoenixcontact.net/products](http://www.phoenixcontact.net/products).

Torque values for all mounting screws are documented in the installation instructions supplied as standard and in the product area of the website at [www.phoenixcontact.net/products](http://www.phoenixcontact.net/products).

In the case of sides with a length of ≥ 600 mm, the material thickness increases to 2 mm.

Material	
Sealing material	
Degree of protection	
Impact strength	[J]
Surface characteristics	
Temperature resistance	[°C]
Type of locking	
Housing fixing	
Material strength	[mm]

Technical data	
Material	Stainless steel, 316L/1.4404
Sealing material	Silicon
Degree of protection	IP66
Impact strength	7
Surface characteristics	brushed, 240 grain
Temperature resistance	-55 ... 135
Type of locking	Door with hinge, Quarter turn locking with two-way key bit
Housing fixing	External fixing clips
Material strength	1,5

Description	Dimension A x B x C [mm]
Terminal box, with door and twist lock	260 x 260 x 210
	300 x 300 x 210
	260 x 380 x 210
	600 x 400 x 210
	382 x 458 x 210
	480 x 480 x 210
	350 x 500 x 210
	600 x 600 x 210
	450 x 620 x 210
	550 x 740 x 210
	508 x 762 x 210
	640 x 860 x 210
	610 x 914 x 210
	740 x 980 x 210

Ordering data		
Type	Order No.	Pcs. / Pkt.
C S6 A 260X260X210	0899084	1
C S6 A 300X300X210	0899087	1
C S6 A 260X380X210	0899090	1
C S6 A 600X400X210	0899093	1
C S6 A 382X458X210	0899096	1
C S6 A 480X480X210	0899099	1
C S6 A 350X500X210	0899102	1
C S6 A 600X600X210	0899105	1
C S6 A 450X620X210	0899108	1
C S6 A 550X740X210	0899111	1
C S6 A 508X762X210	0899114	1
C S6 A 640X860X210	0899117	1
C S6 A 610X914X210	0899120	1
C S6 A 740X980X210	0899123	1

Mounting plate, sheet steel, galvanized	
Dimensions: 260 x 260 x 2 mm	
Dimensions: 300 x 300 x 2 mm	
Dimensions: 260 x 380 x 2 mm	
Dimensions: 600 x 400 x 2 mm	
Dimensions: 382 x 458 x 2 mm	
Dimensions: 480 x 480 x 2 mm	
Dimensions: 350 x 500 x 2 mm	
Dimensions: 600 x 600 x 2 mm	
Dimensions: 450 x 620 x 2 mm	
Dimensions: 550 x 740 x 2 mm	
Dimensions: 508 x 762 x 2 mm	
Dimensions: 640 x 860 x 2 mm	
Dimensions: 610 x 914 x 2 mm	
Dimensions: 740 x 980 x 2 mm	
Torque screwdrivers, adjustable from 3 - 6 Nm	black
Screw bit, hexagonal, E6.3-1/4" drive, hardened, suitable for holder according to DIN 3126-F 6.3/ISO 1173, size: hex 3 x 50 mm	silver
Size: hex 4 x 50 mm	silver
Stainless steel label, unmarked, 70 x 50 x 1 mm	

Accessories		
Type	Order No.	Pcs. / Pkt.
AE MP SH 260X260	0161987	1
AE MP SH 300X300	0161970	1
AE MP SH 260X380	0161972	1
AE MP SH 600X400	0161986	1
AE MP SH 382X458	0161975	1
AE MP SH 480X480	0161976	1
AE MP SH 350X500	0161982	1
AE MP SH 600X600	0161988	1
AE MP SH 450X620	0161983	1
AE MP SH 550X740	0161989	1
AE MP SH 508X762	0161990	1
AE MP SH 640X860	0161991	1
AE MP SH 610X914	0161992	1
AE MP SH 740X980	0161993	1
TSD-M 6NM	1212226	1
SF-BIT-HEX 3-50	1212647	5
SF-BIT-HEX 4-50	1212648	5
EMP-V4A CS DOOR	0839001	10



new



new

Depth of 210 mm, cabinet with hinged door, with flange plates on the bottom, with mounting plate

Depth of 210 mm, cabinet with hinged door, with flange plates on the bottom, left, and right, with mounting plate

### Technical data

Stainless steel, 316L/1.4404  
Silicon  
IP66  
7  
brushed , 240 grain  
-55 ... 135  
Door with hinge, Quarter turn locking with two-way key bit

External fixing clips  
1.5

### Technical data

Stainless steel, 316L/1.4404  
Silicon  
IP66  
7  
brushed , 240 grain  
-55 ... 135  
Door with hinge, Quarter turn locking with two-way key bit

External fixing clips  
1.5

### Ordering data

Type	Order No.	Pcs. / Pkt.
C1 S6 A 260X260X210	0899085	1
C1 S6 A 300X300X210	0899088	1
C1 S6 A 260X380X210	0899091	1
C1 S6 A 600X400X210	0899094	1
C1 S6 A 382X458X210	0899097	1
C1 S6 A 480X480X210	0899100	1
C1 S6 A 350X500X210	0899103	1
C1 S6 A 600X600X210	0899106	1
C1 S6 A 450X620X210	0899109	1
C1 S6 A 550X740X210	0899112	1
C1 S6 A 508X762X210	0899115	1
C1 S6 A 640X860X210	0899118	1
C1 S6 A 610X914X210	0899121	1
C1 S6 A 740X980X210	0899124	1

### Ordering data

Type	Order No.	Pcs. / Pkt.
C3 S6 A 260X260X210	0899086	1
C3 S6 A 300X300X210	0899089	1
C3 S6 A 260X380X210	0899092	1
C3 S6 A 600X400X210	0899095	1
C3 S6 A 382X458X210	0899098	1
C3 S6 A 480X480X210	0899101	1
C3 S6 A 350X500X210	0899104	1
C3 S6 A 600X600X210	0899107	1
C3 S6 A 450X620X210	0899110	1
C3 S6 A 550X740X210	0899113	1
C3 S6 A 508X762X210	0899116	1
C3 S6 A 640X860X210	0899119	1
C3 S6 A 610X914X210	0899122	1
C3 S6 A 740X980X210	0899125	1

### Accessories

AE MP SH 260X260	0161987	1
AE MP SH 300X300	0161970	1
AE MP SH 260X380	0161972	1
AE MP SH 600X400	0161986	1
AE MP SH 382X458	0161975	1
AE MP SH 480X480	0161976	1
AE MP SH 350X500	0161982	1
AE MP SH 600X600	0161988	1
AE MP SH 450X620	0161983	1
AE MP SH 550X740	0161989	1
AE MP SH 508X762	0161990	1
AE MP SH 640X860	0161991	1
AE MP SH 610X914	0161992	1
AE MP SH 740X980	0161993	1
TSD-M 6NM	1212226	1
SF-BIT-HEX 3-50	1212647	5
SF-BIT-HEX 4-50	1212648	5
EMP-V4A CS DOOR	0839001	10

### Accessories

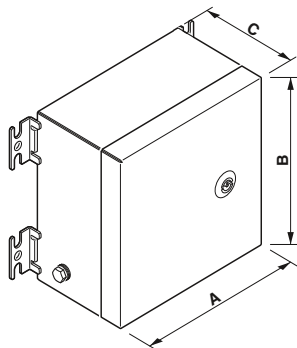
AE MP SH 260X260	0161987	1
AE MP SH 300X300	0161970	1
AE MP SH 260X380	0161972	1
AE MP SH 600X400	0161986	1
AE MP SH 382X458	0161975	1
AE MP SH 480X480	0161976	1
AE MP SH 350X500	0161982	1
AE MP SH 600X600	0161988	1
AE MP SH 450X620	0161983	1
AE MP SH 550X740	0161989	1
AE MP SH 508X762	0161990	1
AE MP SH 640X860	0161991	1
AE MP SH 610X914	0161992	1
AE MP SH 740X980	0161993	1
TSD-M 6NM	1212226	1
SF-BIT-HEX 3-50	1212647	5
SF-BIT-HEX 4-50	1212648	5
EMP-V4A CS DOOR	0839001	10

# Installation and mounting material - CABINET add-on

## CLIPSAFE stainless steel Ex terminal boxes and empty housings

### Empty housing, depth of 240 mm, 260 mm, and 300 mm

- Defined stops and the special seal support ensure optimum seal compression and therefore satisfy the stringent requirements for housing leak-tightness
- From a depth (C) of 160 mm, up to four housing sides can be fitted with flange plates on request
- The stainless steel marking label supplied as standard is fitted on the outside away from the seal area in the bore holes provided
- The patented protective seal frame protects the flange plate seal against external influences
- Additional ground bolts are attached to the door and housing for easy door stop replacement
- The housing design features a large assembly opening for easy access to the terminal boxes. The flat seal edge prevents injury during installation, servicing or maintenance work



Depth of 240 mm, cabinet with hinged door, without flange plates, with mounting plate

### Terminal box marking

An extensive range of marking materials is available for the durable and unique marking of terminal boxes; see "Device marking" section

### Marking

Baseefa 14 ATEX 0393U  
 IECEx BAS 14.0179U  
 ⓧ II 2 G Ex e IIC Gb  
 ⓧ II 2 D Ex tb IIIC Db  
 -55°C ≤ Ta ≤ +135°C Type IP66

Notes:
Detailed installation and assembly instructions for use in Ex areas: see installation instructions and the download area for the item at <a href="http://www.phoenixcontact.net/products">www.phoenixcontact.net/products</a> .
Torque values for all mounting screws are documented in the installation instructions supplied as standard and in the product area of the website at <a href="http://www.phoenixcontact.net/products">www.phoenixcontact.net/products</a> .
In the case of sides with a length of ≥ 600 mm, the material thickness increases to 2 mm.

Material	
Sealing material	
Degree of protection	
Impact strength	[J]
Surface characteristics	brushed, 240 grain
Temperature resistance	[°C]
Type of locking	Door with hinge, Quarter turn locking with two-way key bit
Housing fixing	External fixing clips
Material strength	[mm]

Technical data	
Material	Stainless steel, 316L/1.4404
Sealing material	Silicon
Degree of protection	IP66
Impact strength	7
Surface characteristics	brushed, 240 grain
Temperature resistance	-55 ... 135
Type of locking	Door with hinge, Quarter turn locking with two-way key bit
Housing fixing	External fixing clips
Material strength	2

Description	Dimension A x B x C [mm]
Terminal box with door and twist lock, without flange, including mounting plate	600 x 650 x 240
	400 x 650 x 260
	600 x 600 x 300
	508 x 762 x 300
	600 x 800 x 300
	800 x 800 x 300
	740 x 980 x 300
Control box with door and twist lock, including flange and mounting plate	1000 x 1000 x 300
	600 x 600 x 300
	508 x 762 x 300
	600 x 800 x 300
	800 x 800 x 300
	740 x 980 x 300
	1000 x 1000 x 300

Ordering data		
Type	Order No.	Pcs. / Pkt.
C S6 A 600X650X240	0899126	1

<b>Mounting plate</b> , sheet steel, galvanized	
Dimensions: 600 x 650 x 2 mm	
Dimensions: 400 x 650 x 2 mm	
Dimensions: 600 x 600 x 2 mm	
Dimensions: 508 x 762 x 2 mm	
Dimensions: 600 x 800 x 2 mm	
Dimensions: 800 x 800 x 2 mm	
Dimensions: 740 x 980 x 2 mm	
Dimensions: 1000 x 1000 x 2 mm	
<b>Torque screwdrivers</b> , adjustable from 3 - 6 Nm	black
<b>Screw bit</b> , hexagonal, E6.3-1/4" drive, hardened, suitable for holder according to DIN 3126-F 6.3/ISO 1173, size: hex 3 x 50 mm	silver
Size: hex 4 x 50 mm	silver
<b>Stainless steel label</b> , unmarked, 70 x 50 x 1 mm	

Accessories		
Type	Order No.	Pcs. / Pkt.
AE MP SH 600X650	0161994	1
TSD-M 6NM	1212226	1
SF-BIT-HEX 3-50	1212647	5
SF-BIT-HEX 4-50	1212648	5
EMP-V4A CS DOOR	0839001	10



new

Depth of 260 mm, cabinet with hinged door, without flange plates, with mounting plate



new

Depth of 300 mm, cabinet with hinged door, without flange plates, with mounting plate



new

Depth of 300 mm, cabinet with hinged door, with flange plates on the bottom, with mounting plate

Technical data
Stainless steel, 316L/1.4404
Silicon
IP66
7
brushed , 240 grain
-55 ... 135
Door with hinge, Quarter turn locking with two-way key bit
External fixing clips
2

Technical data
Stainless steel, 316L/1.4404
Silicon
IP66
7
brushed , 240 grain
-55 ... 135
Door with hinge, Quarter turn locking with two-way key bit
External fixing clips
2

Technical data
Stainless steel, 316L/1.4404
Silicon
IP66
7
brushed , 240 grain
-55 ... 135
Door with hinge, Quarter turn locking with two-way key bit
External fixing clips
2

Ordering data		
Type	Order No.	Pcs. / Pkt.
C S6 A 400X650X260	0899127	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
C S6 A 600X600X300	0899128	1
C S6 A 508X762X300	0899130	1
C S6 A 600X800X300	0899132	1
C S6 A 800X800X300	0899134	1
C S6 A 740X980X300	0899136	1
C S6 A 1000X1000X300	0899138	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
C1 S6 A 600X600X300	0899129	1
C1 S6 A 508X762X300	0899131	1
C1 S6 A 600X800X300	0899133	1
C1 S6 A 800X800X300	0899135	1
C1 S6 A 740X980X300	0899137	1
C1 S6 A 1000X1000X300	0899139	1

Accessories		
Type	Order No.	Pcs. / Pkt.
AE MP SH 400X650	0161995	1
TSD-M 6NM	1212226	1
SF-BIT-HEX 3-50	1212647	5
SF-BIT-HEX 4-50	1212648	5
EMP-V4A CS DOOR	0839001	10

Accessories		
Type	Order No.	Pcs. / Pkt.
AE MP SH 600X600	0161988	1
AE MP SH 508X762	0161990	1
AE MP SH 600X800	0161996	1
AE MP SH 800X800	0161997	1
AE MP SH 740X980	0161993	1
AE MP SH 1000X1000	0161998	1
TSD-M 6NM	1212226	1
SF-BIT-HEX 3-50	1212647	5
SF-BIT-HEX 4-50	1212648	5
EMP-V4A CS DOOR	0839001	10

Accessories		
Type	Order No.	Pcs. / Pkt.
AE MP SH 600X600	0161988	1
AE MP SH 508X762	0161990	1
AE MP SH 600X800	0161996	1
AE MP SH 800X800	0161997	1
AE MP SH 740X980	0161993	1
AE MP SH 1000X1000	0161998	1
TSD-M 6NM	1212226	1
SF-BIT-HEX 3-50	1212647	5
SF-BIT-HEX 4-50	1212648	5
EMP-V4A CS DOOR	0839001	10

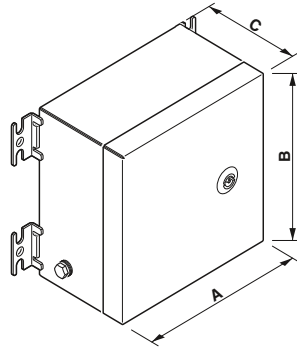
## CLIPSAFE ABS terminal boxes

### Assembled terminal boxes

- Terminal box with cover, pre-assembled terminal strip, and push-in technology (2.5 mm<sup>2</sup> cross section)
- Available pre-assembled with 6, 12 or 20 terminal blocks
- Available with 2, 3 or 4 M20 plastic cable glands depending on the version
- Fast wiring without the need for additional components

#### Connection data for the terminal blocks

Nominal current  $I_N$ : 24 A (at 2.5 mm<sup>2</sup>)  
 Nominal voltage  $U_N$ : 800 V  
 Maximum load current: 30 A (with a 4 mm<sup>2</sup> conductor cross section)  
 Min. conductor cross section, solid: 0.14 mm<sup>2</sup>  
 Max. conductor cross section, solid: 4 mm<sup>2</sup>



new

Terminal box with 6 2.5 mm<sup>2</sup> terminal blocks and push-in technology

Material	
Sealing material	
Degree of protection	
Impact strength	[J]
Surface characteristics	- , -
Temperature resistance	[°C]
Type of locking	
Housing fixing	

Technical data	
Material	ABS
Sealing material	Silicon
Degree of protection	IP66
Impact strength	2 according to EN 62262/EN 50102
Surface characteristics	- , -
Temperature resistance	-40 ... 70
Type of locking	Screw-on cover, Phillips-Recess
Housing fixing	Screw connection in housing base

Description	Dimension A x B x C [mm]
Terminal box with 6 2.5 mm <sup>2</sup> terminal blocks and 2 x M20 cable glands (1 below/1 above)	85 x 83 x 60
<b>Terminal box</b> with 12 2.5 mm <sup>2</sup> terminal blocks and 3 x M20 cable glands (1 below/2 above)	130 x 80 x 60
<b>Terminal box</b> with 20 2.5 mm <sup>2</sup> terminal blocks and 4 x M20 cable glands (1 below/3 above)	180 x 130 x 100

Ordering data		
Type	Order No.	Pcs. / Pkt.
<b>E AB A 85X83X60 6PT</b>	<b>3001998</b>	1





Terminal box with 12 2.5 mm<sup>2</sup> terminal blocks and push-in technology



Terminal box with 20 2.5 mm<sup>2</sup> terminal blocks and push-in technology

Technical data
ABS
Silicon
IP66
2 according to EN 62262/EN 50102
-40 ... 70
Screw-on cover, Phillips-Recess
Screw connection in housing base

Technical data
ABS
Silicon
IP66
2 according to EN 62262/EN 50102
-40 ... 70
Screw-on cover, Phillips-Recess
Screw connection in housing base

Ordering data		
Type	Order No.	Pcs. / Pkt.
E AB A 130X80X60 12PT	3001999	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
E AB A 180X130X100 20PT	3002001	1

## CLIPSAFE ABS terminal boxes

### Assembled terminal boxes

Terminal box with cover, pre-assembled terminal strip, and screw connection technology (2.5 mm<sup>2</sup> cross section)

- Available pre-assembled with 6, 12 or 20 terminal blocks
- Available with 2, 3 or 4 M20 plastic cable glands depending on the version
- Fast wiring without the need for additional components

#### Connection data for the terminal blocks

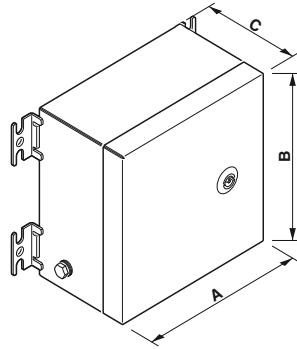
Nominal current  $I_N$ : 24 A

Nominal voltage  $U_N$ : 800 V

Maximum load current: 24 A

Min. conductor cross section, solid: 0.5 mm<sup>2</sup>

Max. conductor cross section, solid: 4 mm<sup>2</sup>



new

Terminal box with 6 2.5 mm<sup>2</sup> terminal blocks and screw connection technology

Material	
Sealing material	
Degree of protection	
Impact strength	[J]
Surface characteristics	- , -
Temperature resistance	[°C]
Type of locking	
Housing fixing	

Technical data	
ABS	
Silicon	
IP66	
2 according to EN 62262/EN 50102	
- , -	
-40 ... 70	
Screw-on cover, Phillips-Recess	
Screw connection in housing base	

Description	Dimension A x B x C [mm]
Terminal box with 6 2.5 mm <sup>2</sup> terminal blocks and 2 x M20 cable glands (1 below/1 above)	85 x 83 x 60
<b>Terminal box</b> with 12 2.5 mm <sup>2</sup> terminal blocks and 3 x M20 cable glands (1 below/2 above)	130 x 80 x 60
<b>Terminal box</b> with 20 2.5 mm <sup>2</sup> terminal blocks and 4 x M20 cable glands (1 below/3 above)	180 x 130 x 100

Ordering data		
Type	Order No.	Pcs. / Pkt.
<b>E AB A 85X83X60 6TB</b>	<b>3002002</b>	1

new



Terminal box with 12 2.5 mm<sup>2</sup> terminal blocks and screw connection technology

new



Terminal box with 20 2.5 mm<sup>2</sup> terminal blocks and screw connection technology

Technical data

ABS  
Silicon  
IP66  
2 according to EN 62262/EN 50102  
-, -  
-40 ... 70  
Screw-on cover, Phillips-Recess  
Screw connection in housing base

Technical data

ABS  
Silicon  
IP66  
2 according to EN 62262/EN 50102  
-, -  
-40 ... 70  
Screw-on cover, Phillips-Recess  
Screw connection in housing base

Ordering data

Type	Order No.	Pcs. / Pkt.
E AB A 130X80X60 12TB	3002003	1

Ordering data

Type	Order No.	Pcs. / Pkt.
E AB A 180X130X100 20TB	3002004	1

# Installation and mounting material - CABINET add-on

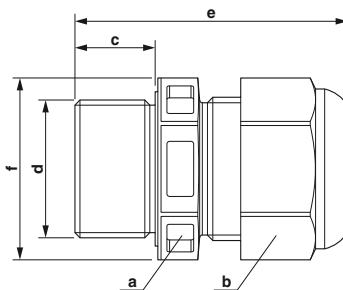
## Ex cable glands

### Plastic cable glands, metric, Ex protection

- Halogen-free
- Vibration-proof plastic cable gland with protection against over-tightening of the cap nut
- Glow-wire test: 750°C
- Degree of protection: IP66/IP68, 5 bar (30 minutes)

#### Marking:

- II 2 G Ex e IIC Gb
- II 2 D Ex IIIC Db IP68



#### Notes:

For counter nuts, see page 506



new

Plastic cable gland



Ex: Ex IIIC

PTB 13 ATEX 1015 X / IECEx PTB 13.0034X

#### Technical data

Polyamide  
EPDM  
EPDM  
-40°C ... 75°C

#### General data

Cable gland material  
Seal material  
O-ring material  
Ambient temperature (operation)

Thread type	Color	Clamping area [mm]
M12	black	3.00 - 6.00
M16	black	4.50 - 9.00
M20	black	7.00 - 13.00
M25	black	10.00 - 17.00
M32	black	13.00 - 21.00
M40	black	17.00 - 28.00
M50	black	23.00 - 35.00
M63	black	34.00 - 48.00

Dimensions [mm]							
a	b	c	d	e	f	g	
16.00	16.00	15.00	12.00	35.00	18.00	-	
20.00	20.00	15.00	16.00	37.00	23.00	-	
24.00	24.00	15.00	20.00	41.00	28.00	-	
29.00	29.00	15.00	25.00	43.00	33.00	-	
36.00	36.00	15.00	32.00	45.00	41.00	-	
46.00	46.00	18.00	40.00	58.00	51.00	-	
55.00	55.00	18.00	50.00	63.00	61.00	-	
68.00	68.00	18.00	63.00	67.00	75.00	-	

#### Ordering data

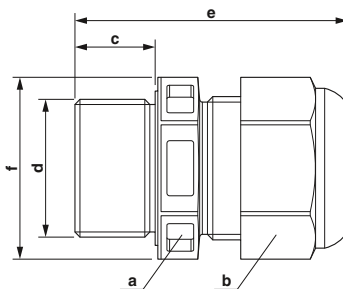
Type	Order No.	Pcs. / Pkt.
G-ESIS-M12-S68L-PEPDS-BK	1415106	10
G-ESIS-M16-S68L-PEPDS-BK	1415107	10
G-ESIS-M20-S68L-PEPDS-BK	1415108	10
G-ESIS-M25-M68L-PEPDS-BK	1415109	10
G-ESIS-M32-M68L-PEPDS-BK	1415110	5
G-ESIS-M40-M68L-PEPDS-BK	1415111	5
G-ESIS-M50-L68L-PEPDS-BK	1415112	1
G-ESIS-M63-L68L-PEPDS-BK	1415113	1

### Plastic cable glands, metric, Ex protection

- Halogen-free
- Vibration-proof plastic cable gland with protection against over-tightening of the cap nut
- Glow-wire test: 750°C
- Degree of protection: IP66/IP68, 5 bar (30 minutes)

#### Marking:

- II 2 G Ex e IIC Gb
- II 2 D Ex IIIC Db IP68



#### Notes:

For counter nuts, see page 506



new

Plastic cable gland



Ex: Ex IIIC

PTB 13 ATEX 1015 X / IECEx PTB 13.0034X

#### Technical data

Polyamide  
EPDM  
EPDM  
-40°C ... 75°C

#### General data

Cable gland material  
Seal material  
O-ring material  
Ambient temperature (operation)

Thread type	Color	Clamping area [mm]
M12	black/blue	3.00 - 6.00
M16	black/blue	4.50 - 9.00
M20	black/blue	7.00 - 13.00
M25	black/blue	10.00 - 17.00
M32	black/blue	13.00 - 21.00
M40	black/blue	17.00 - 28.00
M50	black/blue	23.00 - 35.00
M63	black/blue	34.00 - 48.00

Dimensions [mm]							
a	b	c	d	e	f	g	
16.00	16.00	15.00	12.00	35.00	18.00	-	
20.00	20.00	15.00	16.00	37.00	23.00	-	
24.00	24.00	15.00	20.00	41.00	28.00	-	
29.00	29.00	15.00	25.00	43.00	33.00	-	
36.00	36.00	15.00	32.00	45.00	41.00	-	
46.00	46.00	18.00	40.00	58.00	51.00	-	
55.00	55.00	18.00	50.00	63.00	61.00	-	
68.00	68.00	18.00	63.00	67.00	75.00	-	

#### Ordering data

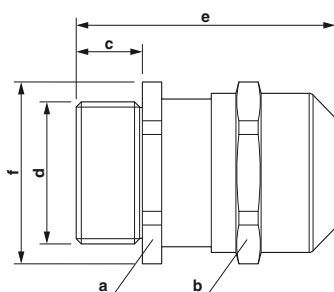
Type	Order No.	Pcs. / Pkt.
G-ESIS-M12-S68L-PEPDS-BL	1415114	10
G-ESIS-M16-S68L-PEPDS-BL	1415116	10
G-ESIS-M20-S68L-PEPDS-BL	1415117	10
G-ESIS-M25-M68L-PEPDS-BL	1415118	10
G-ESIS-M32-M68L-PEPDS-BL	1415119	5
G-ESIS-M40-M68L-PEPDS-BL	1415120	5
G-ESIS-M50-L68L-PEPDS-BL	1415121	1
G-ESIS-M63-L68L-PEPDS-BL	1415122	1

**Brass cable glands, metric, Ex protection**

- Halogen-free
- Polyamide compression ring
- Degree of protection: IP66/IP68, 5 bar (30 minutes)

**Marking:**

- II 2 G Ex e IIC Gb
- II 2 D Ex IIIC Db IP68



**Notes:**  
For counter nuts, see page 506



new

Brass cable gland

Ex: PTB 04 ATEX 1112 X / IECEx PTB 13.0027X

**General data**

Cable gland material  
Seal material  
O-ring material  
Ambient temperature (operation)

**Technical data**

Nickel-plated brass  
EPDM  
EPDM  
-40°C ... 75°C

Thread type	Color	Clamping area [mm]	Dimensions [mm]						
			a	b	c	d	e	f	g
M12	silver	4.00 - 7.00	-	16.00	12.00	12.00	30.00	18.00	-
M16	silver	5.00 - 10.00	-	20.00	12.00	16.00	33.00	22.00	-
M20	silver	6.00 - 13.00	-	24.00	12.00	20.00	35.00	27.00	-
M25	silver	10.00 - 17.00	-	29.00	12.00	25.00	38.00	32.00	-
M32	silver	13.00 - 21.00	-	36.00	15.00	32.00	43.00	40.00	-
M40	silver	16.00 - 28.00	-	46.00	15.00	40.00	51.00	51.00	-
M50	silver	21.00 - 35.00	-	55.00	15.00	50.00	57.00	61.00	-
M63	silver	34.00 - 48.00	-	68.00	15.00	63.00	61.00	75.00	-

**Ordering data**

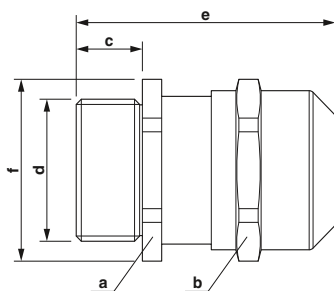
Type	Order No.	Pcs. / Pkt.
G-ESIS-M12-S68N-NEPDS-S	1415123	10
G-ESIS-M16-S68N-NEPDS-S	1415124	10
G-ESIS-M20-S68N-NEPDS-S	1415125	10
G-ESIS-M25-M68N-NEPDS-S	1415126	10
G-ESIS-M32-M68L-NEPDS-S	1415127	5
G-ESIS-M40-M68L-NEPDS-S	1415129	5
G-ESIS-M50-L68L-NEPDS-S	1415146	1
G-ESIS-M63-L68L-NEPDS-S	1415147	1

**Brass EMC cable glands, metric, Ex protection**

- Halogen-free
- Polyamide compression ring
- Permanent braided shield contact by means of grounding cones in the EMC screw connection
- Degree of protection: IP66/IP68, 5 bar (30 minutes)

**Marking:**

- II 2 G Ex e IIC Gb
- II 2 D Ex IIIC Db IP68



**Notes:**  
For ribbed counter nut, see page 507



new

Brass EMC cable gland

Ex: PTB 04 ATEX 1112 X / IECEx PTB 13.0027X

**General data**

Cable gland material  
Seal material  
O-ring material  
Ambient temperature (operation)

**Technical data**

Nickel-plated brass  
EPDM  
EPDM  
-40°C ... 75°C

Thread type	Color	Clamping area [mm]	Dimensions [mm]						
			a	b	c	d	e	f	g
M12	silver	4.00 - 7.00	16.00	16.00	12.00	12.00	30.00	18.00	-
M16	silver	5.00 - 10.00	20.00	20.00	12.00	16.00	33.00	22.00	-
M20	silver	6.00 - 13.00	24.00	24.00	12.00	20.00	35.00	27.00	-
M25	silver	10.00 - 17.00	29.00	29.00	12.00	25.00	38.00	32.00	-
M32	silver	13.00 - 21.00	36.00	36.00	15.00	32.00	43.00	40.00	-
M40	silver	16.00 - 28.00	46.00	46.00	15.00	40.00	51.00	51.00	-
M50	silver	21.00 - 35.00	55.00	55.00	15.00	50.00	57.00	61.00	-
M63	silver	34.00 - 48.00	68.00	68.00	15.00	63.00	61.00	75.00	-

**Ordering data**

Type	Order No.	Pcs. / Pkt.
G-ESIS-EMC-M12-S68N-NEPDS-S	1415148	10
G-ESIS-EMC-M16-S68N-NEPDS-S	1415149	10
G-ESIS-EMC-M20-S68N-NEPDS-S	1415163	10
G-ESIS-EMC-M25-M68N-NEPDS-S	1415165	10
G-ESIS-EMC-M32-M68L-NEPDS-S	1415166	5
G-ESIS-EMC-M40-M68L-NEPDS-S	1415168	5
G-ESIS-EMC-M50-L68L-NEPDS-S	1415169	1
G-ESIS-EMC-M63-L68L-NEPDS-S	1415170	1

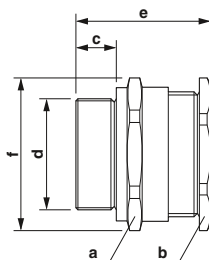
# Installation and mounting material - CABINET add-on

## Ex cable glands

### Brass cable glands, metric, Ex protection

The cable glands for unarmored and braided cables provide flameproof (type "d"), increased safety (type "e"), and restricted breathing (type "nR") protection.

– Degree of protection: IP66/IP67/IP68



**Brass cable gland**

**Notes:**  
For counter nuts, see page 506

Ex: CIDET EAC Ex NEPSI  
SIRA13ATEX1068X / IECEx SIR13.0023X

#### General data

Cable gland material  
Seal material  
O-ring material  
Ambient temperature (operation)

#### Technical data

Nickel-plated brass  
Thermoplastic elastomers  
Viton  
-60°C ... 130°C

Thread type	Color	Clamping area [mm]
M20	silver	6.50 - 14.00
M25	silver	11.10 - 20.00
M32	silver	17.00 - 26.30
M40	silver	23.50 - 32.20
M50	silver	35.60 - 44.10
M63	silver	47.20 - 56.00

Dimensions [mm]							
a	b	c	d	e	f	g	
27.00	27.00	15.00	20.00	39.00	29.70	-	
36.00	36.00	15.00	25.00	41.00	39.60	-	
41.00	41.00	15.00	32.00	42.00	45.10	-	
50.00	50.00	15.00	40.00	43.00	55.00	-	
60.00	60.00	15.00	50.00	45.00	66.00	-	
75.00	75.00	15.00	63.00	45.00	82.50	-	

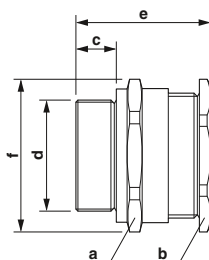
#### Ordering data

Type	Order No.	Pcs. / Pkt.
G-ESS-M20-S66L-NTES-S	1411075	20
G-ESS-M25-M66L-NTES-S	1411077	20
G-ESS-M32-M66L-NTES-S	1411079	10
G-ESS-M40-L66L-NTES-S	1411081	2
G-ESS-M50-L66L-NTES-S	1411084	2
G-ESS-M63-L66L-NTES-S	1411086	2

### Stainless steel cable glands, metric, Ex protection

The cable glands for unarmored and braided cables provide flameproof (type "d"), increased safety (type "e"), and restricted breathing (type "nR") protection.

– Degree of protection: IP66/IP67/IP68



**Stainless steel cable gland**

**Notes:**  
For counter nuts, see page 507

Ex: CIDET EAC Ex NEPSI  
SIRA13ATEX1068X / IECEx SIR13.0023X

#### General data

Cable gland material  
Seal material  
O-ring material  
Ambient temperature (operation)

#### Technical data

Stainless steel 1.4404  
Thermoplastic elastomers  
Viton  
-60°C ... 130°C

Thread type	Color	Clamping area [mm]
M20	silver	6.50 - 14.00
M25	silver	11.10 - 20.00
M32	silver	17.00 - 26.30
M40	silver	23.50 - 32.20
M50	silver	35.60 - 44.10
M63	silver	47.20 - 56.00

Dimensions [mm]							
a	b	c	d	e	f	g	
27.00	27.00	15.00	20.00	39.00	29.70	-	
36.00	36.00	15.00	25.00	41.00	39.60	-	
41.00	41.00	15.00	32.00	42.00	45.10	-	
50.00	50.00	15.00	40.00	43.00	55.00	-	
60.00	60.00	15.00	50.00	45.00	66.00	-	
75.00	75.00	15.00	63.00	45.00	82.50	-	

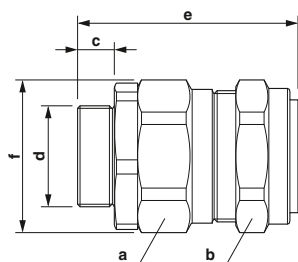
#### Ordering data

Type	Order No.	Pcs. / Pkt.
G-ESS-M20-S66L-STES-S	1411076	20
G-ESS-M25-M66L-STES-S	1411078	20
G-ESS-M32-M66L-STES-S	1411080	10
G-ESS-M40-L66L-STES-S	1411082	2
G-ESS-M50-L66L-STES-S	1411085	2
G-ESS-M63-L66L-STES-S	1411087	2

**Brass cable glands, metric, Ex protection**

The cable glands for armored cables provide increased safety (type “e”) protection.

– Degree of protection: IP66/IP67/IP68



Brass cable gland

**Notes:**  
For counter nuts, see page 506

Ex: CIDET EAC Ex NEPSI  
SIRA13ATEX1070X / IECEx SIR13.0025X

General data	
Cable gland material	
Seal material	
O-ring material	
Ambient temperature (operation)	

Technical data	
Nickel-plated brass	
Thermoplastic elastomers	
Viton	
-60°C ... 130°C	

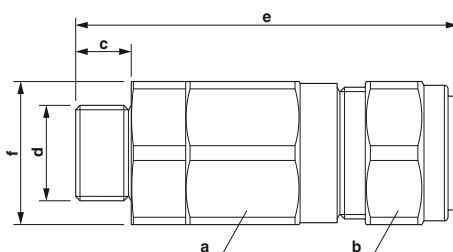
Thread type	Color	Clamping area [mm]	Dimensions [mm]						
			a	b	c	d	e	f	g
M20	silver	9.50 - 15.90	24.00	24.00	15.00	20.00	62.00	26.40	-
M20	silver	12.50 - 20.90	30.50	30.50	15.00	20.00	65.00	33.60	-
M25	silver	18.20 - 26.20	37.50	37.50	15.00	25.00	70.00	41.30	-
M32	silver	23.70 - 33.90	46.00	46.00	15.00	32.00	73.00	50.60	-
M40	silver	27.90 - 40.40	55.00	55.00	15.00	40.00	73.00	60.50	-
M50	silver	40.40 - 53.10	70.00	70.00	15.00	50.00	75.00	77.00	-
M63	silver	54.60 - 65.90	80.00	80.00	15.00	63.00	78.00	88.00	-

Ordering data		
Type	Order No.	Pcs. / Pkt.
G-ESSWU-M20S-S66L-NTES-S	1411088	10
G-ESSWU-M20-M66L-NTES-S	1411090	10
G-ESSWU-M25-M66L-NTES-S	1411092	10
G-ESSWU-M32-L66L-NTES-S	1411094	5
G-ESSWU-M40-L66L-NTES-S	1411097	1
G-ESSWU-M50-L66L-NTES-S	1411100	1
G-ESSWU-M63-L66L-NTES-S	1411102	1

**Stainless steel cable glands, metric, Ex protection**

The cable glands for armored cables provide flameproof (type “d”), increased safety (type “e”), and restricted breathing (type “nR”) protection.

– Degree of protection: IP66/IP67/IP68



Stainless steel cable gland

**Notes:**  
For counter nuts, see page 507

Ex: CIDET EAC Ex NEPSI  
SIRA13ATEX1073X / IECEx SIR13.0028X

General data	
Cable gland material	
Seal material	
O-ring material	
Ambient temperature (operation)	

Technical data	
Stainless steel 1.4404	
Thermoplastic elastomers	
Viton	
-60°C ... 130°C	

Thread type	Color	Clamping area [mm]	Dimensions [mm]						
			a	b	c	d	e	f	g
M20	silver	9.50 - 15.90	24.00	24.00	15.00	20.00	85.00	26.40	-
M20	silver	12.50 - 20.90	30.50	30.50	15.00	20.00	87.00	33.60	-
M25	silver	18.20 - 26.20	37.50	37.50	15.00	25.00	97.00	41.30	-
M32	silver	23.70 - 33.90	46.00	46.00	15.00	32.00	100.00	50.60	-
M40	silver	27.90 - 40.40	55.00	55.00	15.00	40.00	101.00	60.50	-
M50	silver	40.40 - 53.10	70.00	70.00	15.00	50.00	115.00	77.00	-
M63	silver	54.60 - 65.90	80.00	80.00	15.00	63.00	118.00	88.00	-

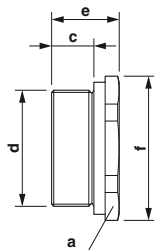
Ordering data		
Type	Order No.	Pcs. / Pkt.
G-EDSWU-M20S-S66L-STES-S	1411089	10
G-EDSWU-M20-M66L-STES-S	1411091	10
G-EDSWU-M25-M66L-STES-S	1411093	10
G-EDSWU-M32-L66L-STES-S	1411095	5
G-EDSWU-M40-L66L-STES-S	1411099	1
G-EDSWU-M50-L66L-STES-S	1411101	1
G-EDSWU-M63-L66L-STES-S	1411103	1

# Installation and mounting material - CABINET add-on

## Ex cable glands

### Brass screw plugs, metric, Ex protection

Screw plugs provide IP66 and IP68 protection when installed with an entry thread ring, sealing unused cable entries in flameproof (type "d") and increased safety (type "e") installations.



Brass screw plug

**Notes:**  
For counter nuts, see page 506.

Ex:   
SIRA01ATEX1284U / IECEx SIR07.0083X

#### General data

Material  
Ambient temperature (operation)

#### Technical data

Nickel-plated brass  
-60°C ... 200°C

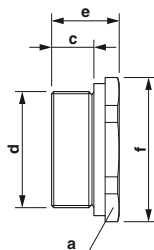
#### Ordering data

Thread type	Color	Clamping area [mm]	Dimensions [mm]						
			a	b	c	d	e	f	g
M20	silver	-	24.00	-	15.00	20.00	24.00	26.40	-
M25	silver	-	30.00	-	15.00	25.00	24.00	33.00	-
M32	silver	-	36.00	-	15.00	32.00	24.00	39.60	-
M40	silver	-	46.00	-	15.00	40.00	24.00	50.60	-
M50	silver	-	55.00	-	15.00	50.00	24.00	60.50	-
M63	silver	-	65.00	-	15.00	63.00	24.00	77.00	-

Type	Order No.	Pcs. / Pkt.
A-EXSH-M20-68L-N-S	1411104	20
A-EXSH-M25-68L-N-S	1411107	20
A-EXSH-M32-68L-N-S	1411109	10
A-EXSH-M40-68L-N-S	1411111	5
A-EXSH-M50-68L-N-S	1411113	2
A-EXSH-M63-68L-N-S	1411115	1

### Stainless steel screw plugs, metric, Ex protection

Screw plugs provide IP66 and IP68 protection when installed with an entry thread ring, sealing unused cable entries in flameproof (type "d") and increased safety (type "e") installations.



Stainless steel screw plug

**Notes:**  
For counter nuts, see page 507.

Ex:   
SIRA01ATEX1284U / IECEx SIR07.0083X

#### General data

Material  
Ambient temperature (operation)

#### Technical data

Stainless steel 1.4404  
-60°C ... 200°C

#### Ordering data

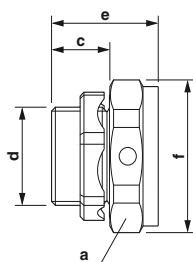
Thread type	Color	Clamping area [mm]	Dimensions [mm]						
			a	b	c	d	e	f	g
M20	silver	-	24.00	-	15.00	20.00	24.00	26.40	-
M25	silver	-	30.00	-	15.00	25.00	24.00	33.00	-
M32	silver	-	36.00	-	15.00	32.00	24.00	39.60	-
M40	silver	-	46.00	-	15.00	40.00	24.00	50.60	-
M50	silver	-	55.00	-	15.00	50.00	24.00	60.50	-
M63	silver	-	65.00	-	15.00	63.00	24.00	77.00	-

Type	Order No.	Pcs. / Pkt.
A-EXSH-M20-68L-S-S	1411105	20
A-EXSH-M25-68L-S-S	1411108	20
A-EXSH-M32-68L-S-S	1411110	10
A-EXSH-M40-68L-S-S	1411112	5
A-EXSH-M50-68L-S-S	1411114	2
A-EXSH-M63-68L-S-S	1411116	1



**Brass pressure compensation, metric, Ex protection**

Breather/drain plugs for increased safety (type "e") provide superior ventilation for devices. They are designed to act as a pressure compensation element preventing moisture build-up to IP66.



**Brass pressure compensation**

**Notes:**  
For counter nuts, see page 506.

Ex: EAC Ex NEPSI  
SIRA10ATEX1307U / IECEx SIR10.0149U

General data		
Material		
Ambient temperature (operation)		

**Technical data**

Nickel-plated brass  
-60°C ... 130°C

Thread type	Color	Clamping area [mm]
M20	silver	-
M25	silver	-

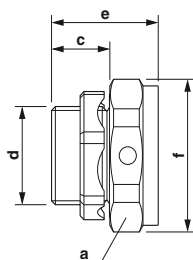
Dimensions [mm]							
a	b	c	d	e	f	g	
30.00	-	15.00	20.00	32.00	33.00	-	
31.50	-	15.00	25.00	32.00	39.60	-	

**Ordering data**

Type	Order No.	Pcs. / Pkt.
A-EXB-20-66L-N-S	1411117	5
A-EXB-25-66L-N-S	1411120	5

**Stainless steel pressure compensation, metric, Ex protection**

Breather/drain plugs for increased safety (type "e") provide superior ventilation for devices. They are designed to act as a pressure compensation element preventing moisture build-up to IP66.



**Stainless steel pressure compensation**

**Notes:**  
For counter nuts, see page 507.

Ex: EAC Ex NEPSI  
SIRA10ATEX1307U / IECEx SIR10.0149U

General data		
Material		
Ambient temperature (operation)		

**Technical data**

Stainless steel 1.4404  
-60°C ... 130°C

Thread type	Color	Clamping area [mm]
M20	silver	-
M25	silver	-

Dimensions [mm]							
a	b	c	d	e	f	g	
30.00	-	15.00	20.00	32.00	26.40	-	
31.50	-	15.00	25.00	32.00	33.00	-	

**Ordering data**

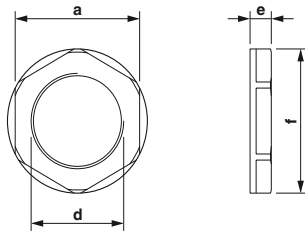
Type	Order No.	Pcs. / Pkt.
A-EXB-20-66L-S-S	1411118	5
A-EXB-25-66L-S-S	1411121	5

# Installation and mounting material - CABINET add-on

## Ex cable glands

### Plastic counter nuts, metric, EN 60423

- Material: polyamide 6
- Color: deep black (RAL 9005)
- Ambient temperature: -20°C ... +80°C



Plastic counter nut

#### General data

Material  
Ambient temperature (operation)

PA 6 GF 30  
-20°C ... 80°C

#### Technical data

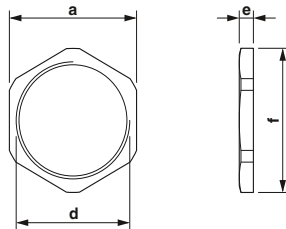
#### Ordering data

Thread type	Color	Clamping area [mm]	Dimensions [mm]						
			a	b	c	d	e	f	g
M12	jet black	-	18.00	-	-	12.00	5.00	19.50	-
M16	jet black	-	22.00	-	-	16.00	5.00	24.20	-
M20	jet black	-	26.00	-	-	20.00	6.00	28.60	-
M25	jet black	-	32.00	-	-	25.00	6.00	35.00	-
M32	jet black	-	41.00	-	-	32.00	7.00	46.10	-
M40	jet black	-	50.00	-	-	40.00	7.00	55.30	-
M50	jet black	-	60.00	-	-	50.00	8.00	66.10	-
M63	jet black	-	75.00	-	-	63.00	8.00	82.50	-

Type	Order No.	Pcs. / Pkt.
A-INL-M12-P-BK	1411213	10
A-INL-M16-P-BK	1411214	10
A-INL-M20-P-BK	1411215	5
A-INL-M25-P-BK	1411216	5
A-INL-M32-P-BK	1411217	5
A-INL-M40-P-BK	1411218	5
A-INL-M50-P-BK	1411219	5
A-INL-M63-P-BK	1411220	5

### Brass counter nuts, metric, EN 60423

- Material: brass, nickel-plated
- Ambient temperature: -70°C ... +220°C



Brass counter nut

#### General data

Material  
Ambient temperature (operation)

Nickel-plated brass  
-70°C ... 220°C

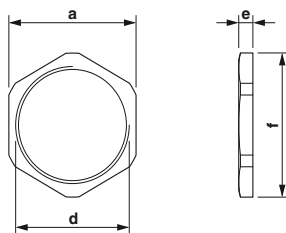
#### Technical data

#### Ordering data

Thread type	Color	Clamping area [mm]	Dimensions [mm]						
			a	b	c	d	e	f	g
M12	silver	-	15.00	-	-	12.00	2.80	16.50	-
M16	silver	-	19.00	-	-	16.00	2.80	21.00	-
M20	silver	-	24.00	-	-	20.00	3.00	27.00	-
M25	silver	-	30.00	-	-	25.00	3.50	33.50	-
M32	silver	-	36.00	-	-	32.00	4.00	40.00	-
M40	silver	-	46.00	-	-	40.00	5.00	50.00	-
M50	silver	-	57.00	-	-	50.00	5.00	65.00	-
M63	silver	-	70.00	-	-	63.00	6.00	75.00	-

Type	Order No.	Pcs. / Pkt.
A-INL-M12-N-S	1411240	100
A-INL-M16-N-S	1411241	100
A-INL-M20-N-S	1411242	100
A-INL-M25-N-S	1411243	100
A-INL-M32-N-S	1411244	100
A-INL-M40-N-S	1411246	50
A-INL-M50-N-S	1411247	25
A-INL-M63-N-S	1411248	25

**Stainless steel counter nuts, metric**



Stainless steel counter nut

**General data**

Material  
Ambient temperature (operation)

**Technical data**

Stainless steel 1.4305  
-70°C ... 220°C

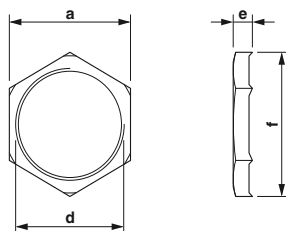
**Ordering data**

Thread type	Color	Clamping area [mm]	Dimensions [mm]						
			a	b	c	d	e	f	g
M20	silver	-	24.00	-	-	20.00	3.00	27.00	-
M25	silver	-	30.00	-	-	25.00	3.50	33.50	-
M32	silver	-	36.00	-	-	32.00	4.00	40.00	-
M40	silver	-	46.00	-	-	40.00	5.00	50.00	-
M50	silver	-	55.00	-	-	50.00	5.00	65.00	-
M63	silver	-	70.00	-	-	63.00	6.00	75.00	-

Type	Order No.	Pcs. / Pkt.
A-INL-M20-S-S	1411249	10
A-INL-M25-S-S	1411250	10
A-INL-M32-S-S	1411251	5
A-INL-M40-S-S	1411252	5
A-INL-M50-S-S	1411253	2
A-INL-M63-S-S	1411254	1

**Brass counter nuts, metric, EN 60423, ribbed**

- Material: brass, nickel-plated
- Ambient temperature: -70°C ... +220°C
- Version: ribbed



Brass counter nut

Thread type	Color	Clamping area [mm]	Dimensions [mm]						
			a	b	c	d	e	f	g
M12	silver	-	15.00	-	-	12.00	4.70	16.50	-
M16	silver	-	19.00	-	-	16.00	4.70	21.00	-
M20	silver	-	24.00	-	-	20.00	4.70	27.00	-
M25	silver	-	30.00	-	-	25.00	5.20	33.50	-
M32	silver	-	36.00	-	-	32.00	5.70	40.00	-
M40	silver	-	46.00	-	-	40.00	6.50	50.00	-
M50	silver	-	60.00	-	-	50.00	6.50	65.00	-
M63	silver	-	70.00	-	-	63.00	7.00	75.00	-

**Ordering data**

Type	Order No.	Pcs. / Pkt.
A-INLE-M12-N-S	1411267	100
A-INLE-M16-N-S	1411268	100
A-INLE-M20-N-S	1411269	100
A-INLE-M25-N-S	1411270	50
A-INLE-M32-N-S	1411271	50
A-INLE-M40-N-S	1411272	50
A-INLE-M50-N-S	1411273	10
A-INLE-M63-N-S	1411274	10

## Component mounting

### DIN rails NS 15, flat design



- The design of the DIN rails complies with European standard EN 60715
- Particular attention has been paid to a high degree of dimensional accuracy and surface tempering
- All DIN rails are also available cut to length

The DIN rails are available with various surface coatings and are suitable for the following applications:

- Zinc plated, for indoor applications
- White passivated, for indoor applications
- Zinc plated and thick layer passivated, for indoor and protected outdoor applications
- Aluminum; as a result of their improved conductivity, these versions can also be used as PEN busbars

Notes:
For dimensional drawings and ordering examples, see page 519.
For PPS ... DIN rail profile cutters, see page 370.
1) Please specify the desired length in millimeters when placing your order. See order example.
2) Please specify the desired length and borehole when placing your order. See order example.



Unperforated, zinc plated, and thick layer passivated

General data
Material / coating

Technical data
Steel / galvanized, passivated with a thick layer

Description	Color
<b>DIN rail, unperforated</b> , in accordance with EN 60715 - 15 x 5.5 mm, galvanized and thick layer passivated, supply length: 2 m	silver
<b>DIN rail, unperforated</b> , in accordance with EN 60715 - 15 x 5.5 mm, galvanized and thick layer passivated, cut to length according to customer specifications <sup>1)</sup>	silver
<b>DIN rail, unperforated</b> , in acc. with EN 60715 - 15 x 5.5 mm, galvanized and thick layer passivated, cut to length acc. to customer specifications and provided with mounting holes <sup>2)</sup>	silver
<b>DIN rail, perforated</b> , in accordance with EN 60715 - 15 x 5.5 mm, galvanized and thick layer passivated, supply length: 2 m	silver
<b>DIN rail, perforated</b> , in accordance with EN 60715 - 15 x 5.5 mm, galvanized and thick layer passivated, cut to length according to customer specifications <sup>1)</sup>	silver
<b>DIN rail, perforated</b> , dimensions according to EN 60715 - 15 x 5.5 mm, white passivated, low design, supply length: 2 m	white
<b>DIN rail, perforated</b> , dimensions in acc. with EN 60715 - 15 x 5.5 mm, supply length: 2 m, <b>material: aluminum</b>	silver

Ordering data		
Type	Order No.	Pcs. / Pkt.
NS 15 UNPERF 2000MM	1401695	5
NS 15 UNPERF/...	1208089	1
NS 15 UNPERF/SO/...	1208092	1



Perforated, zinc plated, and thick layer passivated



Perforated, white passivated



Perforated, aluminum

Technical data
Steel / galvanized, passivated with a thick layer

Technical data
Steel / galvanized, white passivated

Technical data
Aluminum / uncoated

Ordering data		
Type	Order No.	Pcs. / Pkt.
NS 15 PERF 2000MM	1401682	5
NS 15 PERF/...	1208102	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
NS 15 WH PERF 2000MM	1204096	5

Ordering data		
Type	Order No.	Pcs. / Pkt.
NS 15 AL PERF 2000MM	1401763	5

# Installation and mounting material - CABINET add-on

## Component mounting

### DIN rails NS 35, flat design



- The design of the DIN rails complies with European standard EN 60715
- Particular attention has been paid to a high degree of dimensional accuracy and surface tempering
- All DIN rails are also available cut to length

The DIN rails are available with various surface coatings and are suitable for the following applications:

- Zinc plated, for indoor applications
- White passivated, for indoor applications
- Zinc plated and thick layer passivated, for indoor and protected outdoor applications
- Aluminum; as a result of their improved conductivity, these versions can also be used as PEN busbars

Notes:
For dimensional drawings and ordering examples, see page 519.
For PPS ... DIN rail profile cutters, see page 370.
1) Please specify the desired length in millimeters when placing your order. See order example.
2) Please specify the desired length and borehole when placing your order. See order example.



Unperforated, zinc plated, and thick layer passivated

General data
Material / coating

Technical data
Steel / galvanized, passivated with a thick layer

Description	Color
<b>DIN rail, unperforated</b> , in acc. with EN 60715 - 35 x 7.5 mm, galvanized and passivated with a thick layer, low design, supply length: 2 m	silver
<b>DIN rail, unperforated</b> , according to EN 60715 - 35 x 7.5 mm, galvanized and thick layer passivated, low design, supply length: 1 m	silver
<b>DIN rail, unperforated</b> , in accordance with EN 60715 - 35 x 7.5 mm, galvanized and thick layer passivated, low design, cut to length according to customer specifications <sup>1)</sup>	silver
<b>DIN rail, unperforated</b> , in accordance with EN 60715 - 35 x 7.5 mm, galvanized and thick layer passivated, low design, cut to length according to customer specifications and provided with mounting holes <sup>2)</sup>	silver
<b>DIN rail, unperforated</b> , dimensions according to EN 60715 - 35 x 7.5 mm, white passivated, low design, supply length: 2 m	white
<b>DIN rail, unperforated</b> , dimensions in acc. with EN 60715 - 35 x 7.5 mm, galvanized, low design, supply length: 2 m	silver
<b>DIN rail, unperforated</b> , dimensions in acc. with EN 60715 - 35 x 7.5 mm, low design, supply length: 2 m, <b>Material: copper</b>	copper-colored

Ordering data		
Type	Order No.	Pcs. / Pkt.
NS 35/ 7,5 UNPERF 2000MM	0801681	5
NS 35/ 7,5 UNPERF 1000MM	1207649	20
NS 35/ 7,5 UNPERF/...	1208115	1
NS 35/ 7,5 UNPERF/SO/...	1208128	1

DIN rail end piece for DIN rail NS35/7.5

Accessories		
Type	Order No.	Pcs. / Pkt.
NS 35/ 7,5 CAP	1206560	100



Unperforated, white passivated



Unperforated, zinc plated



Unperforated, copper

**Technical data**

Steel / galvanized, white passivated

**Ordering data**

Type	Order No.	Pcs. / Pkt.
NS 35/ 7,5 WH UNPERF 2000MM	1204122	5

**Accessories**

NS 35/ 7,5 CAP	1206560	100
----------------	---------	-----

**Technical data**

Steel / galvanized

**Ordering data**

Type	Order No.	Pcs. / Pkt.
NS 35/ 7,5 ZN UNPERF 2000MM	1206434	5

**Accessories**

NS 35/ 7,5 CAP	1206560	100
----------------	---------	-----

**Technical data**

Copper / uncoated

**Ordering data**

Type	Order No.	Pcs. / Pkt.
NS 35/ 7,5 CU UNPERF 2000MM	0801762	5

**Accessories**

NS 35/ 7,5 CAP	1206560	100
----------------	---------	-----

# Installation and mounting material - CABINET add-on

## Component mounting

### DIN rails NS 35, flat design

<b>Notes:</b>
For dimensional drawings and ordering examples, see page 519.
For PPS ... DIN rail profile cutters, see page 370.



Unperforated, aluminum



Unperforated, stainless steel

General data		Technical data			Technical data		
		Ordering data			Ordering data		
Material / coating		Aluminum / uncoated			Stainless steel V2A / uncoated		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
	silver	NS 35/ 7,5 AL UNPERF 2000MM	0801704	5	NS 35/ 7,5 V2A UNPERF 2000MM	0801377	5
<b>DIN rail, unperforated</b> , dimensions in acc. with EN 60715 - 35 x 7.5 mm, low design, supply length: 2 m, <b>Material: aluminum</b>							
<b>DIN rail, unperforated</b> , dimensions in acc. with EN 60715 - 35 x 7.5 mm, low design, supply length: 2 m, <b>Material: high-grade steel V2A</b>							
DIN rail end piece for DIN rail NS35/7.5		Accessories			Accessories		
		NS 35/ 7,5 CAP	1206560	100	NS 35/ 7,5 CAP	1206560	100



**NS 35 DIN rails, flat design, perforated**

<b>Notes:</b>
1) Please specify the desired length in millimeters when placing your order. See order example.
For PPS ... DIN rail profile cutters, see page 370.



**Perforated, zinc plated, and thick layer passivated**



**Perforated, zinc plated**

General data	
Material / coating	Steel / galvanized
Description	Color
<b>DIN rail, perforated</b> , in acc. with EN 60715 - 35 x 7.5 mm, galvanized and passivated with a thick layer, low design, supply length: 2 m	silver
<b>DIN rail, perforated</b> , according to EN 60715 - 35 x 7.5 mm, galvanized and thick layer passivated, low design, supply length: 1 m	silver
<b>DIN rail, perforated</b> , in accordance with EN 60715 - 35 x 7.5 mm, galvanized and thick layer passivated, low design, for cabinet width / depth of 0.8 m	silver
Length: 755 mm	silver
For cabinet width / depth of 1.2 m, supply length: 1155 mm	silver
<b>DIN rail, perforated</b> , in accordance with EN 60715 - 35 x 7.5 mm, galvanized and thick layer passivated, low design, cut to length according to customer specifications <sup>1)</sup>	silver
<b>DIN rail, perforated</b> , dimensions in acc. with EN 60715 - 35 x 7.5 mm, galvanized, low design, supply length: 2 m	silver
<b>DIN rail, perforated</b> , in accordance with EN 60715 - 35 x 7.5 mm, galvanized and thick layer passivated, low design, for cabinet width / depth of 0.8 m	silver
Length: 755 mm	silver
<b>DIN rail end piece</b> for DIN rail NS35/7.5	

Technical data		
Steel / galvanized, passivated with a thick layer		
Ordering data		
Type	Order No.	Pcs. / Pkt.
NS 35/ 7,5 PERF 2000MM	0801733	5
NS 35/ 7,5 PERF 1000MM	1207651	20
NS 35/ 7,5 PERF 755MM	1207640	10
NS 35/ 7,5 PERF 1155MM	1207666	10
NS 35/ 7,5 PERF/...	1208131	1
NS 35/ 7,5 PERF 755MM	1207640	10
Accessories		
NS 35/ 7,5 CAP	1206560	100

Technical data		
Steel / galvanized		
Ordering data		
Type	Order No.	Pcs. / Pkt.
NS 35/ 7,5 ZN PERF 2000MM	1206421	5
Accessories		
NS 35/ 7,5 CAP	1206560	100

# Installation and mounting material - CABINET add-on

## Component mounting

### NS 35 DIN rails, tall design

<b>Notes:</b>
For dimensional drawings and ordering examples, see page 519
For PPS ... DIN rail profile cutters, see page 370
1) Please specify the desired length in millimeters when placing your order. See order example.
2) Please specify the desired length and borehole when placing your order. See order example.



Unperforated, zinc plated, and thick layer passivated



Unperforated, white passivated

General data		Technical data			Technical data		
Material / coating		Steel / galvanized, passivated with a thick layer			Steel / galvanized, white passivated		
Description		Ordering data			Ordering data		
Color		Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
<b>DIN rail, unperforated</b> , in acc. with EN 60715 - 35 x 15 mm, galvanized and passivated with a thick layer, tall design, supply length: 2 m		NS 35/15 UNPERF 2000MM	1201714	5			
<b>DIN rail, unperforated</b> , according to EN 60715 - 35 x 15 mm, galvanized and thick layer passivated, low design, supply length: 1 m		NS 35/15 UNPERF 1000MM	1207655	20			
<b>DIN rail, unperforated</b> in accordance with EN 60715 - 35 x 15 mm, galvanized and thick layer passivated, tall design, cut to length according to customer specifications <sup>1)</sup>		NS 35/15 UNPERF/...	1208144	1			
<b>DIN rail, unperforated</b> in accordance with EN 60715 - 35 x 15 mm, galvanized and thick layer passivated, tall design, cut to length according to customer specifications and provided with mounting holes <sup>2)</sup>		NS 35/15 UNPERF/SO/...	1208157	1			
<b>DIN rail, unperforated</b> , similar to EN 60715 - 35 x 15 mm, 1.5 mm thick, white passivated, tall design, supply length: 2 m					NS 35/15 WH UNPERF 2000MM	1204135	5
<b>DIN rail, unperforated</b> similar to EN 60715 - 35 x 15 mm, 1.5 mm thick, tin-plated, tall design, supply length: 2 m							
<b>DIN rail, unperforated</b> similar to EN 60715 - 35 x 15 mm, 1.5 mm thick, tall design, supply length: 2 m, <b>Material: copper</b>							
<b>DIN rail, unperforated</b> in accordance with EN 60715 - 35 x 15 mm, 2.3 mm thick, galvanized and thick layer passivated, tall design, for universal cut, supply length: 2 m							
Accessories		Accessories			Accessories		
for DIN rail NS35/15		NS 35/15 CAP	1206573	100	NS 35/15 CAP	1206573	100



Unperforated, zinc plated



Unperforated, copper



Unperforated, zinc plated, and thick layer passivated, material thickness 2.3 mm

**Technical data**

Steel / galvanized

**Ordering data**

Type	Order No.	Pcs. / Pkt.
NS 35/15 ZN UNPERF 2000MM	1206586	5

**Accessories**

NS 35/15 CAP	1206573	100
--------------	---------	-----

**Technical data**

Copper / uncoated

**Ordering data**

Type	Order No.	Pcs. / Pkt.
NS 35/15 CU UNPERF 2000MM	1201895	5

**Accessories**

NS 35/15 CAP	1206573	100
--------------	---------	-----

**Technical data**

Steel / galvanized, passivated with a thick layer

**Ordering data**

Type	Order No.	Pcs. / Pkt.
NS 35/15-2,3 UNPERF 2000MM	1201798	5

**Accessories**

--	--	--

## Component mounting

### NS 35 DIN rails, tall design, perforated



- The design of the DIN rails complies with European standard EN 60715
- Particular attention has been paid to a high degree of dimensional accuracy and surface tempering
- All DIN rails are also available cut to length

The DIN rails are available with various surface coatings and are suitable for the following applications:

- Zinc plated, for indoor applications
- White passivated, for indoor applications
- Zinc plated and thick layer passivated, for indoor and protected outdoor applications
- Aluminum and copper. As a result of their improved conductivity, these versions can also be used as PEN busbars

Notes:
For dimensional drawings and ordering examples, see page 519.
For PPS ... DIN rail profile cutters, see page 370.
1) Please specify the desired length in millimeters when placing your order. See order example.



Perforated, zinc plated, and thick layer passivated

General data
Material / coating

Technical data
Steel / galvanized, passivated with a thick layer

Description	Color
<b>DIN rail, perforated</b> , in acc. with EN 60715 - 35 x 15 mm, galvanized and passivated with a thick layer, tall design, supply length: 2 m	silver
<b>DIN rail, perforated</b> , according to EN 60715 - 35 x 15 mm, galvanized and thick layer passivated, tall design, supply length: 1 m	silver
<b>DIN rail, perforated</b> , in accordance with EN 60715 - 35 x 15 mm, galvanized and thick layer passivated, tall design, for cabinet width / depth of 0.8 m	silver
Length: 755 mm	silver
For cabinet width / depth of 1.0 m, supply length: 955 mm	silver
For cabinet width / depth of 1.2 m, supply length: 1155 mm	silver
<b>DIN rail, perforated</b> in accordance with EN 60715 - 35 x 15 mm, galvanized and thick layer passivated, tall design, supply length: 2 m, cut to length according to the customer specifications <sup>1)</sup>	silver
<b>DIN rail, perforated</b> , according to EN 60715 - 35 x 15 mm, white passivated, tall design, supply length: 2 m	white
<b>DIN rail, perforated</b> similar to EN 60715 - 35 x 15 mm, 1.5 mm thick, tin-plated, tall design, supply length: 2 m	silver

Ordering data		
Type	Order No.	Pcs. / Pkt.
NS 35/15 PERF 2000MM	1201730	5
NS 35/15 PERF 1000MM	1207658	20
NS 35/15 PERF 755MM	1207679	10
NS 35/15 PERF 955MM	1207682	10
NS 35/15 PERF 1155MM	1207695	10
NS 35/15 PERF/...	1208160	1



Perforated, white passivated



Perforated, zinc plated

**Technical data**

Steel / galvanized, white passivated

**Ordering data**

Type	Order No.	Pcs. / Pkt.
NS 35/15 WH PERF 2000MM	0806602	5

**Technical data**

Steel / galvanized

**Ordering data**

Type	Order No.	Pcs. / Pkt.
NS 35/15 ZN PERF 2000MM	1206599	5

## Component mounting

### NS 32 DIN rails

**Notes:**

For PPS ... DIN rail profile cutters, see page 370.



NS 32 DIN rail

**General data**

Material / coating

**Technical data**

Steel / galvanized, passivated with a thick layer

**Ordering data**

Description	Color
<b>DIN rail, unperforated</b> , in accordance with EN 60715 - G32, supply length: 2 m, galvanized and thick layer passivated	silver
<b>DIN rail, perforated</b> , in accordance with EN 60715 - G32, galvanized and thick layer passivated, supply length: 2 m	silver

Type	Order No.	Pcs. / Pkt.
NS 32 UNPERF 2000MM	1201015	5
NS 32 PERF 2000MM	1201002	5

### NS 35 DIN rails, tall design that supports the use of slide nuts

- The NS 35/15 AL DIN rail has been designed to accommodate GLM ... slide nuts
- The slide nuts even allow components without an additional snap-on foot to be mounted

**Notes:**

For dimensional drawings and ordering examples, see page 519.



NS 35, 15 mm high DIN rail with slide nut guide

**Dimensions**

[mm]

**General data**

Material

**Technical data**

Width	Length	Height
35	2000	15

Aluminum

**Ordering data**

Description	Color
<b>DIN rail, unperforated</b> similar to EN 60715 - 35 x 15 mm, deep-drawn, tall design, with slide nut guide, supply length: 2 m	silver
<b>DIN rail, unperforated</b> similar to EN 60715 - 35 x 15 mm, deep-drawn, tall design, with slide nut guide, cut to length according to customer specifications	silver
<b>Slide nut</b> , for DIN rail NS 35/15-AL, for fixing devices, <b>material: Steel</b>	
M4	silver
M5	silver
M6	silver

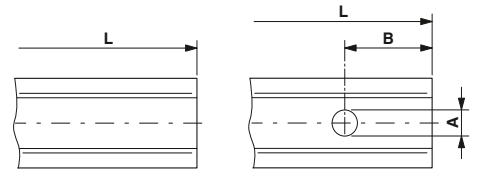
Type	Order No.	Pcs. / Pkt.
NS 35/15 AL UNPERF 2000MM	1201756	5
NS 35/15 AL UNPERF/...	1210213	1
GLM 4	1201769	100
GLM 5	1201772	100
GLM 6	1201785	100

**Example configuration for NS 35/15 UNPERF/SO/...:**

(minimum order quantity 20 units)

When ordering 20 unperforated NS 35/15 DIN rails with 6 mm  $\varnothing$  end holes at both ends (as 20 mm elongated holes, the hole center of which is 50 mm from the end of the rail) with a length of 550 mm, the following information must be given:

Item	Order No.	Length in mm	Dim. A	Dim. B	Dim. C
20	1208157	550	6	50	20

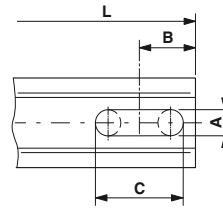


**Example configuration for NS 35/7,5 UNPERF/...:**

(minimum order quantity 20 units)

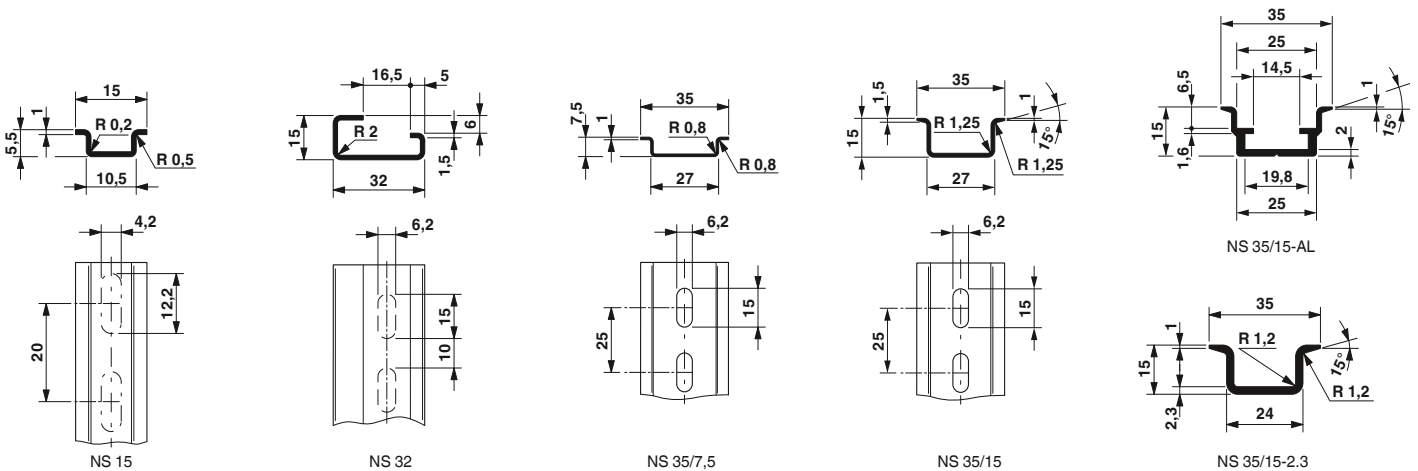
When ordering 20 unperforated NS 35/7,5 DIN rails without end holes with a length of 1750 mm, the following information must be given:

Item	Order No.	Length in mm
20	1208115	1750



L = length  
 A = hole diameter [mm]  
 B = distance between end and hole center [mm]  
 C = length of elongated hole [mm]  
 The following dimensions are possible:  
 Round hole: C = 0  
 Elongated hole: C = 10, 15, 20, or 25 mm

**Dimensional drawings for DIN rails**



# Installation and mounting material - CABINET add-on

## Component mounting

### Snap-on end bracket, for NS 15 and NS 35 DIN rails

- Phoenix Contact has engineered its CLIPFIX end brackets to maintain a secure grip on the various DIN rail systems
- Design width of just 5.2 mm
- Parking facility for bridges and connectors
- Large area for marking



End bracket for NS 15 DIN rail



End bracket for NS 35 DIN rail

Dimensions	Technical data			Technical data			
	Width	Length	Height	Width	Length	Height	
[mm]	5.2	22	22.6	5.15	48.5	35	
General data							
Material	PA			PA			
Inflammability class according to UL 94	V2			V2			
Ordering data							
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
<b>End clamp</b> , for snapping onto NS 15, 5.2 mm wide, marking with ZB 5 and ZBF 5, KLM, parking facilities for bridges and test accessories	gray	CLIPFIX 15	3022263	50	CLIPFIX 35-5	3022276	50
<b>End bracket</b> , for snapping onto NS 35, 5.15 mm wide, can be marked with ZB 5 and UCT-EM (30X5), parking option for bridges and test plugs	gray				CLIPFIX 35	3022218	50
<b>End clamp</b> , to snap on NS 35, 9.5 mm wide, can be marked with ZB 6, ZB 8/27, KLM...	gray						

### Screw-on end bracket, for NS 35 and NS 32 DIN rails

- With universal foot for NS 35 and NS 32 DIN rails
- High and low designs
- Large area for marking



For NS 35 and NS 32 DIN rails



For multi-level terminal blocks on NS 35 and NS 32 DIN rails

Dimensions	Technical data			Technical data			
	Width	Length	Height	Width	Length	Height	
[mm]	9.5	50.5	35.3	10	55.5	50	
General data							
Material	PA			PA			
Tightening torque	[Nm] 0.4 - 0.5			0.4 - 0.5			
Inflammability class according to UL 94	V2			V2			
Ordering data							
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
<b>End clamp</b> , to screw on, for NS 35 and NS 32, can be marked with ZB 6, KLM, KLM-A and UBE	gray	E/UK	1201442	50	E/UK 1	1201413	50
<b>Universal end bracket</b> , to screw on, for NS 35 and NS 32, for supporting the ends of double level and three level terminal blocks, can be marked with ZB 10	gray						



### Screw-on end bracket, for NS 15 DIN rail

The E/MBK end bracket has been specially designed for the MBK miniature IEC terminal blocks.

- Can be screwed onto NS 15 DIN rails
- Can be mounted directly on the mounting plate as an MBK terminal block base
- Large area for marking



For miniature IEC terminal blocks on NS 15 DIN rail



For NS 15 DIN rail

Dimensions		[mm]
<b>General data</b>		
Material		PA
Tightening torque	[Nm]	0.4 - 0.5
Inflammability class according to UL 94		V2
Description		Color
<b>End clamp</b> , to snap on NS 15, for slide-on miniature terminal blocks, can be fastened with a screw, can be marked with KLM 1		gray
<b>End clamp</b> , to screw on NS 15, 6.1 mm wide, can be fastened with a screw, can be marked with KLM 1		gray

Technical data			
Width	Length	Height	
6.2	22	11.4	
Ordering data			
Type	Order No.	Pcs. / Pkt.	
E/MBK	1401637	100	

Technical data			
Width	Length	Height	
6.1	21.2	18	
Material			PA
Tightening torque			0.4 - 0.5
Inflammability class according to UL 94			V2
Ordering data			
Type	Order No.	Pcs. / Pkt.	
E/MK 1	1421659	100	

### Screw-on end bracket, for NS 35 DIN rail

- The E/AL-NS 35 provides optimum support for large terminals and devices
- Large area for marking



For NS 35 DIN rail



For terminal blocks from 50 mm<sup>2</sup> on NS 35 DIN rails

Dimensions		[mm]
<b>General data</b>		
Material		PA
Tightening torque	[Nm]	0.4 - 0.5
Inflammability class according to UL 94		V2
Description		Color
<b>End clamp</b> , to screw on NS 35, can be equipped with terminal strip marker KLM-A or ZB 8		gray
<b>End bracket</b> , aluminum, for screwing on, for end support of 50 - 300 mm <sup>2</sup> terminal blocks, can be marked with ZB 10, for mounting on NS 35...		silver

Technical data			
Width	Length	Height	
9.5	48.6	32.8	
Ordering data			
Type	Order No.	Pcs. / Pkt.	
E/NS 35 N	0800886	50	

Technical data			
Width	Length	Height	
10	59	44	
Material			Aluminum
Tightening torque			0.4 - 0.5
Inflammability class according to UL 94			-
Ordering data			
Type	Order No.	Pcs. / Pkt.	
E/AL-NS 35	1201662	10	

# Installation and mounting material - CABINET add-on

## Component mounting

### Marking for terminal strips

- The KLM has been specially developed for the CLIPFIX end brackets
- The precise engagement mechanism allows infinite adjustment of the marking area height
- The KLM 3-L is suitable for multi-level terminal blocks and can be cut at two defined points



For CLIPFIX end brackets, can be marked with snap-on label

<b>Dimensions</b>	[mm]
<b>General data</b>	
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 100 [°C]
Components	Halogen-free
<b>Description</b>	<b>Color</b>
<b>Terminal strip marker</b> , adjustable height, for end clamp CLIPFIX ..., can be marked with SS-ZB	gray
Lettering field size: 20 x 8 mm	
<b>Terminal strip marker</b> , adjustable height, for end clamp CLIPFIX ..., can be marked with EML (20x8) label or with B-STIFT or X-PEN	gray
Can be cut to length	gray

Technical data		
Width	Length	Height
12.5	22	42

PA
V2
-40 ... 100
Halogen-free

Ordering data		
Type	Order No.	Pcs. / Pkt.
KLM 2	0807575	100



For CLIPFIX end brackets, can be marked with label

Technical data		
Width	Length	Height
10	22	27

PA
V2
-40 ... 100
Halogen-free

Ordering data		
Type	Order No.	Pcs. / Pkt.
KLM 3	0811969	100
KLM 3-L	0814788	100

### Marking for terminal strips



For E/MK and E/MBK end brackets

<b>General data</b>	
Material	ABS
Inflammability class according to UL 94	HB
Temperature range	-40 ... 80 [°C]
Components	Free from silicone and halogen
<b>Description</b>	<b>Color</b>
<b>Terminal strip markers</b> , for E/MK, E/MK 1 and E/MBK end bracket, lettering field: 24 x 4 mm	transparent
<b>Terminal strip markers</b> , for E/UK or CLIPFIX 35 end brackets, lettering field: 25 x 6 mm	transparent
<b>Insert strips for thermal transfer printers</b> , 5000 labels per roll	
Lettering field size: 24 x 4 mm, 5000 labels p. roll	white
Lettering field size: 25 x 6 mm, 5000 labels per roll	white

Technical data		
----------------	--	--

ABS
HB
-40 ... 80
Free from silicone and halogen

Ordering data		
Type	Order No.	Pcs. / Pkt.
KLM 1	1004319	100

Accessories		
Type	Order No.	Pcs. / Pkt.
EMT (24X4)R	0816265	1



For E/UK and CLIPFIX 35 end brackets

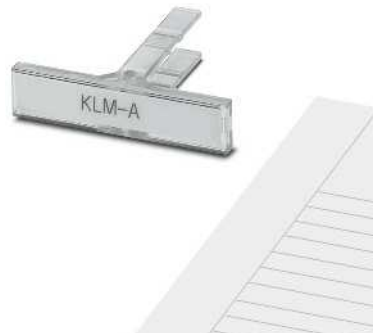
Technical data		
----------------	--	--

ABS
HB
-40 ... 80
Free from silicone and halogen

Ordering data		
Type	Order No.	Pcs. / Pkt.
KLM	1004306	100

Accessories		
Type	Order No.	Pcs. / Pkt.
EMT (25X6)R	0817264	1

Marking for terminal strips



For E/UK, E/NS 35 N, and CLIPFIX 35 end brackets



For end bracket and DIN rail mounting

General data		Technical data			Technical data		
Material		ABS		PA			
Inflammability class according to UL 94		HB		V2			
Temperature range	[°C]	-40 ... 80		-40 ... 100			
Components		Free from silicone and halogen		Free from silicone and halogen			
Description		Ordering data			Ordering data		
	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
<b>Terminal strip markers</b> , for strip marking, adjustable height, for use with end clamps E/UK, E/NS 35 N or CLIPFIX 35, lettering field: 44 x 7 mm	transparent	KLM-A	1004348	100	UBE	0800310	10
<b>Terminal strip marker carriers</b> , for marking terminal groups, for end bracket E/UK, lettering field: 40 x 17 mm Hood material: PE	gray				UBE/D	0800307	10
<b>Terminal strip marker carrier</b> , for marking terminal block groups, for assembly on NS 32... or NS 35... DIN rail, lettering field size: 40 x 17 mm Hood material: PE	gray						
Insert strip for thermal transfer printer, for terminal strip marker UBE/D or UBE		Accessories			Accessories		
Lettering field size: 40 x 17 mm, 2300 labels per roll	white				EMT (40X17)R	0817293	1
<b>Insert strip for laser printer</b> , perforated, for terminal strip marker KLM-A	white						
Lettering field size: 44 x 7 mm	white	ESL 44X7	0808244	10	ESL 40X17	0808095	10
Lettering field size: 40 x 17 mm, 1 sheet = 56 labels	white						



# Installation and mounting material - CABINET add-on

## Component mounting

### Angled brackets for fixing DIN rails

- The BG/S brackets can be used to fix DIN rails at a distance from the mounting surface
- 30° tilt angle



Angled bracket, low



Angled bracket, high

<b>Dimensions</b>	
	[mm]
<b>General data</b>	
Material	

Technical data		
Width	Length	Height
19.7	87	35.4
Steel		

Technical data		
Width	Length	Height
20	84	46
Steel		

Description	Color
<b>Angled bracket</b> , for fixing DIN rails at an angle of 30°, with M6 screw, galvanized and thick layer passivated	
	silver
<b>Angled brackets</b> , with DIN rail limit stop, for fixing DIN rails at an angle of 30°, with M6 screw, galvanized and thick layer passivated	
	silver

Ordering data		
Type	Order No.	Pcs. / Pkt.
BG/S	1201086	10
BG/SA	1201604	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
BG/SH	1201099	10
BG/SHA	1201594	10

### Flat brackets for fixing DIN rails

- The BG/F brackets can be used to fix DIN rails at a distance from the mounting surface



Flat brackets with lugs



Flat brackets without lugs

<b>Dimensions</b>	
	[mm]
<b>General data</b>	
Material	

Technical data		
Width	Length	Height
20	84	12
Steel		

Technical data		
Width	Length	Height
20	37	15
Steel		

Description	Color
<b>Flat bracket</b> , for fixing DIN rails 12 mm above the base, with M6 screw, galvanized and thick layer passivated	
	silver
<b>Flat bracket</b> , is screwed with DIN rails 15 mm above the base, fixing hole: 6.5 mm Ø, galvanized and thick layer passivated	
	silver

Ordering data		
Type	Order No.	Pcs. / Pkt.
BG/F	1201060	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
BG/F 1	1201112	10

**Universal adapter**

- The universal adapters are used to secure and hold electrical or electronic switching devices
- They allow fully insulated mounting of components or DIN rails



For NS 35 and NS 32 DIN rails

Dimensions		Technical data		
		Width	Length	Height
[mm]		10	42.6	19
General data		Ordering data		
Material		PA		
Inflammability class according to UL 94		V2		
Description	Color	Type	Order No.	Pcs. / Pkt.
<b>Universal rail adapter</b> , for NS 35... or NS 32... DIN rail, for accommodation of switching devices, 10 mm wide				
For M3 screws	gray	<b>USA 10</b>	<b>1201578</b>	10
For M5 screws	gray	<b>USA 10/4,6</b>	<b>1202713</b>	10

**Mounting accessories**

- The support bracket can be used for totally insulated DIN rail support
- The NS 35/... CAP end caps can be attached to the ends of NS 35/7,5 and NS 35/15 DIN rails



Support bracket, insulated

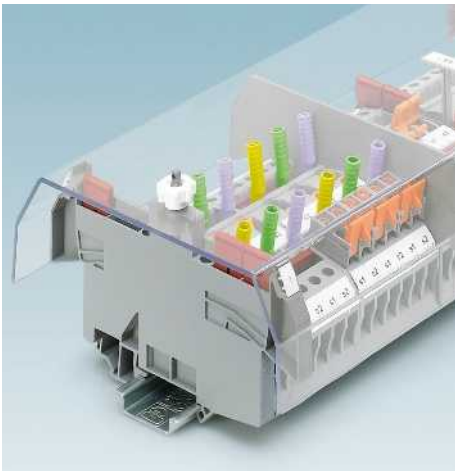


Protective caps for DIN rails

Dimensions		Technical data			Technical data		
		Width	Length	Height	Width	Length	Height
[mm]		38	35	21	7	37.5	9
General data		Ordering data			Ordering data		
Material		PA			PP		
Inflammability class according to UL 94		V2			HB		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
<b>Support bracket</b> , for fixing DIN rails 21 mm above the mounting surface, with M6 screw, countersunk fixing hole 6.1 mm Ø, can also be used for protective insulation of terminal strips							
<b>DIN rail end piece</b>	gray	<b>AB/NS</b>	<b>1201141</b>	10			
for DIN rail NS35/7.5	gray				<b>NS 35/ 7,5 CAP</b>	<b>1206560</b>	100
for DIN rail NS35/15	gray				<b>NS 35/15 CAP</b>	<b>1206573</b>	100

## Component mounting

### Cover profiles



- Cover profiles provide protection against unauthorized use of terminal strips
- This profile has been specially adapted to the contour of the measuring transducer disconnect terminal blocks
- The cover can be securely snapped onto the corresponding APH–ME end brackets and sealed as an option
- The AH-ME cover, which is enclosed on all sides, is snapped onto the end brackets and can be optionally sealed



Cover profile and hood, sealable

General data	
Material	PVC
Temperature range	-15 ... 65 [°C]
Description	
Color	transparent
Cover profile, supply length 1 m	
Cover profile, please specify the desired length in cm	
Covering hood, for the contact and dust-protected encapsulation of the components	
Color	
transparent	

Technical data		
Ordering data		
Type	Order No.	Pcs. / Pkt.
AP-ME METER	3034361	10
AP-ME CM	3034345	1
AH-ME	3240265	5

### Holder for AP–ME cover profiles

- The APH–ME end bracket is used in conjunction with the AP–ME cover
- It provides facilities for retaining FBS ...–8 plug-in bridges and is optionally sealable
- The APT–ME holder serves as a partition plate or intermediate support in the case of long terminal strips



Cover profile end bracket, sealable



Cover profile holder

General data	
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 115 [°C]

Technical data		
Ordering data		
Type	Order No.	Pcs. / Pkt.
APH-ME	3034374	10

Technical data		
Ordering data		
Type	Order No.	Pcs. / Pkt.
APT-ME	3034358	10

Description	Color
End bracket, for AP-ME cover profile	gray
Holder, for AP-ME cover profile	gray

Cover profiles

- Cover profiles provide protection against unauthorized use of terminal strips
- Large-area marking possible with AP-ES insert strips



Cover profile mounting on a DIN rail



Cover profile for mounting on end bracket

**Notes:**  
 1) When ordering please specify the desired length in cm. Accuracy 1 mm.

Technical data	
Material	PVC
Inflammability class according to UL 94	V2
Temperature range	-15 ... 65 [°C]

Ordering data		
Type	Order No.	Pcs. / Pkt.
<b>AP 2 CM</b>	5022889	1
<b>AP 3 CM</b>	5022876	1
<b>AP 2-TU</b>	5022630	50
<b>AP 3-TU</b>	5022656	50
<b>AP 3-TNS 35</b>	5022672	10

Technical data	
Material	Polycarbonate PC
Inflammability class according to UL 94	V2
Temperature range	-40 ... 115

Ordering data		
Type	Order No.	Pcs. / Pkt.
<b>A/U CM</b>	5021110	1
<b>VAH</b>	1201468	10

Accessories		
Type	Order No.	Pcs. / Pkt.
<b>AP-ES</b>	5022685	10

Accessories		
Type	Order No.	Pcs. / Pkt.

General data	
Material	PVC
Inflammability class according to UL 94	V2
Temperature range	-15 ... 65 [°C]
Description	Color
<b>Cover profile</b> , for terminal strips, can be marked with insert strips AP-ES, a cover profile carrier should be placed at the ends and at intervals of approx. 40 cm, maximum supply length: 1 m <sup>1)</sup>	
Can be snapped onto cover profile carrier AP 2-TU	transparent
Can be snapped onto AP 3-TU or AP 3-TNS 35	transparent
<b>Cover profile carrier</b> , for mounting on NS 32 or NS 35/7.5 DIN rail, for fixing the cover profile AP, 2 mm thick, material: PA	gray
	gray
<b>Sealable cover profile</b> , for mounting on NS 35 DIN rail, for fixing the cover profile AP 3, with plastic knurled nut M5, space requirement: 13 mm	gray
<b>U-shaped cover</b> , Inner dimensions: 100 x 38 mm, 2 mm thick, maximum supply length: 2.05 m, also required: 2 end brackets E/UK and 2 cover holders VAH, made acc. to length specifications <sup>1)</sup>	transparent
<b>Adjustable cover holder</b> , for mounting covers (up to 3 mm thick), additional requirements: One end bracket E/UK or CLIPFIX 35, material PA	gray
<b>Insert strips</b> , for group marking, for sliding into the cover profile AP 2 and AP 3, cardboard, lettering field: 35 x 500 mm	white

## Component mounting

### Cover profiles for UK terminal blocks



- Covering of live parts
- Protection against accidental actuation of terminal points or disconnect terminal blocks
- Protection against environmental influences
- Can be marked



Single cover for UK terminal blocks

General data	
Material	ABS
Inflammability class according to UL 94	HB
Temperature range	-40 ... 80 [°C]
Components	Free from silicone and halogen

Technical data		

Description	Color
<b>Single cover</b> , for covering the UK 2,5 neutral terminal, snap fit	transparent
<b>Single cover</b> , for covering the UK 3 N, UK 5 N, UK 6 N, UK 4-FSR, UK 4FS/FS,UK 4-LOER terminals, snap fit	transparent
<b>Single cover</b> , for covering the UK 16 neutral terminal, snap fit	transparent
<b>Single cover</b> , for covering the UK 3 N, UK 5 N, UK 6 N, UK 4-FSR, UK 4FS/FS,UK 4-LOER terminals, snap fit, black print: Lightning flash	transparent
<b>Single cover</b> , for covering the UK 35, UIK 35 terminal, cannot be marked, snap fit	yellow
	transparent

Ordering data		
Type	Order No.	Pcs. / Pkt.
EA 4	0805360	50
EA 5	1024014	100
EA 7	1024250	100
EA 5-WS	1024085	100
EA 11	1024263	50



**Cover profiles**

- Covering of live parts
- Protection against accidental actuation of terminal points or disconnect terminal blocks
- Protection against environmental influences
- Can be marked



Cover profile, hinged for DIN rail mounting

General data	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Components	

Technical data	
Material	Polycarbonate PC
Inflammability class according to UL 94	V2
Temperature range	-40 ... 115
Components	Free from silicone and halogen

Description	Color
<b>Holding profile</b> , is snapped into the cover holder APK-TU, with groove for Zack marker strip <b>ZB 5</b> up to <b>ZB 10</b> , length: 2 m	transparent
<b>Holding profile</b> , is snapped into the cover holder APK-TU, with groove for Zack marker strip <b>ZB 5</b> up to <b>ZB 10</b> , length: 2 m	gray
<b>Cover profile holder</b> , 10 mm width, for mounting on NS 32 or NS 35/7.5, for fixing the holding profile APK-HP, can be marked with Zack marker strip <b>ZB 10</b> , Material: PA	gray

Ordering data		
Type	Order No.	Pcs. / Pkt.
APK 1	5022795	10
APK-HP 2 METER	5022818	2
APK-TU	5022805	10

## Busbars

### Neutral busbar



3 x 10 mm



6 x 6 mm

<b>Dimensions</b>	[mm]
<b>General data</b>	
Material	Copper

<b>Description</b>	<b>Color</b>
<b>PEN conductor busbar</b> , 3 x 10 mm, 1 m long, material: Copper, tin-plated, nominal current: 140 A	silver
<b>PEN conductor busbar</b> , in accordance with DIN VDE 0611-4, 6 x 6 mm, 1 m long, material: Copper, tin-plated, nominal current: 140 A	silver

Technical data		
Width	Length	Height
10	1000	3

Ordering data		
Type	Order No.	Pcs. / Pkt.
NLS-CU 3/10 SN 1000MM	0402174	10

Technical data		
Width	Length	Height
6	1000	6

Ordering data		
Type	Order No.	Pcs. / Pkt.
NLS-CU 6/ 6 SN 1000MM	0402161	10

### Supports for neutral busbars

There is a choice of three support frames available as support for busbars:

- The AB/SS for one rail
- The AB 2/SS for offset arrangement of neutral and (PE) busbars
- The lower ABN 2/SS

**Notes:**  
For dimensional drawings, see phoenixcontact.net/products



Support bracket for shield conn. terminal blocks SK



Support bracket, multi-level, insulated

<b>Dimensions</b>	[mm]
<b>General data</b>	
Material	PA
Inflammability class according to UL 94	V0

<b>Description</b>	<b>Color</b>
<b>Support bracket</b> , insulated, with retaining screw, for 3 x 10 mm or 6 x 6 mm busbars	gray
<b>Double support bracket</b> , insulating material, optionally for use with 3 x 10 mm or 6 x 6 mm neutral busbar, height: 48 mm	gray
Height 48 mm	gray
Height 36.8 mm	gray
<b>Triple support bracket</b> , made from isolation material	gray

Technical data		
Width	Length	Height
19.4	23.4	21.7

Ordering data		
Type	Order No.	Pcs. / Pkt.
AB/SS	0404428	10

Technical data		
Width	Length	Height
10	42	48

Ordering data		
Type	Order No.	Pcs. / Pkt.
AB2/SS	0404431	10
ABN 2/SS	0404460	10
AB3/SS	0800086	10

Power terminals



10 (16) mm<sup>2</sup>, 76 A, power terminal



35 (35) mm<sup>2</sup>, 125 A, power terminal

<b>Dimensions</b>	[mm]
<b>Max. electrical data</b>	
<b>Rated data</b>	
Nominal current / cross section	[A] / [mm <sup>2</sup> ]
<b>Connection capacity</b>	
1 conductor	[mm <sup>2</sup> ]
2 conductors (of the same type)	[mm <sup>2</sup> ]
<b>General data</b>	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]

Technical data				
Width	Length	Height		
8	40	36		
<b>I<sub>max</sub> [A]</b>	<b>max. Ø [mm<sup>2</sup>]</b>		<b>AWG (UL)</b>	
76	0.5 - 16		-	
<b>IEC</b>	<b>UL</b>	<b>CSA</b>	<b>IEC/ EN 60079-7</b>	
57 / 10	-	-	-	
<b>Connection capacity</b>	solid	stranded	ferrule	
	without/with plastic sleeve			
1 conductor	0.5 - 16	0.5 - 10	0.5 - 16	0.5 - 10
2 conductors (of the same type)	0.5 - 10	0.5 - 10	0.5 - 10	-
<b>General data</b>				
Stripping length	14			
Screw thread	M5			
Tightening torque	2.5 - 3			

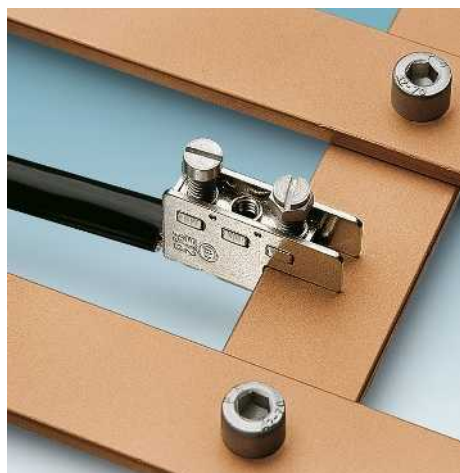
<b>Description</b>	<b>Color</b>
Power terminal, copper, nickel-plated	aluminum

Ordering data			
Type	I <sub>max</sub>	Order No.	Pcs. / Pkt.
EK 116		0401010	10

Technical data				
Width	Length	Height		
12	40	37		
<b>I<sub>max</sub> [A]</b>	<b>max. Ø [mm<sup>2</sup>]</b>		<b>AWG (UL)</b>	
125	0.75 - 35		-	
<b>IEC</b>	<b>UL</b>	<b>CSA</b>	<b>IEC/ EN 60079-7</b>	
125 / 35	-	-	95 / 25	
<b>Connection capacity</b>	solid	stranded	ferrule	
	without/with plastic sleeve			
0.75 - 35	0.75 - 35	0.75 - 35	0.75 - 35	
0.75 - 10	0.75 - 10	0.75 - 10	-	
<b>General data</b>				
Stripping length	14			
Screw thread	M6			
Tightening torque	3.2 - 3.7			

Ordering data			
Type	I <sub>max</sub>	Order No.	Pcs. / Pkt.
EK 135		0401023	10

Branch Terminals



- A branch of flat copper busbars often has to be produced in switch systems
- This can be done easily with the branch terminal block because the terminal block can be attached and firmly clamped anywhere on a copper rail (up to max. 5 mm thick) later on



35 (35) mm<sup>2</sup>, 125 A, branch terminal

<b>Dimensions</b>	[mm]
<b>Max. electrical data</b>	
<b>Rated data</b>	
Nominal current / cross section	[A] / [mm <sup>2</sup> ]
<b>Connection capacity</b>	
1 conductor	[mm <sup>2</sup> ]
2 conductors (of the same type)	[mm <sup>2</sup> ]
<b>General data</b>	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]

<b>Description</b>	<b>Color</b>
Branch terminal block, for connection to copper bars up to 5 mm thick	aluminum

Technical data				
Width	Length	Height		
12	40	36		
<b>I<sub>max</sub> [A]</b>	<b>max. Ø [mm<sup>2</sup>]</b>		<b>AWG (UL)</b>	
125	0.75 - 35		-	
<b>IEC</b>	<b>UL</b>	<b>CSA</b>	<b>IEC/ EN 60079-7</b>	
125 / 35	-	-	-	
<b>Connection capacity</b>	solid	stranded	ferrule	
	without/with plastic sleeve			
0.75 - 35	0.75 - 35	0.75 - 35	0.75 - 35	
0.75 - 10	0.75 - 10	0.75 - 10	-	
<b>General data</b>				
Stripping length	15			
Screw thread	M6			
Tightening torque	3.2 - 3.7			

Ordering data			
Type	I <sub>max</sub>	Order No.	Pcs. / Pkt.
AZK 35		0702997	10

## Busbars

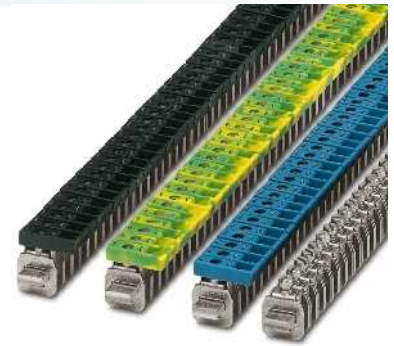
### L/N/PE connection terminal blocks



– In electrical systems subject to the setup requirements of DIN VDE 0100 or IEC 60204-1 / EN 60204-1 / VDE 0113-1, N, PE or phase conductor L are often connected to central busbars. This requires the conductor and/or terminal block to be clearly marked for the corresponding circuit.

The connection terminal blocks satisfy these requirements in several ways:

- Through individual marking of each terminal block
- By their blue, green-yellow or black colored housings
- Large marking possible with ZB, UC-TM, UCT-TM



4 (6) mm<sup>2</sup>, 41 A, connection terminal blocks

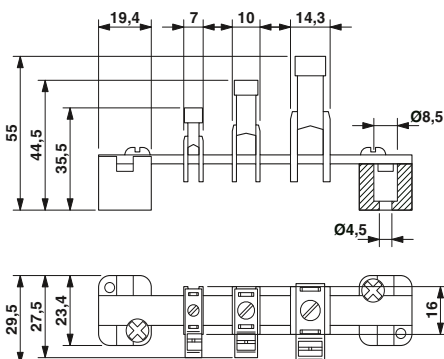


Dimensions	
	[mm]
Max. electrical data	
$I_{max}$ [A]	41
Rated data	
Rated voltage [V]	300
Nominal current / cross section [A] / [mm <sup>2</sup> ]	41 / 4
Rated cross section [mm <sup>2</sup> ]	4
Cross section range AWG	20 - 10
Connection capacity	
1 conductor [mm <sup>2</sup> ]	0.5 - 6
2 conductors (of the same type) [mm <sup>2</sup> ]	0.5 - 2.5
2 stranded conductors with a TWIN ferrule [mm <sup>2</sup> ]	-
General data	
Stripping length [mm]	16
Screw thread	M4
Tightening torque [Nm]	1.5 - 1.8
Insulating material	PA
Inflammability class according to UL 94	V2

Technical data				
Width	Length	Height		
7	23.7	23.6		
$I_{max}$ [A]	$U_{max}$ [V]	max. Ø [mm <sup>2</sup> ]	AWG (UL)	
41	300	0.5 - 6	22-12	
IEC	UL	CSA	IEC/EN 60079-7	
300	300	-	-	
41 / 4	20 / -	-	-	
4	-	-	-	
20 - 10	22-12	-	-	
Connection capacity		ferrule		
		without/with plastic sleeve		
0.5 - 6	0.5 - 4	0.5 - 6	0.5 - 6	
0.5 - 2.5	0.5 - 2.5	0.5 - 2.5	-	
-	-	-	0.5 - 2.5	

Description	Color
<b>Connection terminal block</b> , steel, pushed onto NLS neutral busbar, can be marked with ZB ...	black
Up to 6 mm <sup>2</sup> solid, 7 mm wide	green-yellow
Up to 6 mm <sup>2</sup> solid, 7 mm wide	blue
Without insulating cap	silver
<b>Connection terminal block</b> , steel, pushed onto NLS neutral busbar, can be marked with ZB ...	black
Up to 16 mm <sup>2</sup> solid, 10 mm wide	green-yellow
Up to 16 mm <sup>2</sup> solid, 10 mm wide	blue
Without insulating cap	silver
<b>Connection terminal block</b> , steel, pushed onto NLS neutral busbar, can be marked with ZB ...	black
Up to 35 mm <sup>2</sup> solid, 14.3 mm wide	green-yellow
Up to 35 mm <sup>2</sup> solid, 14.3 mm wide	blue
Without insulating cap	silver

Ordering data			
Type	$I_{max}$	Order No.	Pcs. / Pkt.
<b>AKG 4 BK</b>		0421032	50
<b>AKG 4 GNYE</b>		0421029	50
<b>AKG 4 BU</b>		0421016	50
<b>AK 4</b>		0404017	50





16 (16) mm<sup>2</sup>, 76 A, connection terminal blocks



35 (35) mm<sup>2</sup>, 125 A, connection terminal blocks



**Technical data**

Width	Length	Height	
9.8	23.7	29	
I <sub>max</sub> [A]	U <sub>max</sub> [V]	max. Ø [mm <sup>2</sup> ]	AWG (UL)
76	300	1.5 - 16	18-6
IEC	UL	CSA	IEC/ EN 60079-7
300	300	-	-
76 / 16	50 / -	65 / -	-
16	-	-	-
16 - 6	18-6	18-6	-
solid	stranded	ferrule without/with plastic sleeve	
1.5 - 16	1.5 - 16	1.5 - 16	1.5 - 16
1.5 - 6	1.5 - 6	1.5 - 6	-
-	-	-	1.5 - 10

16  
M5  
2.5 - 3  
PA  
V2

**Technical data**

Width	Length	Height	
14.3	27	39	
I <sub>max</sub> [A]	U <sub>max</sub> [V]	max. Ø [mm <sup>2</sup> ]	AWG (UL)
125	300	2.5 - 35	18-2
IEC / EN	UL	CSA	IEC/ EN 60079-7
300	300	-	-
125 / 35	115 / -	135 / -	-
35	-	-	-
14 - 2	18-2	18-2	-
solid	stranded	ferrule without/with plastic sleeve	
2.5 - 35	2.5 - 35	2.5 - 35	2.5 - 35
1.5 - 16	1.5 - 16	1.5 - 16	-
-	-	-	1.5 - 10

16  
M6  
3.2 - 3.7  
PA  
V2

**Ordering data**

Type	I <sub>max</sub>	Order No.	Pcs. / Pkt.
AKG 16 BK		0423030	50
AKG 16 GNYE		0423027	50
AKG 16 BU		0423014	50
AK 16		0404033	50

**Ordering data**

Type	I <sub>max</sub>	Order No.	Pcs. / Pkt.
AKG 35 BK		0424039	50
AKG 35 GNYE		0424026	50
AKG 35 BU		0424013	50
AK 35		0404046	50

## Connection terminal blocks and sockets

### Europe connectors

**Notes:**  
For more variants, see [phoenixcontact.net/products](http://phoenixcontact.net/products).



- The Europe connectors for conductors with a cross section of up to 16 mm<sup>2</sup> feature wire protection
- Particularly suitable for finely stranded conductors, including those without ferrules
- Insulating housing made from halogen-free polyamide
- High-quality metal parts with corrosion-resistant surfaces
- Secure fixing in housing



2.5 (2.5) mm<sup>2</sup>, 24 A, 12-pos.



Dimensions	
	[mm]
Max. electrical data	
Rated data	
Rated voltage	[V]
Nominal current / cross section	[A] / [mm <sup>2</sup> ]
Rated cross section	[mm <sup>2</sup> ]
Cross section range	AWG
Connection capacity	
1 conductor	[mm <sup>2</sup> ]
2 conductors (of the same type)	[mm <sup>2</sup> ]
2 stranded conductors with a TWIN ferrule	[mm <sup>2</sup> ]
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Insulating material	
Inflammability class according to UL 94	

Technical data				
Width	Length	Height		
16.2	93.6	13.4		
I <sub>max.</sub> [A]	U <sub>max.</sub> [V]	max. Ø [mm <sup>2</sup> ]	AWG (UL)	
24	450	0.5 - 2.5	22-12	
IEC	UL	CSA	IEC/EN 60079-7	
450	300	-	-	
24 / 2.5	20 / -	-	-	
2.5	-	-	-	
20 - 14	22-12	-	-	
Connection capacity		ferrule		
	solid	stranded	without/with plastic sleeve	
0.5 - 2.5	0.5 - 2.5	0.5 - 1.5	0.5 - 1	
0.5 - 0.75	0.5 - 0.75	-	-	
-	-	-	0.5	

Description	Color
Europe connector, 12-pos., with wire protection	transparent

Ordering data		
Type	Order No.	Pcs. / Pkt.
EC 2,5 P TR	3240167	10



4 (4) mm<sup>2</sup>, 32 A, 12-pos.



6 (6) mm<sup>2</sup>, 41 A, 12-pos.



16 (16) mm<sup>2</sup>, 76 A, 12-pos.



Technical data			
Width	Length	Height	
18.6	117	15	
I <sub>max</sub> [A]	U <sub>max</sub> [V]	max. Ø [mm <sup>2</sup> ]	AWG (UL)
32	450	0.75 - 4	20-10
IEC	UL	CSA	IEC/ EN 60079-7
450	300	-	-
32 / 4	30 / -	-	-
4	-	-	-
18 - 12	20-10	-	-
solid	stranded	ferrule without/with plastic sleeve	
0.75 - 4	0.75 - 4	0.5 - 2.5	0.5 - 2.5
0.75 - 1.5	0.75 - 1	0.5 - 1	-
-	-	-	0.5 - 1
6	M3	0.5 - 0.6	PA
			V2

Technical data			
Width	Length	Height	
22.2	132.7	17.3	
I <sub>max</sub> [A]	U <sub>max</sub> [V]	max. Ø [mm <sup>2</sup> ]	AWG (UL)
41	450	1 - 6	14-8
IEC	UL	CSA	IEC/ EN 60079-7
450	300	-	-
41 / 6	50 / -	-	-
6	-	-	-
16 - 10	14-8	-	-
solid	stranded	ferrule without/with plastic sleeve	
1 - 6	1 - 6	0.75 - 4	0.75 - 4
0.75 - 2.5	0.75 - 1.5	0.75 - 1.5	-
-	-	-	0.5 - 1
7	M3,5	0.8 - 1	PA
			V2

Technical data			
Width	Length	Height	
25.2	173.9	20.8	
I <sub>max</sub> [A]	U <sub>max</sub> [V]	max. Ø [mm <sup>2</sup> ]	AWG (UL)
76	450	6 - 16	10-6
IEC	UL	CSA	IEC/ EN 60079-7
450	300	-	-
76 / 16	55 / -	-	-
16	-	-	-
10 - 6	10-6	-	-
solid	stranded	ferrule without/with plastic sleeve	
6 - 16	6 - 16	1.5 - 10	1.5 - 10
1.5 - 4	2.5 - 4	1.5 - 2.5	-
-	-	-	0.75 - 2.5
8	M4	1.2 - 1.5	PA
			V2

Ordering data		
Type	Order No.	Pcs. / Pkt.
EC 4 P TR	3240171	10

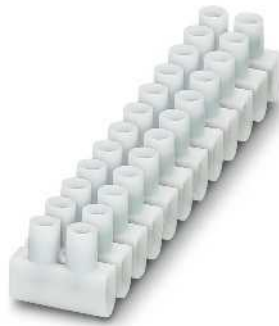
Ordering data		
Type	Order No.	Pcs. / Pkt.
EC 6 P TR	3240175	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
EC 16 P TR	3240182	10

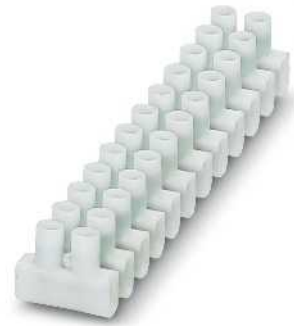
## Connection terminal blocks and sockets

### Europe connectors

- These Europe connectors are suitable for solid and stranded conductors with a max. cr. sect. of 25 mm<sup>2</sup>
- The prismatic clamping part facilitates conductor entry and secure contact can be established even in the case of conductors without ferrules
- The polypropylene insulating housing allows individual positions to be disconnected simply by twisting and without the need for tools
- The high-quality metal parts, which feature corrosion-resistant surfaces, are fixed securely in the housing



4 (4) mm<sup>2</sup>, 32 A, 12-pos.



6 (6) mm<sup>2</sup>, 41 A, 12-pos.

ERC

#### Technical data

Dimensions		Width	Length	Height					
		16.6	94.9	13					
[mm]									
Max. electrical data		I <sub>max.</sub> [A]	U <sub>max.</sub> [V]	max. Ø [mm <sup>2</sup> ]	AWG (UL)				
		32	450	0.5 - 4	-				
Rated data		IEC	UL	CSA	IEC/EN 60079-7				
Rated voltage	[V]	450	-	-	-				
Nominal current / cross section	[A] / [mm <sup>2</sup> ]	32 / 4	-	-	-				
Rated cross section	[mm <sup>2</sup> ]	4	-	-	-				
Cross section range	AWG	20 - 12	-	-	-				
Connection capacity		solid		stranded		ferrule			
						without/with plastic sleeve			
1 conductor	[mm <sup>2</sup> ]	0.5 - 4	0.5 - 4	0.75 - 2.5	0.75 - 2.5				
2 conductors (of the same type)	[mm <sup>2</sup> ]	0.5 - 1	- 1	-	-				
2 stranded conductors with a TWIN ferrule	[mm <sup>2</sup> ]	-	-	-	0.5				
General data									
Stripping length	[mm]	5							
Screw thread		M2,6							
Tightening torque	[Nm]	0.4 - 0.5							
Insulating material		PP							

ERC

#### Technical data

Dimensions		Width	Length	Height					
		18.9	116.5	14.9					
[mm]									
Max. electrical data		I <sub>max.</sub> [A]	U <sub>max.</sub> [V]	max. Ø [mm <sup>2</sup> ]	AWG (UL)				
		41	450	0.75 - 6	-				
Rated data		IEC	UL	CSA	IEC/EN 60079-7				
Rated voltage	[V]	450	-	-	-				
Nominal current / cross section	[A] / [mm <sup>2</sup> ]	41 / 6	-	-	-				
Rated cross section	[mm <sup>2</sup> ]	6	-	-	-				
Cross section range	AWG	18 - 10	-	-	-				
Connection capacity		solid		stranded		ferrule			
						without/with plastic sleeve			
1 conductor	[mm <sup>2</sup> ]	0.75 - 6	0.75 - 6	0.75 - 4	0.75 - 2.5				
2 conductors (of the same type)	[mm <sup>2</sup> ]	0.75 - 1.5	0.75 - 1.5	0.5 - 1	-				
2 stranded conductors with a TWIN ferrule	[mm <sup>2</sup> ]	-	-	-	0.5 - 1				
General data									
Stripping length	[mm]	6							
Screw thread		M3							
Tightening torque	[Nm]	0.5 - 0.6							
Insulating material		PP							

#### Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
		Europe connector, 12-pos.	white	EC 4
	black	EC 4 BK	3240169	10

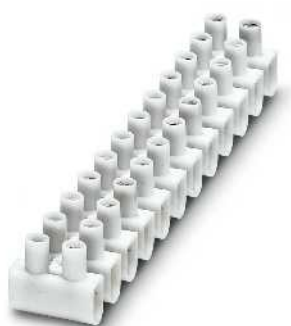
#### Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
		Europe connector, 12-pos.	white	EC 6
	black	EC 6 BK	3240173	10

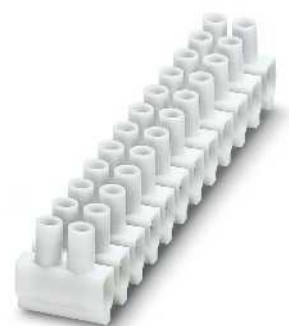




10 (10) mm<sup>2</sup>, 57 A, 12-pos.



16 (16) mm<sup>2</sup>, 76 A, 12-pos.



25 (25) mm<sup>2</sup>, 101 A, 12-pos.

ERC

ERC

ERC

Technical data			
Width	Length	Height	
17.3	133.8	23.4	
$I_{max}$ [A]	$U_{max}$ [V]	max. Ø [mm <sup>2</sup> ]	AWG (UL)
57	450	1 - 10	-
IEC	UL	CSA	IEC/EN 60079-7
450	-	-	-
57 / 10	-	-	-
10	-	-	-
16 - 8	-	-	-
solid	stranded	ferrule without/with plastic sleeve	
1 - 10	1 - 10	1.5 - 6	1.5 - 4
1 - 2.5	1.5 - 2.5	0.75 - 1.5	-
-	-	-	0.5 - 1.5
7			
M3,5			
0.8 - 1			
PP			

Technical data			
Width	Length	Height	
20.7	174.5	25	
$I_{max}$ [A]	$U_{max}$ [V]	max. Ø [mm <sup>2</sup> ]	AWG (UL)
76	450	1.5 - 16	-
IEC	UL	CSA	IEC/EN 60079-7
450	-	-	-
76 / 16	-	-	-
16	-	-	-
14 - 6	-	-	-
solid	stranded	ferrule without/with plastic sleeve	
1.5 - 16	2.5 - 16	2.5 - 10	2.5 - 10
2.5 - 4	2.5 - 4	1.5 - 2.5	-
-	-	-	1 - 4
8			
M4			
1.2 - 1.5			
PP			

Technical data			
Width	Length	Height	
30	187.3	28	
$I_{max}$ [A]	$U_{max}$ [V]	max. Ø [mm <sup>2</sup> ]	AWG (UL)
101	750	10 - 25	-
IEC	UL	CSA	IEC/EN 60079-7
750	-	-	-
101 / 25	-	-	-
25	-	-	-
8 - 4	-	-	-
solid	stranded	ferrule without/with plastic sleeve	
10 - 25	10 - 25	4 - 16	4 - 10
4 - 6	4 - 6	2.5 - 4	-
-	-	-	1.5 - 6
9			
M5			
2 - 3			
PP			

Ordering data		
Type	Order No.	Pcs. / Pkt.
EC 10	3240176	10
EC 10 BK	3240177	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
EC 16	3240179	10
EC 16 BK	3240180	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
EC 25	3240183	10
EC 25 BK	3240184	10

### Junction box connectors



- Thanks to their push-in connection method, the three junction box connectors available from Phoenix Contact enable wiring to be installed under the tightest of conditions without the need for tools
- Solid single-strand conductors with a cross section range of 0.5 mm<sup>2</sup> to 2.5 mm<sup>2</sup> can be connected
- Solid multi-strand conductors (7 litz wires) with a cross section range of 1.5 mm<sup>2</sup> to 2.5 mm<sup>2</sup> can be safely connected
- Different cross sections can be wired together in a junction box connector
- The transparent housing makes it easier to carry out a visual inspection of the terminal points, thereby increasing the safety of the wiring
- Integrated test openings enable the use of test devices once wiring has been completed



2.5 (2.5) mm<sup>2</sup>, 24 A, 3-pos.

ERIC

Dimensions	
	[mm]
Max. electrical data	
Rated data	
Rated voltage	[V]
Nominal current / cross section	[A] / [mm <sup>2</sup> ]
Rated cross section	[mm <sup>2</sup> ]
Cross section range	AWG
Connection capacity	
1 conductor	[mm <sup>2</sup> ]
General data	
Stripping length	[mm]
Insulating material	
Inflammability class according to UL 94	

Technical data			
Width	Length	Height	
17.2	15.6	8.9	
I <sub>max</sub> [A]	U <sub>max</sub> [V]	max. Ø [mm <sup>2</sup> ]	AWG (UL)
24	450	0.5 - 2.5	-
IEC	UL	CSA	IEC/EN 60079-7
450	-	-	-
24 / 2.5	-	-	-
2.5	-	-	-
20 - 14	-	-	-
Connection capacity		ferrule	
solid	stranded	without/with plastic sleeve	
1 conductor	[mm <sup>2</sup> ]		
0.5 - 2.5	1.5 - 2.5	-	-
Ordering data			
Type	Order No.	Pcs. / Pkt.	
JBC 2,5/3	3240164	100	

Description	Color
Plug-in terminal block, 3-pos.	transparent
5-pos.	transparent
8-pos.	transparent



2.5 (2.5) mm<sup>2</sup>, 24 A, 5-pos.



2.5 (2.5) mm<sup>2</sup>, 24 A, 8-pos.

ERIC

ERIC

Technical data			
Width	Length	Height	
<b>26</b>	<b>15.6</b>	<b>8.9</b>	
$I_{max}$ [A]	$U_{max}$ [V]	max. Ø [mm <sup>2</sup> ]	AWG (UL)
<b>24</b>	<b>450</b>	<b>0.5 - 2.5</b>	-
IEC	UL	CSA	IEC/ EN 60079-7
450	-	-	-
24 / 2.5	-	-	-
2.5	-	-	-
20 - 14	-	-	-
solid	stranded	ferrule without/with plastic sleeve	
0.5 - 2.5	1.5 - 2.5	-	-
8			
PC/PA			
V2			

Technical data			
Width	Length	Height	
<b>39.2</b>	<b>15.6</b>	<b>8.9</b>	
$I_{max}$ [A]	$U_{max}$ [V]	max. Ø [mm <sup>2</sup> ]	AWG (UL)
<b>24</b>	<b>450</b>	<b>0.5 - 2.5</b>	-
IEC	UL	CSA	IEC/ EN 60079-7
450	-	-	-
24 / 2.5	-	-	-
2.5	-	-	-
20 - 14	-	-	-
solid	stranded	ferrule without/with plastic sleeve	
0.5 - 2.5	1.5 - 2.5	-	-
8			
PC/PA			
V2			

Ordering data		
Type	Order No.	Pcs. / Pkt.
JBC 2,5/5	3240165	100

Ordering data		
Type	Order No.	Pcs. / Pkt.
JBC 2,5/8	3240166	50

## Connection terminal blocks and sockets

### Sockets with 45 mm standard pitch



It is equally important in modern switchgears as in simple distributions: the rail-mountable socket in standard format.

The socket is mounted in an exposed position to allow mounting tools, service devices and other electrical equipment to be installed comfortably.

The mains connecting terminal blocks (L1, N and PE) are arranged on one side of the socket for easy connection. All SD sockets are supplied with equipment marker tags. Additional equipment marker tags are available for the EMG housings.

The 45 mm socket is available with or without a miniature fuse. There is a 6.3 A fine fuse (5 x 20 mm) for protection.

System parts, in which items are still live even after the main switch has been turned off, must be marked in accordance with DIN VDE 0105-1 and IEC 60204-1/EN 60204-1/DIN VDE 0113-1 as well as the Accident Prevention Regulation VBG 4. In this case, a socket version in a yellow housing is available.

The sockets with a 45 mm standard pitch and with 90 mm double housings can be quickly snapped onto the 35 mm DIN rail in accordance with EN 60715.

For the sockets, you can choose between the following versions:

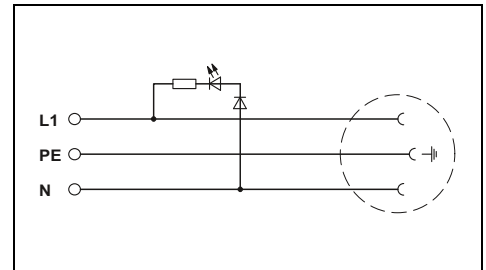
- Screw or Spring-Cage Connection
- with or without light indicator
- Grounding connector, Belgian, French or USA version
- Housing: green, yellow or light gray

**With the VS-SI-SD... socket inserts, the sockets can be integrated into the IP65 VS-SI-EB-EMV-1 mounting frame, for example. For further information, visit [phoenixcontact.net/products](http://phoenixcontact.net/products).**

Notes:
Type of housing: SD-... Polyamide non-reinforced PA EMG...-SD: polycarbonate fiber reinforced PCF EM-DUO... PVC 94 V0 Socket insert Aminoplast type 131
For approvals and dimensional drawing, visit <a href="http://phoenixcontact.net/products">phoenixcontact.net/products</a>



Germany



### Technical data

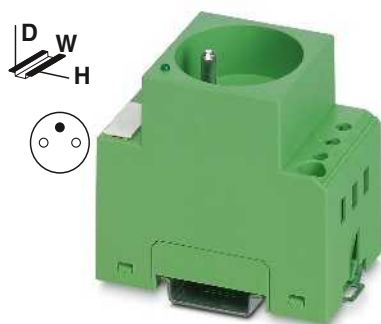
Nominal voltage	250 V AC	
Max. continuous current	16 A	
General data	SD-D... and EMG 45...	EMG 90...
Dimensions	45 mm / 75 mm / 65.2 mm	90 mm / 75 mm / 70.5 mm
Connection data solid / stranded / AWG	0.2 - 4 mm <sup>2</sup> / 0.2 - 2.5 mm <sup>2</sup> / 24 - 12	
Standards/regulations	IP20	
Contact material	CuZn37	
Ambient temperature range	-20°C ... 60°C	
Standards/regulations	IEC 83 , DIN 49440-1	

### Ordering data

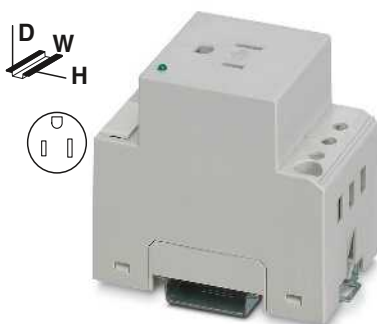
Description	Type	Order No.	Pcs. / Pkt.
<b>Socket for the DIN rail</b>			
Screw connection, light indicator, green	SD-D/SC/LA	2964898	5
Screw connection, light indicator, gray	SD-D/SC/LA/GY	2963491	5
Screw connection, light indicator, yellow	SD-D/SC/LA/YE	2963404	5
Screw connection, green	SD-D/SC	2963310	5
Screw connection, gray	SD-D/SC/GY	2963815	5
Screw connection, yellow	SD-D/SC/YE	2963459	5
Spring-cage connection, light indicator, green	SD-D/SP/LA	2963307	5
Spring-cage connection, light indicator, gray	SD-D/SP/LA/GY	2963488	5
Spring-cage connection, light indicator, yellow	SD-D/SP/LA/YE	2963475	5
Spring-cage connection, green	SD-D/SP	2963323	5
Spring-cage connection, gray	SD-D/SP/GY	2963501	5
Spring-cage connection, yellow	SD-D/SP/YE	2963462	5
<b>Socket for the DIN rail with device fuse (5 x 20 mm, 6.3 A)</b>			
Screw connection, light indicator, green	EMG 45-SD-D/LA/SI	2943738	5
Screw connection, light indicator, yellow	EMG 45-SD-D/LA/SI YE	2940825	5
<b>Double socket for the DIN rail</b>			
Screw connection, light indicator, green	EMG 90-2SD-D/LA	2941523	2
Screw connection, gray			
Screw connection, residual current circuit breaker, gray			

### Accessories

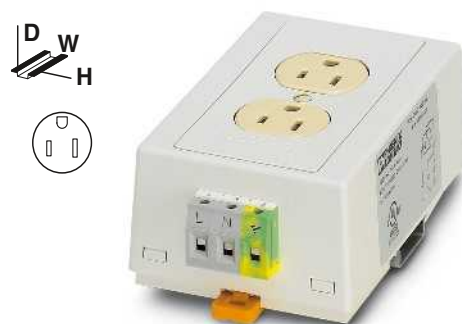
<b>Marker tags</b> , 5-section, unprinted, marking with X-PEN, B-STIFT, plotter or BKMT 20 x 8 label			
Lettering field size: 20 x 8 mm	white	SS-ZB WH	5031171
Lettering field size: 20 x 8 mm	yellow	SS-ZB YE	5031650
<b>marked according to customer specifications</b>	white	SS-ZB WH CUS	0824470



France/Belgium



USA

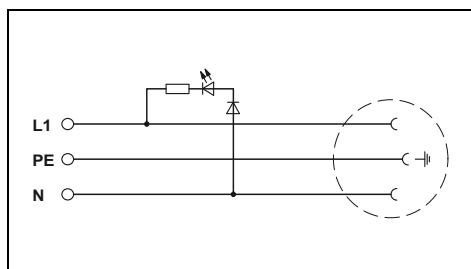


USA

ERC

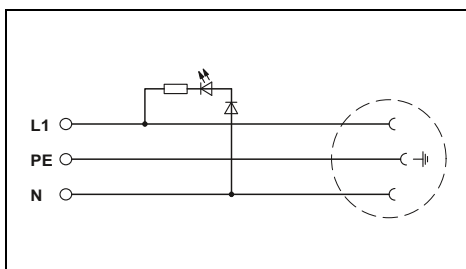
ERC

ERC



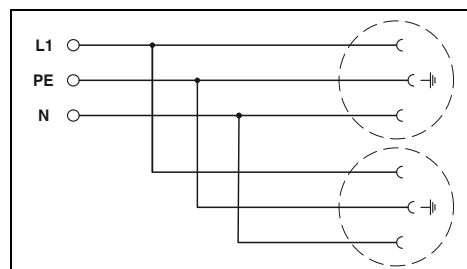
### Technical data

250 V AC  
16 A  
SD-F...  
45 mm / 75 mm / 70.5 mm  
0.2 - 4 mm<sup>2</sup> / 0.2 - 2.5 mm<sup>2</sup> / 24 - 12  
IP20  
CuZn37  
-20°C ... 60°C  
IEC 83 , DIN 49440-1



### Technical data

125 V AC  
15 A  
SD-US...  
45 mm / 75 mm / 70.5 mm  
0.2 - 4 mm<sup>2</sup> / 0.2 - 2.5 mm<sup>2</sup> / 30 - 12  
IP20  
CuZn37  
-20°C ... 60°C  
IEC 83 , DIN 49440-1



### Technical data

125 V AC  
15 A  
EM-DUO...                      EM-DUO.../GFI  
83 mm / 134 mm / 49 mm      83 mm / 134 mm / 52 mm  
0.2 - 6 mm<sup>2</sup> / 0.2 - 4 mm<sup>2</sup> / 30 - 10  
IP20  
-  
-20°C ... 50°C  
UL 508 , CSA 22.2

### Ordering data

Type	Order No.	Pcs. / Pkt.
SD-F/SC/LA	2963336	5
SD-F/SC/LA/GY	2963844	5
SD-F/SC/LA/YE	2963909	5
SD-F/SC	2963352	5
SD-F/SC/GY	2963828	5
SD-F/SP/LA	2963349	5
SD-F/SP/LA/GY	2963857	5

### Ordering data

Type	Order No.	Pcs. / Pkt.
SD-US/SC/LA/GY	2963860	10

### Ordering data

Type	Order No.	Pcs. / Pkt.
EM-DUO 120/15	5600461	1
EM-DUO/120/15/GFI	5600462	1

### Accessories

Type	Order No.	Pcs. / Pkt.
SS-ZB WH	5031171	50
SS-ZB YE	5031650	50
SS-ZB WH CUS	0824470	1

### Accessories

Type	Order No.	Pcs. / Pkt.
SS-ZB WH	5031171	50
SS-ZB YE	5031650	50
SS-ZB WH CUS	0824470	1

### Accessories

Type	Order No.	Pcs. / Pkt.
SS-ZB WH	5031171	50
SS-ZB YE	5031650	50
SS-ZB WH CUS	0824470	1

## Shielding

### Shield clamps SK ...

The screw-type shield connection terminal blocks of the SK series are characterized by:

- Simple handling
- Knurled screw
- Spring-loaded, large pressure piece
- Are suited to direct and busbar mounting

**Notes:**

For dimensional drawings, see page 551.



Shield connection clamps for busbar mounting



Shield connection clamps for direct mounting

ERC

ERC

**Ordering data**

**Ordering data**

Description	Color
<b>Shield terminal block</b> , for applying the shield to busbars, contact resistance < 1 mΩ	
Ø 2-5 mm, tightening torque 0.4 Nm	silver
Ø 3-8 mm, tightening torque 0.6 Nm	silver
Ø 3-14 mm, tightening torque 0.8 Nm	silver
Ø 5-20 mm, tightening torque 0.8 Nm	silver
Ø 5 - 28 mm, tightening torque 1 Nm	silver
Ø 20-35 mm, tightening torque 1.5-1.8 Nm	silver
<b>Shield connection clamp</b> , for applying the shield directly to the conductive mounting plates, plate thickness 1-2 mm	
Ø 2-5 mm, tightening torque 0.4 Nm	silver
Ø 3-8 mm, tightening torque 0.6 Nm	silver
Ø 3-14 mm, tightening torque 0.8 Nm	silver
Ø 5-20 mm, tightening torque 0.8 Nm	silver
Ø 5 - 28 mm, tightening torque 1 Nm	silver
Ø 20-35 mm, tightening torque 1.5-1.8 Nm	silver

Type	Order No.	Pcs. / Pkt.
SK 5	3025338	10
SK 8	3025163	10
SK 14	3025176	10
SK 20	3025189	10
SK 28	3026997	10
SK 35	3026463	10

Type	Order No.	Pcs. / Pkt.
SK 5-D	3025406	10
SK 8-D	3026861	10
SK 14-D	3026874	10
SK 20-D	3026887	10
SK 28-D	3027006	10
SK 35-D	3026890	10

**Accessories**

**Accessories**

**PEN conductor busbar**, 3 x 10 mm, 1 m long, material: Copper, tin-plated, nominal current: 140 A

NLS-CU 3/10 SN 1000MM	0402174	10
-----------------------	---------	----

--	--	--

Shield clamps SKS ...

- The spring shield connection terminal blocks SKS ... are available for cable and conductor diameters of between 3 and 20 mm
- Three different forms of mounting are possible: on NS 35 DIN rails, on busbars or directly on conductive mounting plates



Shield connection clamps for busbar and direct mounting



Shield connection clamps for DIN rail mounting

Notes:

For dimensional drawings, see page 551.

ERC

ERC

Ordering data

Ordering data

Description	Color
<b>Shield terminal block</b> , for applying the shield to busbars, contact resistance < 1 mΩ	
Ø 3-8 mm	silver
Ø 3-14 mm	silver
Ø 5-20 mm	silver
<b>Shield connection terminal block</b> , for directly applying the shield to conductive mounting plates, metal thickness 1-2 mm, with fastening screw M4	
Ø 3-8 mm	silver
Ø 3-14 mm	silver
Ø 5-20 mm	silver
<b>Shield connection terminal block</b> , with screwfix, mounting on DIN rail NS 35..., for shield support on busbars	
Ø 3-8 mm	silver
Ø 3-14 mm	silver
Ø 5-20 mm	silver
<b>Shield connection terminal block</b> , with snap-on foot, mounting on DIN rail NS 35..., for shield support on busbars	
Ø 3-8 mm	silver
Ø 3-14 mm	silver
Ø 5-20 mm	silver

Type	Order No.	Pcs. / Pkt.
<b>SKS 8</b>	3240210	10
<b>SKS 14</b>	3240211	10
<b>SKS 20</b>	3240212	10
<b>SKS 8-D</b>	3240213	10
<b>SKS 14-D</b>	3240214	10
<b>SKS 20-D</b>	3240215	10

Type	Order No.	Pcs. / Pkt.
<b>SKS 8-NS35</b>	3240216	10
<b>SKS 14-NS35</b>	3240217	10
<b>SKS 20-NS35</b>	3240218	10
<b>SKS 8-SNS35</b>	3062786	10
<b>SKS 14-SNS35</b>	3062799	10
<b>SKS 20-SNS35</b>	3062809	10

Accessories

Accessories

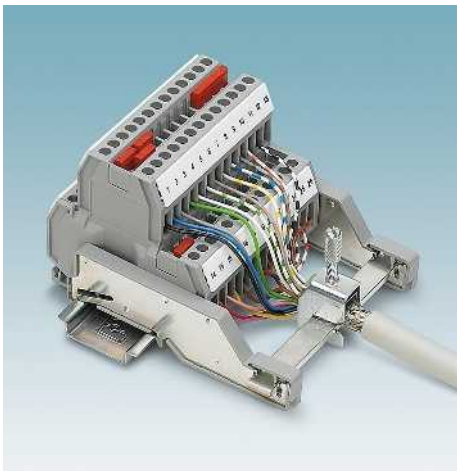
<b>PEN conductor busbar</b> , 3 x 10 mm, 1 m long, material: Copper, tin-plated, nominal current: 140 A
---

Type	Order No.	Pcs. / Pkt.
<b>NLS-CU 3/10 SN 1000MM</b>	0402174	10

<b>NLS-CU 3/10 SN 1000MM</b>	0402174	10
------------------------------	---------	----

## Shielding

### Support bracket for shield support on one side



#### AB-SK TOP

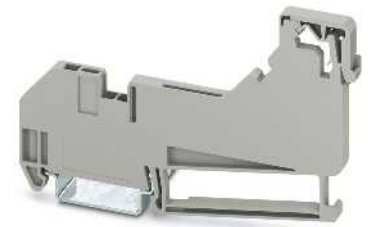
- For convenient shield connection, especially for single- and multi-level terminal blocks and devices with a front connection
- The 3 x 10 mm rail can be mounted in the support frames vertically, horizontally and at a 45° angle for optimum conductor placing
- Compact design in a 5.2 mm pitch
- Can be marked with zack marker strip and KLM terminal strip marker ...; see Catalog 5
- Parking facility for plug-in bridges FBS
- End holder function
- For mounting shield connection terminal blocks SK and SKS

#### AB-SK

- The single-sided shield support frames AB-SK are particularly well suited to space-saving conductor connection for terminal blocks and devices with cable entry at the side
- Available in two lengths
- For mounting shield connection terminal blocks SK

#### AB-SKS

- For convenient shield connection, especially for single- and multi-level terminal blocks and devices with a front connection
- Isolated to DIN rail
- End holder function
- For mounting shield connection terminal blocks SK and SKS



Support bracket frame, tall, for shield connection terminal blocks SK & SKS

Dimensions	
	[mm]

General data	
Material	

Description	Color
-------------	-------

**Support bracket frame with end holder function**, for mounting on NS 35..., direct contact with NS 35..., for accommodating 3 x 10 mm busbars, shield connection terminal blocks SK and SKS

gray

**Support bracket with end holder function**, for mounting on NS 35..., isolated to NS 35..., for accommodating 3 x 10 mm busbars, for shield connection terminal blocks SK and SKS

gray

**Support bracket**, for mounting on NS 35..., direct contact with NS 35..., for accommodating 3 x 10 mm busbars, shield connection terminal blocks SK

gray

**Support bracket**, 65 mm, for mounting on NS 35..., direct contact with NS 35..., for accommodating 3 x 10 mm busbars, shield connection terminal blocks SK

gray

**Support bracket with end holder function**, for mounting on NS 35..., isolated to NS 35..., for accommodating 3 x 10 mm busbars, for shield connection terminal blocks SK and SKS

gray

**PEN conductor busbar**, 3 x 10 mm, 1 m long, material: Copper, tin-plated, nominal current: 140 A

silver

Lateral groove marking
------------------------

#### Technical data

Width	Length	Height
5.2	102.4	

PA
----

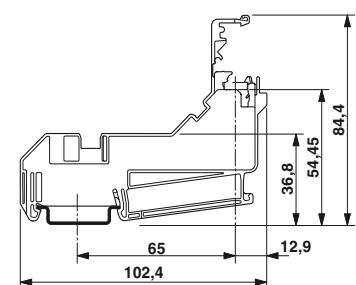
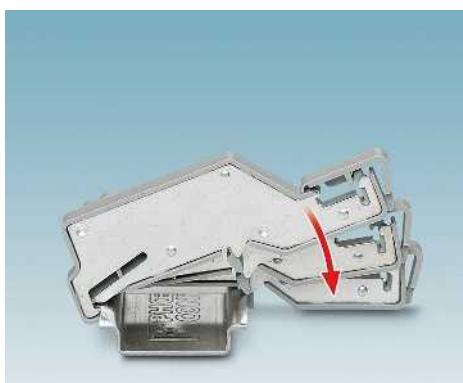
#### Ordering data

Type	Order No.	Pcs. / Pkt.
AB-SK TOP	3062090	10
AB-SK TOP INSULATED	3062074	10

#### Accessories

NLS-CU 3/10 SN 1000MM	0402174	10
-----------------------	---------	----

UC-TM 5, UCT-TM 5 or ZB 5
UC-TMF 5, UCT-TMF 5 or ZBF 5



AB-SK TOP





Support bracket frame, for shield conn. terminal blocks SK



Support bracket, 65 mm long, for shield conn. terminal blocks SK



Isolated support bracket, tall, for shield connection terminal blocks SK and SKS

**Technical data**

Width	Length	Height
6.2	77.35	
PA		

**Ordering data**

Type	Order No.	Pcs. / Pkt.
AB-SK	3025341	10

**Accessories**

NLS-CU 3/10 SN 1000MM	0402174	10
-----------------------	---------	----

**Technical data**

Width	Length	Height
6.2	95.5	
PA		

**Ordering data**

Type	Order No.	Pcs. / Pkt.
AB-SK 65	3026489	10

**Accessories**

NLS-CU 3/10 SN 1000MM	0402174	10
-----------------------	---------	----

**Technical data**

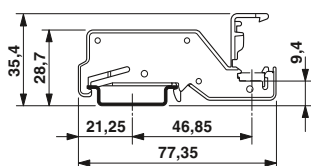
Width	Length	Height
9.5	97.8	
PA		

**Ordering data**

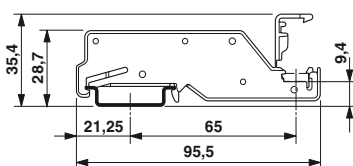
Type	Order No.	Pcs. / Pkt.
AB-SKS 60	3240223	10

**Accessories**

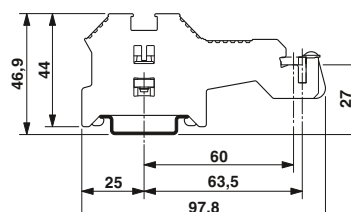
NLS-CU 3/10 SN 1000MM	0402174	10
-----------------------	---------	----



AB-SK



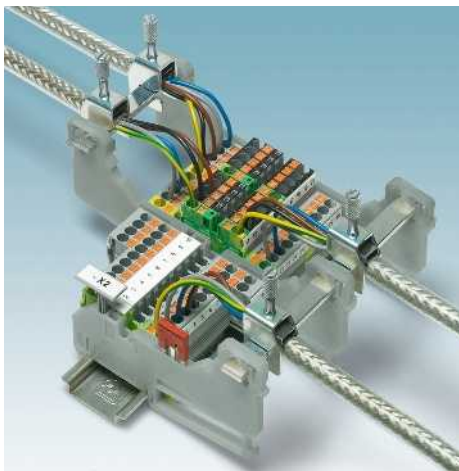
AB-SK 65



AB-SKS 60

## Shielding

### Double support bracket for shield support on both sides



#### AB-SK-D TOP

- For convenient shield connection, especially for single- and multi-level terminal blocks and devices with a front connection
- The 3 x 10 mm rail can be mounted in the support frames vertically, horizontally and at a 45° angle for optimum conductor placing
- Compact design in a 5.2 mm pitch
- Can be marked with zack marker strip and KLM terminal strip marker ...; see Catalog 5
- Parking facility for bridges and connectors
- For mounting shield connection terminal blocks SK and SKS

#### AB-SK 65-D

- The double shield support frames are particularly well suited to space-saving conductor connections for terminal blocks and devices with cable entry at the side
- Available in two lengths
- For mounting shield connection terminal blocks SK



Double support bracket, tall, for shield connection terminal blocks SK and SKS

Dimensions	[mm]
Width	5.2
Length	155.8
Height	

General data	
Material	PA

Description	Color
Double support bracket with end bracket function, for mounting on NS 35..., direct contact with NS 35..., for accommodating 3 x 10 mm busbars, shield connection terminal blocks SK and SKS	gray

Double support bracket with end bracket function, for mounting on NS 35..., isolated to NS 35..., for accommodating 3 x 10 mm busbars, for shield connection terminal blocks SK and SKS	gray
---	------

Double support bracket, for mounting on NS 35..., direct contact with NS 35..., for accommodating 3 x 10 mm busbars, shield connection terminal blocks SK	gray
---	------

Double support bracket, 65 mm, for mounting on NS 35..., isolated to NS 35... for accommodating 3 x 10 mm busbars, shield connection terminal blocks SK	gray
---	------

PEN conductor busbar, 3 x 10 mm, 1 m long, material: Copper, tin-plated, nominal current: 140 A	silver
---	--------

Lateral groove marking

Technical data		
Width	Length	Height
5.2	155.8	

Material	PA
----------	----

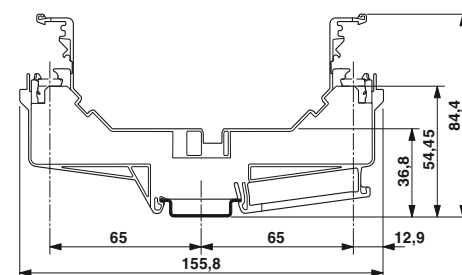
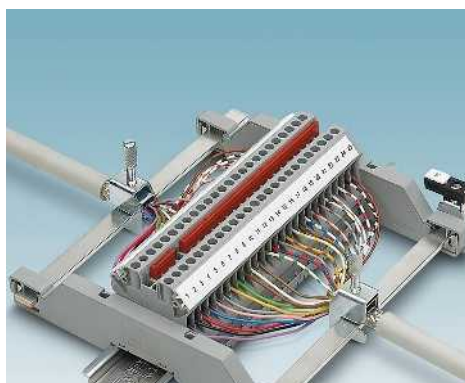
#### Ordering data

Type	Order No.	Pcs. / Pkt.
AB-SK-D TOP	3062100	10

#### Accessories

NLS-CU 3/10 SN 1000MM	0402174	10
-----------------------	---------	----

UC-TM 5, UCT-TM 5 or ZB 5
UC-TMF 5, UCT-TMF 5 or ZBF 5



AB-SK-D TOP



Isolated, double support bracket, tall, for shield connection terminal blocks SK and SKS



Double support bracket, tall, for shield connection terminal blocks SK



Isolated, double support bracket, tall, for shield connection terminal blocks SK

Technical data		
Width	Length	Height
5.2	155.8	
PA		

Technical data		
Width	Length	Height
8.2	150	
PA		

Technical data		
Width	Length	Height
8.2	150	
PA		

Ordering data		
Type	Order No.	Pcs. / Pkt.

Ordering data		
Type	Order No.	Pcs. / Pkt.

Ordering data		
Type	Order No.	Pcs. / Pkt.

AB-SK-D TOP INSULATED	3062087	10
-----------------------	---------	----

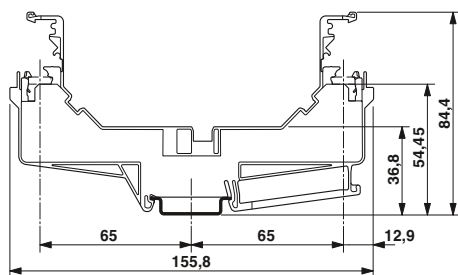
AB-SK 65-D	3026900	10
------------	---------	----

AB-SK 65-D INSULATED	3040889	10
----------------------	---------	----

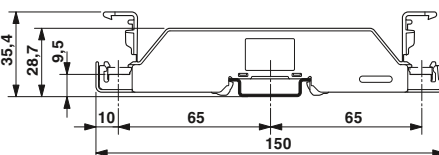
Accessories		
NLS-CU 3/10 SN 1000MM	0402174	10
UC-TM 5, UCT-TM 5 or ZB 5		
UC-TMF 5, UCT-TMF 5 or ZBF 5		

Accessories		
NLS-CU 3/10 SN 1000MM	0402174	10

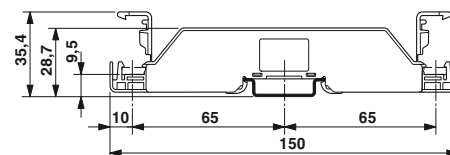
Accessories		
NLS-CU 3/10 SN 1000MM	0402174	10



AB-SK-D TOP INSULATED



AB-SK 65-D



AB-SK 65-D INSULATED

## Shielding

### Support bracket frame for direct mounting

- The support frames are available in the following versions:
- AB/SS for isolated installation on the mounting plate and
  - AB/SS-M for non-isolated installation on the mounting plate
  - For mounting shield connection terminal blocks SK and SKS

**Notes:**  
For dimensional drawings, see [phoenixcontact.net/products](http://phoenixcontact.net/products)

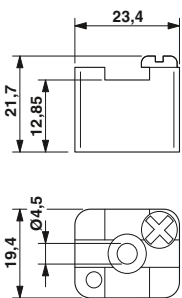


Support bracket for shield connection terminal blocks SK

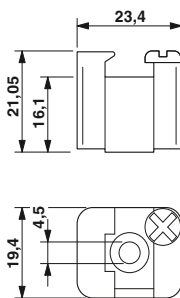


Support bracket for shield connection terminal blocks SK & SKS

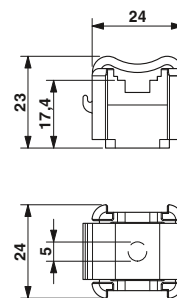
General data		Technical data			Technical data		
Material		PA			PA		
Description		Ordering data			Ordering data		
Color		Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Support bracket, insulated, with retaining screw, for 3 x 10 mm or 6 x 6 mm busbars		AB/SS	0404428	10			
Support bracket, with contact to the mounting plate, with retaining screw, for 3 x 10 mm busbars		AB/SS-M	3025888	10			
Support bracket, insulated, for 3 x 10 mm or 6 x 6 mm busbars					AB/SKS	3240224	10
PEN conductor busbar, 3 x 10 mm, 1 m long, material: Copper, tin-plated, nominal current: 140 A		Accessories			Accessories		
Color		NLS-CU 3/10 SN 1000MM	0402174	10	NLS-CU 3/10 SN 1000MM	0402174	10



AB/SS



AB/SS-M



AB/SKS

Multi-level support bracket for direct mounting



- Double and triple support frames for different busbars
- Type allows for an extremely compact design using large amounts of wiring, e. g. for multi-level front connection terminal blocks
- Support frames are isolated
- Direct mounting



Support bracket, multi-level, insulated

General data

Material	
Description	
<p><b>Double support bracket</b>, insulating material, optionally for use with 3 x 10 mm or 6 x 6 mm neutral busbar, height: 48 mm</p>	
Height 48 mm	gray
Height 36.8 mm	gray
<p><b>Triple support bracket</b>, made from isolation material</p>	
	gray

<p><b>PEN conductor busbar</b>, 3 x 10 mm, 1 m long, material: Copper, tin-plated, nominal current: 140 A</p>	
	silver
<p><b>PEN conductor busbar</b>, in accordance with DIN VDE 0611-4, 6 x 6 mm, 1 m long, material: Copper, tin-plated, nominal current: 140 A</p>	
	silver

Technical data

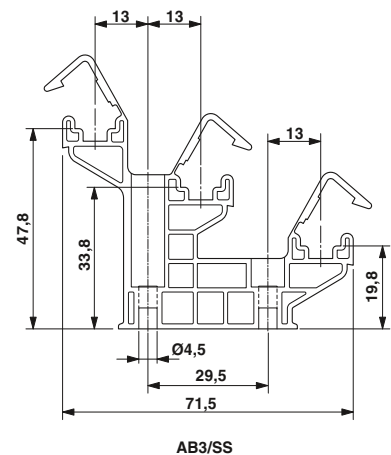
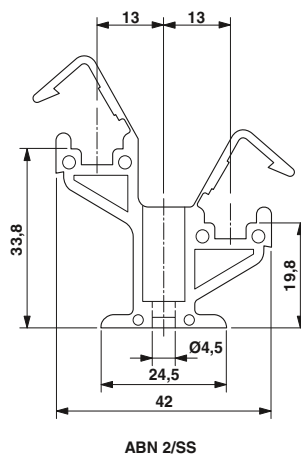
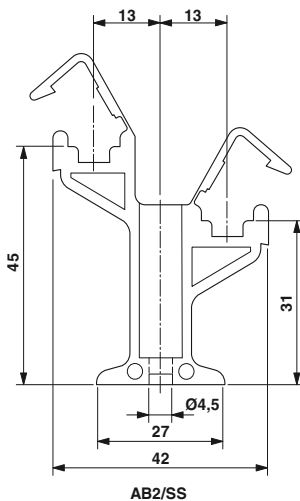
PA

Ordering data

Type	Order No.	Pcs. / Pkt.
AB2/SS	0404431	10
ABN 2/SS	0404460	10
AB3/SS	0800086	10

Accessories

NLS-CU 3/10 SN 1000MM	0402174	10
NLS-CU 6/6 SN 1000MM	0402161	10



## Shielding

### Support bracket frame for direct and DIN rail mounting

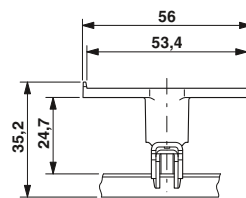


- T-shaped support frames for space-saving direct mounting and free positioning on the mounting plate
- Suitable for shield connection terminal blocks SK 5 to SK 14, SKS 8 and SKS 14
- Version for NS 35 DIN rail mounting

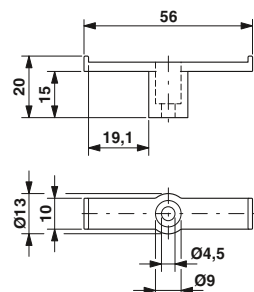


General data	
Material	Aluminum
Description	Color
<b>Support bracket</b> , for direct mounting with contacting on the mounting surface	silver
<b>Support bracket frame</b> , for mounting on NS 35 DIN rails	silver

Technical data		
Aluminum		
Ordering data		
Type	Order No.	Pcs. / Pkt.
AB-SK/E	3026476	10
AB-SK/E-NS 35	3213111	10



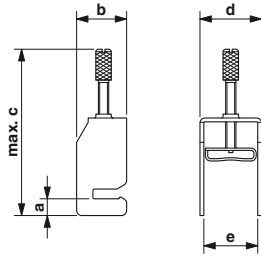
AB-SK/E-NS 35



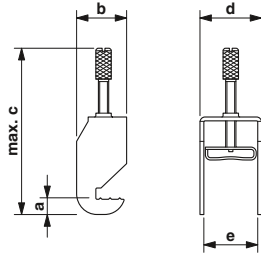
AB-SK/E

Shield connection clamps SK

Dimensions in mm					
	a	b	c	d	e
SK 5	6.5	19.5	46.8	9	6
SK 8	6.5	19.5	48.7	12	9
SK 14	6.5	19.5	59.3	17	14
SK 20	6.5	19.5	75	24	21
SK 28	6.5	20	93	32	28
SK 35	6.5	20	106.5	40	36
SK 5-D	6.5	19.5	46.8	9	6
SK 8-D	6.5	19.5	47.2	12	9
SK 14-D	6.5	19.5	57.8	17	14
SK 20-D	6.5	19.5	73.5	24	21
SK 28-D	6.5	20	91.5	32	28
SK 35-D	6.5	20	105.0	41	36



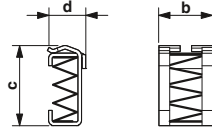
SK ...



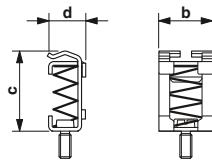
SK ...-D

Shield connection clamps SKS

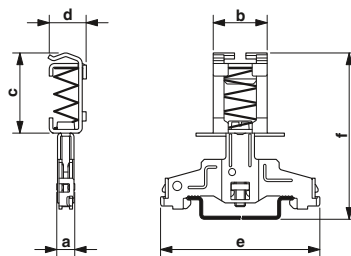
Dimensions in mm						
	a	b	c	d	e	f
SKS 8	-	18	26	12.4	-	-
SKS 14	-	21	32	19	-	-
SKS 20	-	27	40.5	24.7	-	-
SKS 8-D	-	18	26	12.4	-	-
SKS 14-D	-	21	32	19	-	-
SKS 20-D	-	27	40.5	24.7	-	-
SKS 8-NS35	6	18	26	12.4	52	54
SKS 14-NS35	6	21	32	19	52	60
SKS 20-NS35	6	27	40.5	24.7	52	68.4



SKS ...



SKS ...-D

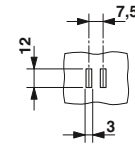


SKS ...-NS35

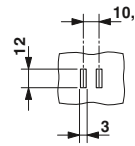
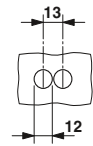
Drilling and punching patterns for SK...-D

Punching template

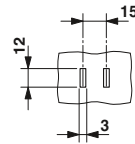
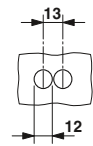
Drilling plan



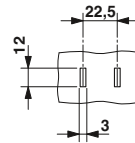
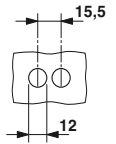
SK 5-D



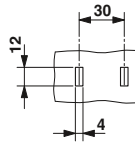
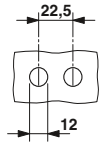
SK 8-D



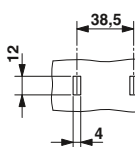
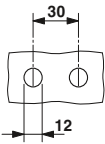
SK 14-D



SK 20-D



SK 28-D



SK 35-D



### Cable routing

The wide choice of cable ducts provides users with flexible and straightforward cable installation solutions that simply involve breaking out the lateral segments without any need for tools. The cable ducts are available in different colors and with a halogen-free design.



### Cable protection

The comprehensive range of plastic and metal protective hoses provides the right solution for every application. Protective hose screw connections with tool-free quick mounting function and various IP protection classes round off the range of products.

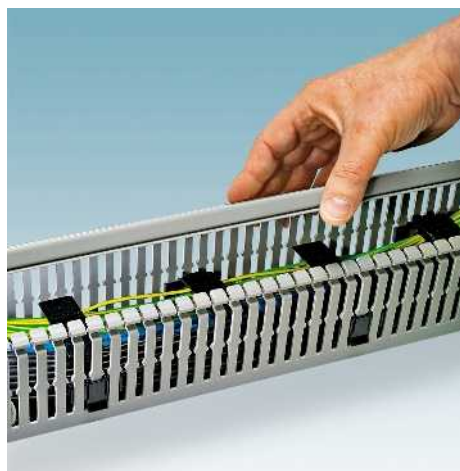


### Cable bundling

For bundling cables, detectable cable binders and stainless steel or plastic cable binders are available in either a removable version or with a marking area. Whether you are working in the food industry or the offshore sector, our comprehensive product range provides the ideal solution for every application.



### Halogen-free cable ducts and accessories



**Notes:**  
For cable ducts cut to customer requirements, visit: [phoenixcontact.net/products](http://phoenixcontact.net/products)



Halogen-free cable ducts are recommended for use in many areas that are subject to high safety requirements, such as high-rise buildings, office buildings, and public facilities where there is a high volume of foot traffic, e.g., airports. The key features of the cable ducts are as follows:

- Installed conductors are securely held in place by means of wire retaining clips that can be snapped onto bars on the side
- The wide, diagonal heads of the cable duct bars make it easy to fit the cover and hold it securely in place
- Predetermined breaking point enables tool-free, burr-free removal of bars
- Fast and seamless creation of T and cross connections by means of an additional predetermined breaking point in the cable duct base
- Cover is securely held in place for both horizontal and vertical mounting

General data	
Material	PC/ABS
Components	Halogen-free
Inflammability class according to UL 94	V0
Temperature range	-25 ... 90 [°C]

Technical data	
Material	PC/ABS
Components	Halogen-free
Inflammability class according to UL 94	V0
Temperature range	-25 ... 90 [°C]

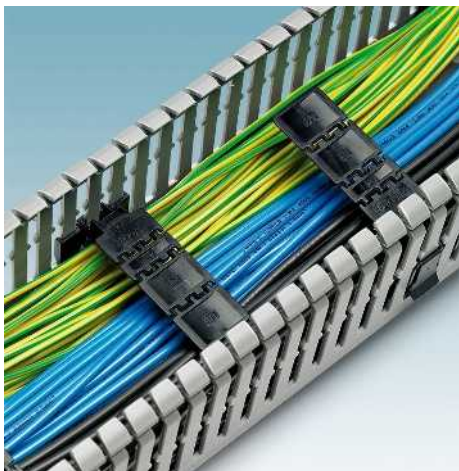
Description	Color
<b>Cable duct, 2000 mm long, comprising lower and upper part</b>	
W x H: 25 x 25 mm	light gray
W x H: 25 x 40 mm	light gray
W x H: 25 x 60 mm	light gray
W x H: 25 x 80 mm	light gray
W x H: 30 x 40 mm	light gray
W x H: 30 x 60 mm	light gray
W x H: 30 x 80 mm	light gray
W x H: 30 x 100 mm	light gray
W x H: 40 x 40 mm	light gray
W x H: 40 x 60 mm	light gray
W x H: 40 x 80 mm	light gray
W x H: 40 x 100 mm	light gray
W x H: 60 x 40 mm	light gray
W x H: 60 x 60 mm	light gray
W x H: 60 x 80 mm	light gray
W x H: 60 x 100 mm	light gray
W x H: 80 x 25 mm	light gray
W x H: 80 x 40 mm	light gray
W x H: 80 x 60 mm	light gray
W x H: 80 x 80 mm	light gray
W x H: 80 x 100 mm	light gray
W x H: 100 x 40 mm	light gray
W x H: 100 x 60 mm	light gray
W x H: 100 x 80 mm	light gray
W x H: 100 x 100 mm	light gray
W x H: 120 x 60 mm	light gray
W x H: 120 x 80 mm	light gray

Ordering data		
Type	Order No.	Pcs. / Pkt.
CD-HF 25X25	3240340	25
CD-HF 25X40	3240341	24
CD-HF 25X60	3240342	15
CD-HF 25X80	3240343	10
CD-HF 30X40	3240344	20
CD-HF 30X60	3240345	24
CD-HF 30X80	3240346	12
CD-HF 30X100	3240347	12
CD-HF 40X40	3240348	25
CD-HF 40X60	3240349	20
CD-HF 40X80	3240350	10
CD-HF 40X100	3240351	10
CD-HF 60X40	3240352	20
CD-HF 60X60	3240353	12
CD-HF 60X80	3240354	10
CD-HF 60X100	3240355	8
CD-HF 80X25	3240356	12
CD-HF 80X40	3240357	15
CD-HF 80X60	3240358	10
CD-HF 80X80	3240359	6
CD-HF 80X100	3240360	8
CD-HF 100X40	3240361	10
CD-HF 100X60	3240362	8
CD-HF 100X80	3240363	6
CD-HF 100X100	3240364	6
CD-HF 120X60	3240365	6
CD-HF 120X80	3240366	4



<b>Upper cable duct part, 2000 mm long</b>	
For a width of 25 mm	
For a width of 30 mm	
For a width of 40 mm	
For a width of 60 mm	
For a width of 80 mm	
For a width of 100 mm	
For a width of 120 mm	
<b>Universal wire holding bracket, pre-perforated for cable duct widths of 40, 60, 80 and 100 mm</b>	
<b>Plastic body-bound rivet, 4 mm diameter, for a material thickness of 1.5 ... 6 mm</b>	
6 mm diameter, material thickness of 2 ... 8 mm	
<b>Rivet setting tool, for use with RVT-PA 4 plastic body-bound rivets</b>	
<b>Rivet setting tool, for use with RVT-PA 6 plastic body-bound rivets</b>	

Accessories		
CD-HF COVER 25	3240369	14
CD-HF COVER 30	3240370	10
CD-HF COVER 40	3240371	14
CD-HF COVER 60	3240372	10
CD-HF COVER 80	3240373	10
CD-HF COVER 100	3240367	7
CD-HF COVER 120	3240368	6
CD WR	3240284	10
RVT-PA 4	3240498	100
RVT-PA 6	3240499	100
UNIFOX-RVT P 4	1212478	1
UNIFOX-RVT P 6	1212509	1



- Installed conductors are securely held in place by means of wire retaining clips that can be snapped onto bars on the side
- The wide, diagonal heads of the cable duct bars make it easy to fit the cover and hold it securely in place



- Predetermined breaking point enables tool-free, burr-free removal of bars
- The CUTFOX-CD cable duct cutter for easy cutting with minimum effort and no burrs



- Plastic body-bound rivets enable easy fixing of cable ducts using the rivet setting tool



- Thanks to its powerful leverage and special blade geometry, the PPS CD cable duct cutter allows easy cutting with minimum effort and no burrs

#### Notes:

For cable ducts cut to customer requirements, visit: [phoenixcontact.net/products](http://phoenixcontact.net/products)

#### General data

Material

Inflammability class according to UL 94

Temperature range

[°C]

#### Description

**Cable duct**, 2000 mm long, comprising **lower** and **upper part**

W x H: 25 x 25 mm  
 W x H: 25 x 40 mm  
 W x H: 25 x 60 mm  
 W x H: 25 x 80 mm  
 W x H: 30 x 40 mm  
 W x H: 30 x 60 mm  
 W x H: 30 x 80 mm  
 W x H: 30 x 100 mm  
 W x H: 40 x 40 mm  
 W x H: 40 x 60 mm  
 W x H: 40 x 80 mm  
 W x H: 40 x 100 mm  
 W x H: 60 x 40 mm  
 W x H: 60 x 60 mm  
 W x H: 60 x 80 mm  
 W x H: 60 x 100 mm  
 W x H: 80 x 25 mm  
 W x H: 80 x 40 mm  
 W x H: 80 x 60 mm  
 W x H: 80 x 80 mm  
 W x H: 80 x 100 mm  
 W x H: 100 x 40 mm  
 W x H: 100 x 60 mm  
 W x H: 100 x 80 mm  
 W x H: 100 x 100 mm  
 W x H: 120 x 60 mm  
 W x H: 120 x 80 mm

#### Upper cable duct part, 2000 mm long

For a width of 25 mm  
 For a width of 30 mm  
 For a width of 40 mm  
 For a width of 60 mm  
 For a width of 80 mm  
 For a width of 100 mm  
 For a width of 120 mm

**Universal wire holding bracket**, pre-perforated for cable duct widths of 40, 60, 80 and 100 mm

**Plastic body-bound rivet**, 4 mm diameter, for a material thickness of 1.5 ... 6 mm

6 mm diameter, material thickness of 2 ... 8 mm

**Rivet setting tool**, for use with RVT-PA 4 plastic body-bound rivets

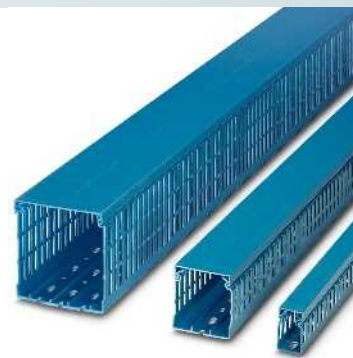
**Rivet setting tool**, for use with RVT-PA 6 plastic body-bound rivets



Cable ducts, gray



Cable ducts, white



Cable ducts, blue



Technical data
PVC
V0
-5 ... 60

Technical data
PVC
V0
-5 ... 60

Technical data
PVC
V0
-5 ... 60

Ordering data		
Type	Order No.	Pcs. / Pkt.
CD 25X25	3240187	25
CD 25X40	3240188	24
CD 25X60	3240191	15
CD 25X80	3240197	10
CD 30X40	3240278	20
CD 30X60	3240280	24
CD 30X80	3240282	12
CD 30X100	3240283	12
CD 40X40	3240189	25
CD 40X60	3240192	20
CD 40X80	3240198	10
CD 40X100	3240294	10
CD 60X40	3240190	20
CD 60X60	3240193	12
CD 60X80	3240199	10
CD 60X100	3240263	8
CD 80X25	3240281	12
CD 80X40	3240335	15
CD 80X60	3240194	10
CD 80X80	3240200	6
CD 80X100	3240264	8
CD 100X40	3240279	10
CD 100X60	3240195	8
CD 100X80	3240201	6
CD 100X100	3240205	6
CD 120X60	3240196	6
CD 120X80	3240202	4

Ordering data		
Type	Order No.	Pcs. / Pkt.
CD 25X25 WH	3240616	25
CD 25X40 WH	3240617	24
CD 25X60 WH	3240618	15
CD 25X80 WH	3240619	10
CD 30X40 WH	3240620	20
CD 30X60 WH	3240621	24
CD 30X80 WH	3240622	12
CD 30X100 WH	3240623	12
CD 40X40 WH	3240624	25
CD 40X60 WH	3240625	20
CD 40X80 WH	3240626	10
CD 40X100 WH	3240627	10
CD 60X40 WH	3240628	20
CD 60X60 WH	3240629	12
CD 60X80 WH	3240630	10
CD 60X100 WH	3240631	8
CD 80X25 WH	3240632	12
CD 80X40 WH	3240633	15
CD 80X60 WH	3240634	10
CD 80X80 WH	3240635	6
CD 80X100 WH	3240636	8
CD 100X40 WH	3240637	10
CD 100X60 WH	3240638	8
CD 100X80 WH	3240639	6
CD 100X100 WH	3240640	6
CD 120X60 WH	3240641	6
CD 120X80 WH	3240642	4

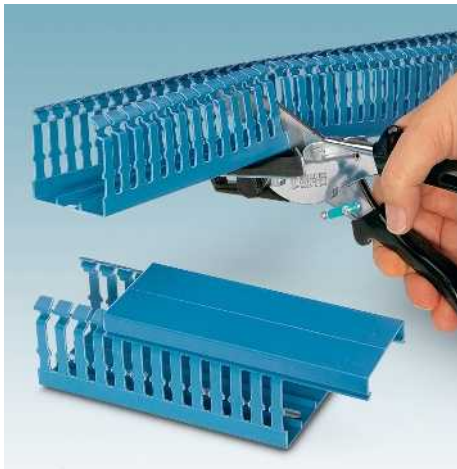
Ordering data		
Type	Order No.	Pcs. / Pkt.
CD 25X25 BU	3240301	25
CD 25X40 BU	3240302	24
CD 25X60 BU	3240303	15
CD 25X80 BU	3240304	10
CD 30X40 BU	3240305	20
CD 30X60 BU	3240306	24
CD 30X80 BU	3240307	12
CD 30X100 BU	3240308	12
CD 40X40 BU	3240309	25
CD 40X60 BU	3240310	20
CD 40X80 BU	3240311	10
CD 40X100 BU	3240312	10
CD 60X40 BU	3240313	20
CD 60X60 BU	3240314	12
CD 60X80 BU	3240315	10
CD 60X100 BU	3240316	8
CD 80X25 BU	3240317	12
CD 80X40 BU	3240318	15
CD 80X60 BU	3240319	12
CD 80X80 BU	3240320	6
CD 80X100 BU	3240321	8
CD 100X40 BU	3240322	10
CD 100X60 BU	3240323	8
CD 100X80 BU	3240324	6
CD 100X100 BU	3240325	6
CD 120X60 BU	3240326	6
CD 120X80 BU	3240327	4

Accessories		
Type	Order No.	Pcs. / Pkt.
CD COVER 25	3240285	14
CD COVER 30	3240295	20
CD COVER 40	3240286	14
CD COVER 60	3240287	10
CD COVER 80	3240288	10
CD COVER 100	3240289	6
CD COVER 120	3240290	6
CD WR	3240284	10
RVT-PA 4	3240498	100
RVT-PA 6	3240499	100
UNIFOX-RVT P 4	1212478	1
UNIFOX-RVT P 6	1212509	1

Accessories		
Type	Order No.	Pcs. / Pkt.
CD COVER 25 WH	3240645	14
CD COVER 30 WH	3240646	10
CD COVER 40 WH	3240647	14
CD COVER 60 WH	3240648	10
CD COVER 80 WH	3240649	10
CD COVER 100 WH	3240643	6
CD COVER 120 WH	3240644	6
CD WR	3240284	10
RVT-PA 4	3240498	100
RVT-PA 6	3240499	100
UNIFOX-RVT P 4	1212478	1
UNIFOX-RVT P 6	1212509	1

Accessories		
Type	Order No.	Pcs. / Pkt.
CD COVER 25 BU	3240330	14
CD COVER 30 BU	3240331	10
CD COVER 40 BU	3240332	14
CD COVER 60 BU	3240333	10
CD COVER 80 BU	3240334	10
CD COVER 100 BU	3240328	6
CD COVER 120 BU	3240329	6
CD WR	3240284	10
RVT-PA 4	3240498	100
RVT-PA 6	3240499	100
UNIFOX-RVT P 4	1212478	1
UNIFOX-RVT P 6	1212509	1

### Cable duct cutters



- Easy, burr-free cutting with minimum effort, thanks to the special cutting geometry and optimum leverage
- Non-slip ergonomic grip
- With spring reset
- 45° limit stop
- 75 mm cutting width



ERC

Dimensions	
	[mm]

Technical data		
Width	Length	Height
-	245	-

General data	
Weight	[kg]

0.43
------

Description	Color
Cable duct cutter	black
Cable duct cutters	black

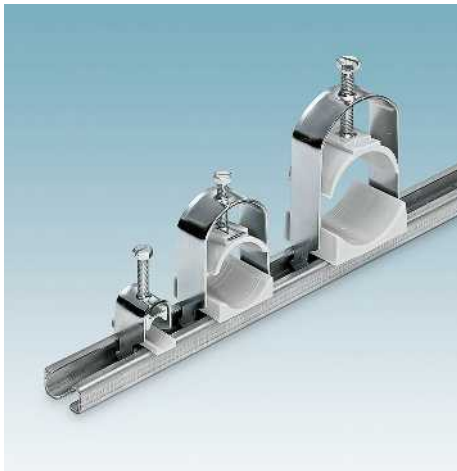
Ordering data		
Type	Order No.	Pcs. / Pkt.
CUTFOX-CD	1212474	1
PPS CD M	1207569	1

<b>Replacement blade, for PPS CD M</b>
<b>Replacement counter support (grip protection), for PPS CD M</b>
<b>Workbench, with plywood panel 700 x 1200 x 50 mm, without mounting screws and bore holes</b>

Accessories		
Type	Order No.	Pcs. / Pkt.
PPS CD BLADE	1207572	1
PPS CD M COHO	1208995	1
PPS TABLE	1206285	1



### Cable clamps and DIN rail



- The cable clamps provide strain relief
- Individual or bundled cables with a diameter of up to 64 mm can be safely and easily installed
- The halogen-free plastic troughs have been designed to be perfectly secure while at the same time protecting the conductors



Cable clamps for a cable diameter of 6 - 64 mm

#### General data

Material

#### Technical data

Steel

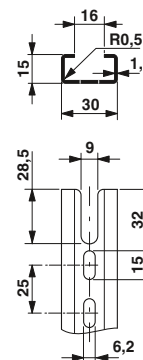
#### Ordering data

Description

**Cable clamp**, for DIN rail  
 For cable diameters of 6 – 14 mm  
 For cable diameters of 12 – 18 mm  
 For cable diameters of 18 – 22 mm  
 For cable diameters of 22 – 26 mm  
 For cable diameters of 26 – 30 mm  
 For cable diameters of 30 – 34 mm  
 For cable diameters of 34 – 38 mm  
 For cable diameters of 38 – 42 mm  
 For cable diameters of 42 – 56 mm  
 For cable diameters of 56 – 64 mm

**DIN rails**, for cable clamps

Type	Order No.	Pcs. / Pkt.
WCC 14	3240252	25
WCC 18	3240253	25
WCC 22	3240254	25
WCC 26	3240255	25
WCC 30	3240256	25
WCC 34	3240257	25
WCC 38	3240258	25
WCC 42	3240259	25
WCC 56	3240260	25
WCC 64	3240261	25
NS 30/15 PERF.2000MM	3240262	5



NS 30/15 PERF. 2000MM DIN rail

# Installation and mounting material - CABINET add-on

## Cable routing, cable protection, cable bundling

### Protective hoses made of plastic



The plastic protective hoses offer optimum protection, thanks to the following properties:

- Airtight and liquid tight
- Oil-resistant up to +80°C
- Gasoline-resistant
- Largely resistant to acids and solvents
- Free from silicone, halogen, and cadmium
- UV resistant

The V0 version provides additional protection, thanks to its self-extinguishing property. This makes it suitable for use in the following areas:

- Machine and system engineering
- Vehicle construction
- Rail vehicles
- Shipbuilding
- Automation
- Electrical systems

The transition and end sleeves offer an alternative form of termination to the actual cable gland.

- Can be used wherever it is not possible or necessary to attach a cable gland
- Prevent damage to the conductors being fed through



<b>Notes:</b>
Pcs. / Pkt. specifies the protective hose length in [m].



Slotted, outside diameter of 21.2 - 42.5 mm



<b>General data</b>	
Material	
Components	
Inflammability class according to UL 94	
Temperature range	[°C]

<b>Technical data</b>	
PA	
free from silicone, halogen, and cadmium	
V0	
-40 ... 105	

Description	Color
-------------	-------

**Protective hose, slotted, for retrofitting**

Diameter [mm]	Bending radius [mm]	
Outside/inside	static	
21.2 / 16.5	40	black
28.5 / 23	45	black
34.5 / 29	55	black
42.5 / 36	65	black

<b>Protective hose</b>		
Diameter [mm]	Bending radius [mm]	
Outside/inside	static/dynamic	
10 / 6.5	13 / 35	black
13 / 10	20 / 45	black
15.8 / 12	35 / 55	black
21.2 / 16.5	45 / 75	black
28.5 / 23	55 / 100	black
34.5 / 29	65 / 120	black
42.5 / 36	90 / 150	black

<b>Protective hose</b>		
Diameter [mm]	Bending radius [mm]	
Outside/inside	static/dynamic	
10 / 6.5	13 / 35	black
13 / 10	20 / 45	black
15.8 / 12	35 / 55	black
21.2 / 16.5	45 / 75	black
28.5 / 23	55 / 100	black
34.5 / 29	65 / 120	black
42.5 / 36	90 / 150	black

<b>Transition sleeves, from hose to cable</b>		
Diameter [mm]		
Outside/inside		
10 / 8	8	black
13 / 10	10	black
15.8 / 12	12	black
21.2 / 16.5	16.5	black
28.2 / 23	23	black
34.5 / 29	29	black
42.5 / 37	37	black

<b>End sleeves</b>		
Diameter [mm]		
Outside/inside		
10 / 4.3		black
13 / 7.8		black
15.8 / 10.3		black
21.2 / 14.3		black
28.2 / 20.8		black
34.5 / 26.8		black
42.5 / 33.8		black

<b>Ordering data</b>		
----------------------	--	--

Type	Order No.	Pcs. / Pkt.
WP-PA HF-SL 21,2 BK	3240845	10
WP-PA HF-SL 28,5 BK	3240846	10
WP-PA HF-SL 34,5 BK	3240847	10
WP-PA HF-SL 42,5 BK	3240848	10



PA 6.6 V0 plastic protective hose, outside diameter of 10 - 42.5 mm



PA 6.6 HB plastic protective hose, outside diameter of 10 - 42.5 mm



Transition sleeve for protective hose diameters of 10 - 42.5 mm



Technical data
PA free from silicone, halogen, and cadmium V0 -40 ... 115

Technical data
PA free from silicone, halogen, and cadmium V0 -40 ... 105

Technical data
TPE halogen-free HB -40 ... 120

Ordering data
---------------

Ordering data
---------------

Ordering data
---------------

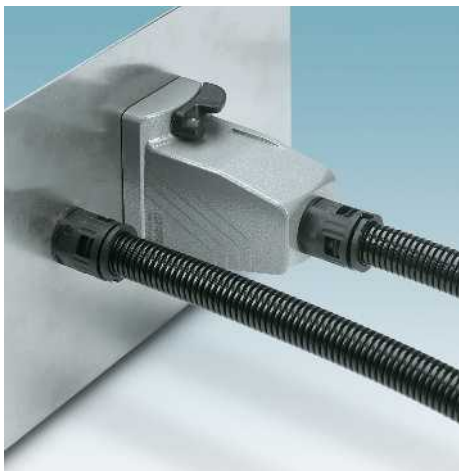
Type	Order No.	Pcs. / Pkt.
WP-PA HF 10,0 BK	3240680	50
WP-PA HF 13,0 BK	3240681	50
WP-PA HF 15,8 BK	3240682	50
WP-PA HF 21,2 BK	3240683	50
WP-PA HF 28,5 BK	3240684	50
WP-PA HF 34,5 BK	3241088	25
WP-PA HF 42,5 BK	3241089	25

Type	Order No.	Pcs. / Pkt.
WP-PA HF-HB 10,0 BK	3240838	50
WP-PA HF-HB 13,0 BK	3240839	50
WP-PA HF-HB 15,8 BK	3240840	50
WP-PA HF-HB 21,2 BK	3240841	50
WP-PA HF-HB 28,5 BK	3240842	50
WP-PA HF-HB 34,5 BK	3240843	25
WP-PA HF-HB 42,5 BK	3240844	25

Type	Order No.	Pcs. / Pkt.
WP-EC TPE HF 10,0 BK	3240974	50
WP-EC TPE HF 13,0 BK	3240975	50
WP-EC TPE HF 15,8 BK	3240976	50
WP-EC TPE HF 21,2 BK	3240977	50
WP-EC TPE HF 28,5 BK	3240978	25
WP-EC TPE HF 34,5 BK	3240979	25
WP-EC TPE HF 42,5 BK	3240980	25
WP-SC PA HF 10,0 BK	3240981	50
WP-SC PA HF 13,0 BK	3240982	50
WP-SC PA HF 15,8 BK	3240983	50
WP-SC PA HF 21,2 BK	3240984	50
WP-SC PA HF 28,5 BK	3240985	25
WP-SC PA HF 34,5 BK	3240986	25
WP-SC PA HF 42,5 BK	3240987	25

## Cable routing, cable protection, cable bundling

### Screw connections for plastic protective hoses



The plastic screw connections with straight design are available in IP66 and IP69K protection classes. They offer the following features:

- Vibration-resistant, automatic protective hose latching
- Pg or metric thread
- Resistant to oil and gasoline
- Resistant to acids and solvents
- Free from silicone, halogen, and cadmium

#### Tool-free protective hose mounting

- Secure, reliable, and easy latching in the hose screw connection, see figure below



#### Notes:

For accessories and dimensional drawings, see [phoenixcontact.net/products](http://phoenixcontact.net/products)



IP66 degree of protection,  
Pg7 - Pg36 thread



#### Technical data

#### General data

Material	PA
Components	free from silicone, halogen, and cadmium
Degree of protection	IP66
Thread type	Pg
Inflammability class according to UL 94	V0
Temperature range	-40 ... 115 [°C]

Material	PA
Components	free from silicone, halogen, and cadmium
Degree of protection	IP66
Thread type	Pg
Inflammability class according to UL 94	V0
Temperature range	-40 ... 115

#### Ordering data

Description	Color
<b>Screw connection, IP66, straight, with Pg thread, for protective hose outside diameter [mm]</b>	
10	black
13	black
15.8	black
21.2	black
28.5	black
34.5	black
42.5	black
<b>Screw connection, IP66, straight, with metric thread, for protective hose outside diameter [mm]</b>	
10	black
13	black
15.8	black
21.2	black
28.5	black
34.5	black
42.5	black
<b>Screw connection, IP69K, straight, with Pg thread, for protective hose outside diameter [mm]</b>	
10	black
13	black
15.8	black
21.2	black
28.5	black
34.5	black
42.5	black
<b>Screw connection, IP69K, straight, with metric thread, for protective hose outside diameter [mm]</b>	
10	black
13	black
15.8	black
21.2	black
28.5	black
34.5	black
42.5	black

Type	Order No.	Pcs. / Pkt.
WP-G HF IP66 PG7 BK	3240888	50
WP-G HF IP66 PG9 BK	3240889	50
WP-G HF IP66 PG11 BK	3240890	50
WP-G HF IP66 PG16 BK	3240891	50
WP-G HF IP66 PG21 BK	3240892	25
WP-G HF IP66 PG29 BK	3240893	25
WP-G HF IP66 PG36 BK	3240894	25

#### Counter nuts and seals

#### Accessories

see page 578 onwards





IP66 degree of protection,  
M10 - M40 metric thread



IP69K degree of protection,  
Pg7 - Pg36 thread



IP69K degree of protection,  
M10 - M40 metric thread



Technical data
PA free from silicone, halogen, and cadmium IP66 metric V0 -40 ... 115

Technical data
PA free from silicone, halogen, and cadmium IP68/IP69K Pg V0 -40 ... 115

Technical data
PA free from silicone, halogen, and cadmium IP68/IP69K metric V0 -40 ... 115

Ordering data		
Type	Order No.	Pcs. / Pkt.
WP-G HF IP66 M10 BK	3240895	50
WP-G HF IP66 M12 BK	3240896	50
WP-G HF IP66 M16 BK	3240897	50
WP-G HF IP66 M20 BK	3240898	50
WP-G HF IP66 M25 BK	3240899	25
WP-G HF IP66 M32 BK	3240900	25
WP-G HF IP66 M40 BK	3240901	25

Ordering data		
Type	Order No.	Pcs. / Pkt.
WP-G HF IP69K PG7 BK	3240874	50
WP-G HF IP69K PG9 BK	3240875	50
WP-G HF IP69K PG11 BK	3240876	50
WP-G HF IP69K PG16 BK	3240877	50
WP-G HF IP69K PG21 BK	3240878	25
WP-G HF IP69K PG29 BK	3240879	25
WP-G HF IP69K PG36 BK	3240880	25

Ordering data		
Type	Order No.	Pcs. / Pkt.
WP-G HF IP69K M10 BK	3240881	50
WP-G HF IP69K M12 BK	3240882	50
WP-G HF IP69K M16 BK	3240883	50
WP-G HF IP69K M20 BK	3240884	50
WP-G HF IP69K M25 BK	3240885	25
WP-G HF IP69K M32 BK	3240886	25
WP-G HF IP69K M40 BK	3240887	25

Accessories		
see page 578 onwards		

Accessories		
see page 578 onwards		

Accessories		
see page 578 onwards		

# Installation and mounting material - CABINET add-on

## Cable routing, cable protection, cable bundling

### Screw connections, angled, for plastic protective hoses



The plastic screw connections with angled design are available in IP66 and IP69K protection classes. They offer the following features:

- Vibration-resistant, automatic protective hose latching
- Pg or metric thread
- Resistant to oil and gasoline
- Resistant to acids and solvents
- Free from silicone, halogen, and cadmium

#### Tool-free protective hose mounting

- Secure, reliable, and easy latching in the hose screw connection

#### Notes:

For accessories and dimensional drawings, see [phoenixcontact.net/products](http://phoenixcontact.net/products)



IP66 degree of protection,  
Pg7 - Pg36 thread



#### General data

Material	
Components	
Degree of protection	IP66
Thread type	Pg
Inflammability class according to UL 94	HB
Temperature range	-40 ... 115 [°C]

#### Technical data

PA
free from silicone, halogen, and cadmium
IP66
Pg
HB
-40 ... 115

Description	Color
-------------	-------

**Screw connection, IP66, 90° angled, with Pg thread, for protective hose outside diameter [mm]**

10	black
13	black
15.8	black
21.2	black
28.5	black
34.5	black
42.5	black

**Screw connection, IP66, 90° angled, with metric thread, for protective hose outside diameter [mm]**

10	black
13	black
15.8	black
21.2	black
28.5	black
34.5	black
42.5	black

**Screw connection, IP69K, 90° angled, with Pg thread, for protective hose outside diameter [mm]**

10	black
13	black
15.8	black
21.2	black
28.5	black
34.5	black
42.5	black

**Screw connection, IP69K, 90° angled, with metric thread, for protective hose outside diameter [mm]**

10	black
13	black
15.8	black
21.2	black
28.5	black
34.5	black
42.5	black

#### Ordering data

Type	Order No.	Pcs. / Pkt.
WP-GA HF IP66 PG7 BK	3240916	50
WP-GA HF IP66 PG9 BK	3240917	50
WP-GA HF IP66 PG11 BK	3240918	50
WP-GA HF IP66 PG16 BK	3240919	50
WP-GA HF IP66 PG21 BK	3240920	25
WP-GA HF IP66 PG29 BK	3240921	10
WP-GA HF IP66 PG36 BK	3240922	10

#### Counter nuts and seals

see page 578 onwards

#### Accessories



IP66 degree of protection,  
M10 - M40 metric thread



IP69K degree of protection,  
Pg7 - Pg36 thread



IP69K degree of protection,  
M10 - M40 metric thread



### Technical data

PA  
free from silicone, halogen, and cadmium  
IP66  
metric  
HB  
-40 ... 115

### Technical data

PA  
free from silicone, halogen, and cadmium  
IP68/IP69K  
Pg  
HB  
-40 ... 115

### Technical data

PA  
free from silicone, halogen, and cadmium  
IP68/IP69K  
metric  
HB  
-40 ... 115

### Ordering data

Type	Order No.	Pcs. / Pkt.
WP-GA HF IP66 M10 BK	3240923	50
WP-GA HF IP66 M12 BK	3240924	50
WP-GA HF IP66 M16 BK	3240925	50
WP-GA HF IP66 M20 BK	3240926	50
WP-GA HF IP66 M25 BK	3240927	50
WP-GA HF IP66 M32 BK	3240928	25
WP-GA HF IP66 M40 BK	3240929	10

### Ordering data

Type	Order No.	Pcs. / Pkt.
WP-GA HF IP69K PG7 BK	3240902	50
WP-GA HF IP69K PG9 BK	3240903	50
WP-GA HF IP69K PG11 BK	3240904	50
WP-GA HF IP69K PG16 BK	3240905	50
WP-GA HF IP69K PG21 BK	3240906	25
WP-GA HF IP69K PG29 BK	3240907	10
WP-GA HF IP69K PG36 BK	3240908	10

### Ordering data

Type	Order No.	Pcs. / Pkt.
WP-GA HF IP69K M10 BK	3240909	50
WP-GA HF IP69K M12 BK	3240910	50
WP-GA HF IP69K M16 BK	3240911	50
WP-GA HF IP69K M20 BK	3240912	50
WP-GA HF IP69K M25 BK	3240913	25
WP-GA HF IP69K M32 BK	3240914	10
WP-GA HF IP69K M40 BK	3240915	10

### Accessories

see page 578 onwards

### Accessories

see page 578 onwards

### Accessories

see page 578 onwards

## Cable routing, cable protection, cable bundling

### Screw connections with strain relief, for plastic protective hoses



The plastic screw connections with strain relief are available in IP66 and IP69K protection classes. They offer the following features:

- Vibration-resistant, automatic protective hose latching
- Pg or metric thread
- Integrated cable strain relief
- Resistant to oil and gasoline
- Resistant to acids and solvents
- Free from silicone, halogen, and cadmium

#### Tool-free protective hose mounting

- Secure, reliable, and easy latching in the hose screw connection

#### Notes:

For accessories and dimensional drawings, see [phoenixcontact.net/products](http://phoenixcontact.net/products)



IP66 degree of protection, Pg7 - Pg36 thread, with strain relief



#### Technical data

Material: PA  
 Components: free from silicone, halogen, and cadmium  
 Degree of protection: IP66  
 Thread type: Pg  
 Inflammability class according to UL 94: V0  
 Temperature range: -40 ... 115 [°C]

#### Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
<b>Screw connection, IP66, straight, with Pg thread, for protective hose outside diameter [mm]</b>				
10	black	WP-GR HF IP66 PG7 BK	3240944	20
13	black	WP-GR HF IP66 PG9 BK	3240945	20
15.8	black	WP-GR HF IP66 PG11 BK	3240946	20
21.2	black	WP-GR HF IP66 PG16 BK	3240947	10
28.5	black	WP-GR HF IP66 PG21 BK	3240948	10
34.5	black	WP-GR HF IP66 PG29 BK	3240949	10
42.5	black	WP-GR HF IP66 PG36 BK	3240950	10
<b>Screw connection, IP66, straight, with metric thread, for protective hose outside diameter [mm]</b>				
13	black			
15.8	black			
21.2	black			
28.5	black			
34.5	black			
42.5	black			
<b>Screw connection, IP69K, straight, with Pg thread, for protective hose outside diameter [mm]</b>				
10	black			
13	black			
15.8	black			
21.2	black			
28.5	black			
34.5	black			
42.5	black			
<b>Screw connection, IP69K, straight, with metric thread, for protective hose outside diameter [mm]</b>				
13	black			
15.8	black			
21.2	black			
28.5	black			
34.5	black			
42.5	black			

#### Accessories

Counter nuts and seals

see page 578 onwards



IP66 degree of protection, M12 - M40 metric thread, with strain relief



IP69K degree of protection, Pg7 - Pg36 thread, with strain relief



IP69K degree of protection, M12 - M40 metric thread, with strain relief



Technical data
PA free from silicone, halogen, and cadmium IP66 metric V0 -40 ... 115

Technical data
PA free from silicone, halogen, and cadmium IP68/IP69K Pg V0 -40 ... 115

Technical data
PA free from silicone, halogen, and cadmium IP68/IP69K metric V0 -40 ... 115

Ordering data		
Type	Order No.	Pcs. / Pkt.
WP-GR HF IP66 M12 BK	3240952	20
WP-GR HF IP66 M16 BK	3240953	20
WP-GR HF IP66 M20 BK	3240954	20
WP-GR HF IP66 M25 BK	3240955	10
WP-GR HF IP66 M32 BK	3240956	10
WP-GR HF IP66 M40 BK	3240957	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
WP-GR HF IP69K PG7 BK	3240930	20
WP-GR HF IP69K PG9 BK	3240931	20
WP-GR HF IP69K PG11 BK	3240932	20
WP-GR HF IP69K PG16 BK	3240933	10
WP-GR HF IP69K PG21 BK	3240934	10
WP-GR HF IP69K PG29 BK	3240935	10
WP-GR HF IP69K PG36 BK	3240936	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
WP-GR HF IP69K M12 BK	3240938	20
WP-GR HF IP69K M16 BK	3240939	20
WP-GR HF IP69K M20 BK	3240940	20
WP-GR HF IP69K M25 BK	3240941	10
WP-GR HF IP69K M32 BK	3240942	10
WP-GR HF IP69K M40 BK	3240943	10

Accessories		
see page 578 onwards		

Accessories		
see page 578 onwards		

Accessories		
see page 578 onwards		

# Installation and mounting material - CABINET add-on

## Cable routing, cable protection, cable bundling

### Protective hoses with PVC- or PU-coated spirals



The **WP-SPIRAL PVC C ...** plastic protective hoses with soft PVC-coated spring wire helix offer optimum protection, thanks to the following properties:

- Highly flexible
- Can be stretched and compressed
- Internal corrosion protection
- Largely resistant to acids and solvents
- Free from silicone and cadmium
- Airtight and liquid tight

The **WP-SPIRAL PU C ...** plastic protective hoses with fixed, PU-coated spring wire helix offer the following:

- Very tough and resistant to abrasion
- Highly flexible
- Resistant to germs
- Airtight and liquid tight
- Resistant to oil and grease
- Gasoline-resistant
- Largely resistant to acids and solvents
- Free from silicone, halogen, and cadmium
- Flame-protected
- Behaves extremely well at low temperatures
- V2 according to UL 94
- Suitable as a suction tube

The covered protective hoses are particularly suitable for the following fields of application:

- Machine and system engineering
- Vehicle construction
- Use in guide chains
- Shipbuilding
- Automation
- Electrical systems

<b>Notes:</b>
Pcs. / Pkt. specifies the protective hose length in [m].



Protective hose, PVC coated spiral, outside diameter of 10 - 45 mm



<b>General data</b>	
Material	PVC
Components	Free from silicone and cadmium
Inflammability class according to UL 94	-
Temperature range	-25 ... 80 [°C]

### Technical data

<b>Technical data</b>	
Material	PVC
Components	Free from silicone and cadmium
Inflammability class according to UL 94	-
Temperature range	-25 ... 80 [°C]

Description	Color	
<b>Protective hose, PVC-coated spiral</b>		
Diameter [mm]	Bending radius [mm]	
Outside/inside	static	
10 / 7	8	gray
14 / 10	10	gray
17 / 13	13	gray
21 / 16	17	gray
27 / 22	20	gray
36 / 29	24	gray
45 / 38	36	gray
<b>Protective hose, PU-coated spiral</b>		
Diameter [mm]	Bending radius [mm]	
Outside/inside	static	
10 / 7	8	blue
14 / 10	10	blue
17 / 13	13	blue
21 / 16	17	blue
27 / 22	20	blue
36 / 29	24	blue
45 / 38	36	blue
<b>End sleeves</b>		
Diameter [mm]	Cable diameter [mm]	
Outside/inside		
10 / 7	6	gray
14 / 10	9	gray
17 / 13	11.5	gray
21 / 16	14.5	gray
27 / 21	19.5	gray
36 / 29	26.5	gray
45 / 38	36	gray

### Ordering data

Type	Order No.	Pcs. / Pkt.
WP-SPIRAL PVC C 10	3240849	10
WP-SPIRAL PVC C 14	3240850	10
WP-SPIRAL PVC C 17	3240851	10
WP-SPIRAL PVC C 21	3240852	10
WP-SPIRAL PVC C 27	3240853	10
WP-SPIRAL PVC C 36	3240854	10
WP-SPIRAL PVC C 45	3240855	10



Protective hose, PU coated spiral,  
outside diameter of 10 - 45 mm



End sleeve for protective hose  
diameter of 10 - 45 mm



Technical data			Technical data		
PU Free from silicone, halogen, and cadmium V2 -40 ... 80			PP Halogen-free HB -10 ... 110		
Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
WP-SPIRAL PU C HF 10	3240856	10			
WP-SPIRAL PU C HF 14	3240857	10			
WP-SPIRAL PU C HF 17	3240858	10			
WP-SPIRAL PU C HF 21	3240859	10			
WP-SPIRAL PU C HF 27	3240860	10			
WP-SPIRAL PU C HF 36	3240861	10			
WP-SPIRAL PU C HF 45	3240862	10			
			WP-SC HF 10	3241016	50
			WP-SC HF 14	3241017	50
			WP-SC HF 17	3241018	50
			WP-SC HF 21	3241019	50
			WP-SC HF 27	3241020	25
			WP-SC HF 36	3241021	25
			WP-SC HF 45	3241022	20

## Cable routing, cable protection, cable bundling

### Screw connections, for protective hoses with coated spirals



The polypropylene screw connections with a straight design are available with or without a rotatable connecting thread.

- Easy, tool-free mounting
- High resistance to dust and fluids
- Vibration resistance and high tensile strength, thanks to hose screw-out locking

#### Rotatable screw connections

- The protective hose can still be rotated after panel mounting, thanks to the special screw connections



IP65 degree of protection, Pg7 - Pg36 thread



#### Technical data

General data	
Material	PP
Degree of protection	IP65
Thread type	Pg
Components	Halogen-free
Inflammability class according to UL 94	HB
Temperature range	-10 ... 110 [°C]

#### Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
<b>Screw connection, IP65, straight, with Pg thread</b>				
Outside diameter of protective hose [mm]	Cable diameter [mm]			
10	6	gray WP-G PP HF PG7	3240988	10
14	9	gray WP-G PP HF PG9	3240989	10
17	11	gray WP-G PP HF PG11	3240990	10
21	14.5	gray WP-G PP HF PG16	3240991	10
27	19.5	gray WP-G PP HF PG21	3240992	10
36	27	gray WP-G PP HF PG29	3240993	2
45	36	gray WP-G PP HF PG36	3240994	2
<b>Screw connection, IP65, straight, with metric thread</b>				
Outside diameter of protective hose [mm]	Cable diameter [mm]			
10	6	gray		
14	8	gray		
17	11	gray		
21	15	gray		
27	20	gray		
36	27	gray		
45	35	gray		
<b>Screw connection, IP54, rotatable, with Pg thread</b>				
Outside diameter of protective hose [mm]	Cable diameter [mm]			
10	5.5	gray		
14	9.5	gray		
17	11.5	gray		
21	14.5	gray		
27	19.5	gray		
36	27	gray		
45	35.5	gray		
<b>Screw connection, IP54, rotatable, with metric thread</b>				
Outside diameter of protective hose [mm]	Cable diameter [mm]			
10	5.5	gray		
14	9.5	gray		
17	11.5	gray		
21	14.5	gray		
27	19.5	gray		
36	27	gray		

#### Accessories

Counter nuts and seals

see page 578 onwards





IP65 degree of protection, M10 - M40 metric thread



IP54 degree of protection, Pg7 - Pg36 thread, rotatable



IP54 degree of protection, M12 - M40 metric thread, rotatable



Technical data
PP
IP65
Metric
Halogen-free
HB
-10 ... 110

Technical data
PP
IP54
Pg
Halogen-free
HB
-10 ... 110

Technical data
PP
IP54
Metric
Halogen-free
HB
-10 ... 110

Ordering data
---------------

Ordering data
---------------

Ordering data
---------------

Type	Order No.	Pcs. / Pkt.
WP-G PP HF M10	3240995	10
WP-G PP HF M12	3240996	10
WP-G PP HF M16	3240997	10
WP-G PP HF M20	3240998	10
WP-G PP HF M25	3240999	10
WP-G PP HF M32	3241000	2
WP-G PP HF M40	3241001	2

Type	Order No.	Pcs. / Pkt.
WP-GT PP HF PG7	3241002	10
WP-GT PP HF PG9	3241003	10
WP-GT PP HF PG11	3241004	10
WP-GT PP HF PG16	3241005	10
WP-GT PP HF PG21	3241006	10
WP-GT PP HF PG29	3241007	2
WP-GT PP HF PG36	3241008	2

Type	Order No.	Pcs. / Pkt.
WP-GT PP HF M12	3241010	10
WP-GT PP HF M16	3241011	10
WP-GT PP HF M20	3241012	10
WP-GT PP HF M25	3241013	10
WP-GT PP HF M32	3241014	10
WP-GT PP HF M40	3241015	2

Accessories
-------------

Accessories
-------------

Accessories
-------------

see page 578 onwards

see page 578 onwards

see page 578 onwards

## Cable routing, cable protection, cable bundling

### Protective hoses made of steel or stainless steel



The metal protective hoses made of galvanized steel or stainless steel offer optimum protection and have a wide range of uses, thanks to the following properties:

- Interlocked, helix-wound profile
- Highly flexible
- High tensile strength and resistance to lateral pressure

These properties make the products suitable for use in the following areas:

- Machine and system engineering
- Vehicle construction
- Ex area according to EN 60079–14 and EN 61241–14
- Shipbuilding
- Rail vehicles
- Automation
- Electrical systems

<b>Notes:</b>
Pcs. / Pkt. specifies the protective hose length in [m].



**Stainless steel protective hose, outside diameter of 10 - 45 mm**



<b>General data</b>	
Material	Steel, galvanized
Temperature range	-200 ... 220 [°C]

<b>Technical data</b>		
Steel, galvanized		
-200 ... 220		

Description	Color	
<b>Protective hose</b>		
Diameter [mm]	Bending radius [mm]	
Outside/inside	static	
10 / 8	28	silver
14 / 11	34	silver
17 / 14	40	silver
21 / 18	50	silver
27 / 23	63	silver
36 / 31	85	silver
45 / 40	100	silver
<b>Protective hose</b>		
Diameter [mm]	Bending radius [mm]	
Outside/inside	static	
10 / 8	22	silver
14 / 11	25	silver
17 / 14	40	silver
21 / 18	50	silver
27 / 23	63	silver
36 / 31	85	silver
45 / 40	100	silver
<b>End sleeves</b>		
Outside diameter of hose [mm]	Cable diameter [mm]	
10	6.5	brass
14	10	brass
17	12.5	brass
21	16.5	brass
27	21.5	brass
36	29.5	brass
45	38	brass

<b>Ordering data</b>		
Type	Order No.	Pcs. / Pkt.
<b>WP-STEEL ZC 10</b>	<b>3240697</b>	10
<b>WP-STEEL ZC 14</b>	<b>3240865</b>	10
<b>WP-STEEL ZC 17</b>	<b>3240698</b>	10
<b>WP-STEEL ZC 21</b>	<b>3240699</b>	10
<b>WP-STEEL ZC 27</b>	<b>3240866</b>	10
<b>WP-STEEL ZC 36</b>	<b>3240700</b>	10
<b>WP-STEEL ZC 45</b>	<b>3240701</b>	10



**Stainless steel protective hose (V2A), outside diameter of 10 - 45 mm**



**End sleeve for protective hose diameter of 10 - 45 mm**

Technical data			Technical data		
Stainless steel 1.4301/AISI 304 -200 ... 600			Brass -40 ... 250		
Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
WP-STEEL S 10	3240686	10			
WP-STEEL S 14	3240687	10			
WP-STEEL S 17	3240863	10			
WP-STEEL S 21	3240688	10			
WP-STEEL S 27	3240864	10			
WP-STEEL S 36	3240689	10			
WP-STEEL S 45	3240690	10			
			WP-SC BRASS 10	3241065	50
			WP-SC BRASS 14	3241066	50
			WP-SC BRASS 17	3241067	50
			WP-SC BRASS 21	3241068	50
			WP-SC BRASS 27	3241069	25
			WP-SC BRASS 36	3241070	25
			WP-SC BRASS 45	3241071	20

# Installation and mounting material - CABINET add-on

## Cable routing, cable protection, cable bundling

### Screw connections, for protective hoses made of steel or stainless steel



The screw connections are available with or without a rotatable connecting thread and have the following properties:

- Easy mounting of protective hose without tools
- Vibration resistance and high tensile strength, thanks to hose screw-out locking
- Integrated inner sleeve and rotation lock for hose

#### Rotatable screw connections

- The protective hose can still be rotated after panel mounting, thanks to the special screw connections



Notes:
Inner sleeves and seals are supplied as standard.



IP40 degree of protection, Pg7 - Pg36 thread



General data	
Material	Brass
Degree of protection	IP40
Thread type	Pg
Temperature range	-40 ... 125 [°C]

Technical data	
Material	Brass
Degree of protection	IP40
Thread type	Pg
Temperature range	-40 ... 125

Description	Color
-------------	-------

Screw connection, IP40, with Pg thread		
Outside diameter of protective hose [mm]	Cable diameter [mm]	
10	6.5	Brass
14	10	Brass
17	12.5	Brass
21	16	Brass
27	21.5	Brass
36	29	Brass
45	38	Brass

Screw connection, IP40, with metric thread		
Outside diameter of protective hose [mm]	Cable diameter [mm]	
10	6.5	Brass
14	10	Brass
17	12.5	Brass
21	16	Brass
27	21.5	Brass
36	27.5	Brass
45	35	Brass

Screw connection, IP40, rotatable, with Pg thread		
Outside diameter of protective hose [mm]	Cable diameter [mm]	
10	6	Brass
14	9	Brass
17	12	Brass
21	15.5	Brass
27	20.5	Brass
36	27.5	Brass
45	36.5	Brass

Screw connection, IP40, rotatable, with metric thread		
Outside diameter of protective hose [mm]	Cable diameter [mm]	
10	6	Brass
14	9	Brass
17	12	Brass
21	15.5	Brass
27	20.5	Brass
36	27.5	Brass
45	35	Brass

#### Ordering data

Type	Order No.	Pcs. / Pkt.
WP-G BRASS IP40 PG7	3241037	10
WP-G BRASS IP40 PG9	3241038	10
WP-G BRASS IP40 PG11	3241039	10
WP-G BRASS IP40 PG16	3241040	10
WP-G BRASS IP40 PG21	3241041	10
WP-G BRASS IP40 PG29	3241042	2
WP-G BRASS IP40 PG36	3241043	2



IP40 degree of protection, M10 - M40 metric thread



IP40 degree of protection, Pg7 - Pg36 thread, rotatable



IP40 degree of protection, M10 - M40 metric thread, rotatable



Technical data
Brass
IP40
Metric
-40 ... 125

Technical data
Brass
IP40
Pg
-40 ... 250

Technical data
Brass
IP40
Metric
-40 ... 250

Ordering data		
Type	Order No.	Pcs. / Pkt.

Ordering data		
Type	Order No.	Pcs. / Pkt.

Ordering data		
Type	Order No.	Pcs. / Pkt.

WP-G BRASS IP40 M10	3241044	10
WP-G BRASS IP40 M12	3241045	10
WP-G BRASS IP40 M16	3241046	10
WP-G BRASS IP40 M20	3241047	10
WP-G BRASS IP40 M25	3241048	10
WP-G BRASS IP40 M32	3241049	2
WP-G BRASS IP40 M40	3241050	2

WP-GT BRASS PG7	3241023	10
WP-GT BRASS PG9	3241024	10
WP-GT BRASS PG11	3241025	10
WP-GT BRASS PG16	3241026	10
WP-GT BRASS PG21	3241027	10
WP-GT BRASS PG29	3241028	2
WP-GT BRASS PG36	3241029	2

WP-GT BRASS M10	3241030	10
WP-GT BRASS M12	3241031	10
WP-GT BRASS M16	3241032	10
WP-GT BRASS M20	3241033	10
WP-GT BRASS M25	3241034	10
WP-GT BRASS M32	3241035	2
WP-GT BRASS M40	3241036	2

# Installation and mounting material - CABINET add-on

## Cable routing, cable protection, cable bundling

### Protective hoses made of steel with PVC coating and screw connections

- Optimum protection
- Numerous possible applications
- Tool-free assembly of screw connection and protective hose
- Screw connection for high resistance

<b>Notes:</b>
Pcs. / Pkt. specifies the protective hose length in [m].
Inner sleeves and seals are supplied as standard.



Stainless steel protective hose (V2A), PVC coated, outside diameter of 10 - 45 mm



IP65 degree of protection, Pg7 - Pg36 thread and M10 - M40 metric thread



General data			Technical data			Technical data		
Material			Steel, galvanized/PVC			Brass		
Degree of protection			-			IP65		
Thread type			-			Pg		
Temperature range	[°C]		-25 ... 80			-40 ... 125		
Ordering data			Ordering data			Ordering data		
Description	Color		Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
<b>Protective hose, in galvanized steel, PVC coated</b>								
Diameter [mm]	Bending radius [mm]							
Outside/inside	static							
10 / 7	95	Black	WP-STEEL PVC C 10	3240867	10			
14 / 10	105	Black	WP-STEEL PVC C 14	3240868	10			
17 / 13	115	Black	WP-STEEL PVC C 17	3240869	10			
21 / 17	110	Black	WP-STEEL PVC C 21	3240870	10			
27 / 22	135	Black	WP-STEEL PVC C 27	3240871	10			
36 / 29	145	Black	WP-STEEL PVC C 36	3240872	10			
45 / 38	215	Black	WP-STEEL PVC C 45	3240873	10			
<b>End sleeves, in brass</b>								
Outside diameter of hose [mm]	Cable diameter [mm]							
10	6	Brass	WP-SC BRASS WP PVC 10	3241072	50			
14	8.5	Brass	WP-SC BRASS WP PVC 14	3241073	50			
17	11.5	Brass	WP-SC BRASS WP PVC 17	3241074	50			
21	15.5	Brass	WP-SC BRASS WP PVC 21	3241075	50			
27	20.5	Brass	WP-SC BRASS WP PVC 27	3241076	25			
36	27.5	Brass	WP-SC BRASS WP PVC 36	3241077	25			
45	36.5	Brass	WP-SC BRASS WP PVC 45	3241078	20			
<b>Screw connection, IP65, with Pg thread</b>								
Outside diameter of protective hose [mm]	Cable diameter [mm]							
10	6	Brass				WP-G BRASS IP65 PG7	3241051	10
14	8.5	Brass				WP-G BRASS IP65 PG9	3241052	10
17	11.5	Brass				WP-G BRASS IP65 PG11	3241053	10
21	15.5	Brass				WP-G BRASS IP65 PG16	3241054	10
27	20.5	Brass				WP-G BRASS IP65 PG21	3241055	10
36	27.5	Brass				WP-G BRASS IP65 PG29	3241056	2
45	35	Brass				WP-G BRASS IP65 PG36	3241057	2
<b>Screw connection, IP65, with metric thread</b>								
Outside diameter of protective hose [mm]	Cable diameter [mm]							
10	6	Brass				WP-G BRASS IP65 M10	3241058	10
14	8.5	Brass				WP-G BRASS IP65 M12	3241059	10
17	11.5	Brass				WP-G BRASS IP65 M16	3241060	10
21	15.5	Brass				WP-G BRASS IP65 M20	3241061	10
27	20.5	Brass				WP-G BRASS IP65 M25	3241062	10
36	27.5	Brass				WP-G BRASS IP65 M32	3241063	2
45	35	Brass				WP-G BRASS IP65 M40	3241064	2

### Spiral hoses



Easy bundling and routing of cables and conductors

- Fast and easy to use
- Can be retrofitted
- The spiral structure means that individual conductors and cables can be led out at any point
- Offer protection under light mechanical strain

#### Notes:

Pcs. / Pkt. indicates the spiral hose length in [m].



Spiral hose, for bundle diameters of 2 mm - 150 mm

#### General data

Material	PE
Components	Free from silicone and halogen
Inflammability class according to UL 94	HB
Temperature range	-50 ... 85 [°C]

#### Technical data

Material	PE
Components	Free from silicone and halogen
Inflammability class according to UL 94	HB
Temperature range	-50 ... 85 [°C]

#### Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
<b>Spiral hose, for bundle diameters</b>				
2 - 15 mm	Transparent	WG-S HF 15	3241109	50
4 - 20 mm	Transparent	WG-S HF 20	3241111	25
7 - 40 mm	Transparent	WG-S HF 40	3241113	25
12 - 50 mm	Transparent	WG-S HF 50	3241115	25
13 - 70 mm	Transparent	WG-S HF 70	3241117	25
15 - 80 mm	Transparent	WG-S HF 80	3241119	20
20 - 120 mm	Transparent	WG-S HF 120	3241121	25
25 - 150 mm	Transparent	WG-S HF 150	3241123	20
<b>Spiral hose, for bundle diameters</b>				
2 - 15 mm	Black	WG-S HF 15 BK	3241110	50
4 - 20 mm	Black	WG-S HF 20 BK	3241112	25
7 - 40 mm	Black	WG-S HF 40 BK	3241114	25
12 - 50 mm	Black	WG-S HF 50 BK	3241116	25
13 - 70 mm	Black	WG-S HF 70 BK	3241118	25
15 - 80 mm	Black	WG-S HF 80 BK	3241120	20
20 - 120 mm	Black	WG-S HF 120 BK	3241122	25
25 - 150 mm	Black	WG-S HF 150 BK	3241124	20

**Electrician's scissors**, high cutting performance, thanks to micro-serrated cutting area, suitable for copper, aluminum, Kevlar fibers, and plastic, two-component non-slip soft-grip handles, ergonomic design, adjustable screw joint

#### Accessories

Description	Order No.	Pcs. / Pkt.
CUTFOX-ES	1212621	1

## Cable routing, cable protection, cable bundling

### Accessories for protective hose mounting

The WP-BASE C... protective hose holders with cover can be attached using a screw.

- An integrated rib fastening also helps to relieve the strain on the protective hose
- The base of the holder is designed so that it can even be pushed onto a C DIN rail
- The engagement pins enable hose holders of different sizes to be arranged alongside each other

WP-BASE HF... protective hose clips:

- Galvanized steel locking latch with rubber profile
- Screw mounting

WP-BASE ... fixing bracket:

- With two mounting holes according to DIN 46320
- Protective hose feed-through can be attached to the side of the panel
- Pg or metric protective hose screw connections can be mounted on a bracket



Protective hose with cover



General data		
Material		
<b>Protective hose holder</b> with cover, screwable, made of plastic		
Description		Color
Outside diameter of protective hose [mm]	Hole diameter [mm]	
10	10	black
13	13	black
15.8	15.8	black
21.2	21.2	black
28.5	28.2	black
34.5	34.5	black
42.5	42.5	black
<b>Protective hose clip</b> , screwable		
Outside diameter of protective hose [mm]	Hole diameter [mm]	
10	10	silver/black
13	13	silver/black
14	14	silver/black
15.8	15.8	silver/black
17	17	silver/black
22	22	silver/black
29	29	silver/black
36	37	silver/black
45	45	silver/black
<b>Fixing bracket</b> , screwable		
Screw connection	Hole diameter [mm]	
Pg16	23	silver
Pg21	29	silver
Pg29	37.5	silver
Pg36	47.5	silver
<b>Fixing bracket</b> , screwable		
Screw connection	Hole diameter [mm]	
M16	17	silver
M20	21	silver
M25	26	silver
M32	33	silver
M40	43	silver

Technical data		
PA		
Ordering data		
Type	Order No.	Pcs. / Pkt.
WP-BASE C PA HF 10,0 BK	3240958	50
WP-BASE C PA HF 13,0 BK	3240959	50
WP-BASE C PA HF 15,8 BK	3240960	50
WP-BASE C PA HF 21,2 BK	3240961	50
WP-BASE C PA HF 28,2 BK	3240962	25
WP-BASE C PA HF 34,5 BK	3240963	25
WP-BASE C PA HF 42,5 BK	3240964	25





Protective hose clip



Fixing bracket, screw version,  
for Pg screw connection



Fixing bracket, screw version,  
for metric screw connection

### Technical data

Steel, galvanized

### Ordering data

Type	Order No.	Pcs. / Pkt.
WP-BASE HF 9-10	3240965	50
WP-BASE HF 13	3240966	50
WP-BASE HF 14	3240967	50
WP-BASE HF 15,8	3240968	50
WP-BASE HF 17	3240969	50
WP-BASE HF 22	3240970	50
WP-BASE HF 29	3240971	50
WP-BASE HF 37	3240972	50
WP-BASE HF 45	3240973	25

### Technical data

Steel, galvanized

### Ordering data

Type	Order No.	Pcs. / Pkt.
WP-BASE A PG16	3241079	25
WP-BASE A PG21	3241080	25
WP-BASE A PG29	3241081	25
WP-BASE A PG36	3241082	25

### Technical data

Steel, galvanized

### Ordering data

Type	Order No.	Pcs. / Pkt.
WP-BASE A M16	3241083	25
WP-BASE A M20	3241084	25
WP-BASE A M25	3241085	25
WP-BASE A M32	3241086	25
WP-BASE A M40	3241087	25

### Accessories for protective hose mounting



Counter nut, M12 - M40, plastic

#### WP-CN ...

The counter nuts are used to lock protective hose screw connections in the case of bore holes without a thread.

- Counter nuts made of brass or plastic
- The fiberglass-reinforced polyamide ensures a high degree of mechanical stability
- Metric thread according to EN 50262, making the counter nut suitable for universal use

#### General data

Material

#### Technical data

Polyamide fiberglass reinforced

#### Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
<b>Counter nut, plastic, for protective hose screw connections with metric thread</b>				
for M12	gray	WP-CN PA M12	3241132	100
for M16	gray	WP-CN PA M16	3241133	100
for M20	gray	WP-CN PA M20	3241134	100
for M25	gray	WP-CN PA M25	3241135	100
for M32	gray	WP-CN PA M32	3241136	100
for M40	gray	WP-CN PA M40	3241137	50
<b>Counter nut, plastic, for protective hose screw connections with Pg thread</b>				
for Pg7	gray			
for Pg9	gray			
for Pg11	gray			
for Pg16	gray			
for Pg21	gray			
for Pg29	gray			
for Pg36	gray			
<b>Counter nut, nickel-plated brass, for protective hose screw connections with metric thread</b>				
for M10	silver			
for M12	silver			
for M16	silver			
for M20	silver			
for M25	silver			
for M32	silver			
for M40	silver			
<b>Counter nut, nickel-plated brass, for protective hose screw connections with Pg thread</b>				
for Pg7	silver			
for Pg9	silver			
for Pg11	silver			
for Pg16	silver			
for Pg21	silver			
for Pg29	silver			
for Pg36	silver			



Counter nut, Pg7 - Pg36, plastic



Counter nut, M10 - M40, brass



Counter nut, Pg7 - Pg36, brass

Technical data			Technical data			Technical data		
Polyamide fiberglass reinforced			Nickel-plated brass			Nickel-plated brass		
Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
WP-CN PA PG7	3241138	100						
WP-CN PA PG9	3241139	100						
WP-CN PA PG11	3241140	100						
WP-CN PA PG16	3241141	100						
WP-CN PA PG21	3241142	100						
WP-CN PA PG29	3241143	100						
WP-CN PA PG36	3241144	50						
			WP-CN BRASS M10	3241145	100			
			WP-CN BRASS M12	3241146	100			
			WP-CN BRASS M16	3241147	100			
			WP-CN BRASS M20	3241148	100			
			WP-CN BRASS M25	3241149	100			
			WP-CN BRASS M32	3241150	100			
			WP-CN BRASS M40	3241151	50			
						WP-CN BRASS PG7	3241152	100
						WP-CN BRASS PG9	3241153	100
						WP-CN BRASS PG11	3241154	100
						WP-CN BRASS PG16	3241155	100
						WP-CN BRASS PG21	3241156	100
						WP-CN BRASS PG29	3241157	100
						WP-CN BRASS PG36	3241158	50

## Cable routing, cable protection, cable bundling

### Accessories for protective hose mounting



#### WP-FS ...

The Perbunan flat sealing rings are used to seal protective hose screw connections on uneven surfaces. They are inserted between the hose screw connection and the surface, thereby achieving degrees of protection up to IP68.

#### WP-FS HF...

The Centellen flat sealing rings also provide an optimum seal on uneven surfaces. As well as having IP68 protection and high mechanical stability, the sealing rings are also UV resistant and halogen-free. This enables them to be used outdoors.

#### Properties:

- Resistant to oil, seal against dust and water; UV resistant, halogen-free, high mechanical stability

#### WP-OR...

The properties of the Perbunan O-rings, such as their resistance to oil and seal against water and dust, mean that they can be used in a wide range of applications.



Flat gasket made from Perbunan

#### General data

Material

#### Technical data

Perbunan

#### Ordering data

Description	Color
-------------	-------

**Flat gasket, Perbunan**, for protective hose screw connections with metric thread

for M10	black
for M12	black
for M16	black
for M20	black
for M25	black
for M32	black
for M40	black

**Flat gasket, Perbunan**, for protective hose screw connections with Pg thread

for Pg7	black
for Pg9	black
for Pg11	black
for Pg16	black
for Pg21	black
for Pg29	black
for Pg36	black

**Flat gasket, Centellen**, for protective hose screw connections with metric thread

for M10	green
for M12	green
for M16	green
for M20	green
for M25	green
for M32	green
for M40	green

**Flat gasket, Centellen**, for protective hose screw connections with Pg thread

for Pg7	green
for Pg9	green
for Pg11	green
for Pg16	green
for Pg21	green
for Pg29	green
for Pg36	green

**O-ring, Perbunan**, for protective hose screw connections with metric thread

for M10	black
for M12	black
for M16	black
for M20	black
for M25	black
for M32	black
for M40	black

**O-ring, Perbunan**, for protective hose screw connections with Pg thread

for Pg7	black
for Pg9	black
for Pg11	black
for Pg16	black
for Pg21	black
for Pg29	black
for Pg36	black

Type	Order No.	Pcs. / Pkt.
------	-----------	-------------

WP-FS IP68 M10	3241159	50
WP-FS IP68 M12	3241160	50
WP-FS IP68 M16	3241161	50
WP-FS IP68 M20	3241162	50
WP-FS IP68 M25	3241163	50
WP-FS IP68 M32	3241164	25
WP-FS IP68 M40	3241165	25
WP-FS IP68 PG7	3241166	50
WP-FS IP68 PG9	3241167	50
WP-FS IP68 PG11	3241168	50
WP-FS IP68 PG16	3241169	50
WP-FS IP68 PG21	3241170	25
WP-FS IP68 PG29	3241171	25
WP-FS IP68 PG36	3241172	25



Flat gasket made from Centellen



O-ring made from Perbunan

Technical data			Technical data		
Centellen			Perbunan		
Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
WP-FS HF IP68 M10	3241173	50			
WP-FS HF IP68 M12	3241174	50			
WP-FS HF IP68 M16	3241175	50			
WP-FS HF IP68 M20	3241176	50			
WP-FS HF IP68 M25	3241177	50			
WP-FS HF IP68 M32	3241178	25			
WP-FS HF IP68 M40	3241179	25			
WP-FS HF IP68 PG7	3241180	50			
WP-FS HF IP68 PG9	3241181	50			
WP-FS HF IP68 PG11	3241182	50			
WP-FS HF IP68 PG16	3241183	50			
WP-FS HF IP68 PG21	3241184	25			
WP-FS HF IP68 PG29	3241185	25			
WP-FS HF IP68 PG36	3241186	25			
			WP-OR M10	3241187	50
			WP-OR M12	3241188	50
			WP-OR M16	3241189	50
			WP-OR M20	3241190	50
			WP-OR M25	3241191	50
			WP-OR M32	3241192	25
			WP-OR M40	3241193	25
			WP-OR PG7	3241194	50
			WP-OR PG9	3241195	50
			WP-OR PG11	3241196	50
			WP-OR PG16	3241197	50
			WP-OR PG21	3241198	25
			WP-OR PG29	3241199	25
			WP-OR PG36	3241200	25

## Cable routing, cable protection, cable bundling

### Plastic cable marker for insert labels, for assembly with cable binders



- Plastic cable markers for marking and bundling multiple conductors and cables indoors
- The printed insert label is protected from dirt by the sealing cap
- Marking service: Phoenix Contact can custom-mark all insert labels for plastic cable markers in accordance with your requirements

<b>Notes:</b>
For corresponding cable binders, see from page 588.



For insert labels with lettering field size 29 x 8 mm, for cable diameters > 10 mm

<b>General data</b>	
Material	Polyethylene
Temperature range	-40 ... 80 [°C]
Components	Free from silicone and halogen

<b>Technical data</b>		
-----------------------	--	--

Description	Color
<b>Plastic cable markers for insert labels</b> , with cable binders with a pointed end, can be marked with ESL..., EMT... or US-EMP... insert labels, diameter: 10 ... 25 mm, lettering field size: 29 x 8 mm	transparent

<b>Plastic cable markers for insert labels</b> , with cable binders with a pointed end, can be marked with ESL..., EMT... or US-EMP... insert labels, diameter: 16 ... 35 mm, lettering field size: 40 x 17 mm	transparent
--	-------------

<b>Cable and conductor markers for insert labels</b> , can be marked with EST or ESL, diameter of 1 - 12 mm, lettering field size: 24 x 4 mm	transparent
--	-------------

<b>Cable and conductor markers for labels</b> , can be marked with EML or EMLC, diameter of 1 - 20 mm, lettering field size: 20 x 8 mm	white
	white

<b>Ordering data</b>		
----------------------	--	--

Type	Order No.	Pcs. / Pkt.
<b>KMK</b>	<b>1005208</b>	100

<b>Insert strips for laser printers</b> , DIN A4, perforated
Lettering field size: 29 x 8 mm, 1 sheet = 174 labels
Lettering field size: 40 x 17 mm, 1 sheet = 56 labels
Lettering field size: 24 x 4 mm, 1 sheet = 488 labels

<b>Insert labels for thermal transfer printers</b>
Lettering field size: 29 x 8 mm, 5400 labels per roll
Lettering field size: 40 x 17 mm, 2300 labels per roll
Lettering field size: 24 x 4 mm, 5000 labels p. roll

<b>UniSheet</b> , 0.5 mm thick
48-section, lettering field size: 29 x 8 mm
16-section, lettering field size: 40 x 17 mm
<b>Textile label</b> , lettering field size: 20 x 8 mm
2500 labels per roll
2500 labels per roll

<b>Accessories</b>		
--------------------	--	--

<b>ESL 29X8</b>	<b>0808257</b>	10
<b>EMT (29X8)R</b>	<b>0817277</b>	1
<b>US-EMP (29X8)</b>	<b>0829436</b>	10





Insert label, with lettering field size 40 x 17 mm, for cable diameters > 16 mm



For insert labels with lettering field size 24 x 4 mm, for cable diameters > 1 mm



For adhesive labels, with lettering field size 20 x 8 mm, for cable diameters > 1 mm

Technical data		
Polyethylene		
-40 ... 80		
Free from silicone and halogen		

Ordering data		
Type	Order No.	Pcs. / Pkt.

KMK 3	1005211	50
-------	---------	----

### Accessories

ESL 40X17	0808095	10
EMT (40X17)R	0817293	1
US-EMP (40X17)	0829437	10

Technical data		
PA		
-40 ... 100		
Free from silicone and halogen		

Ordering data		
Type	Order No.	Pcs. / Pkt.

LM	1004377	100
----	---------	-----

### Accessories

ESL 24X4	0808231	10
EMT (24X4)R	0816265	1

Technical data		
PA		
-40 ... 100		
Free from silicone and halogen		

Ordering data		
Type	Order No.	Pcs. / Pkt.

KME	0807083	50
-----	---------	----

### Accessories

EMLC (20X8)R	0815680	1
EML (20X8)R	0816786	1

## Cable routing, cable protection, cable bundling

### Plastic cable markers for insert labels, for assembly with cable binders



- KMK HP ... plastic cable markers for marking and bundling conductors and cables indoors
- Inflammability class V0 acc. to UL 94
- The KMK HP... cable markers are particularly suitable for use in the railway industry, traffic technology, and building technology thanks to their outstanding material properties
- The KMK... versions have eyelets and are attached with cable binders
- The printed insert label is protected from dirt by the sealing cap
- Marking service: Phoenix Contact can custom-mark all insert labels for plastic cable markers in accordance with your requirements



Notes:
For corresponding cable binders, see from page 588.



Lettering field size: 25 x 6 mm, for cable diameter > 6 mm

General data	
Material	PC
Inflammability class according to UL 94	V0
Temperature range	-40 ... 125 [°C]
Components	Halogen-free

Technical data		
----------------	--	--

Description	Color
<b>Cable marker carrier</b> for cable binder assembly	transparent

Ordering data		
Type	Order No.	Pcs. / Pkt.
<b>KMK HP (25X6)</b>	0830720	100

**UniCard**, insert strip for KMK... cable marker carriers, can be marked with THERMOMARK CARD..., BLUEMARK CLED, and TOPMARK Laser  
 Lettering field size: 25 x 6 mm, 15-section  
 Lettering field size: 29 x 8 mm, 15-section  
 Lettering field size: 60 x 15 mm, 3-section  
 Lettering field size: 40 x 17 mm, 3-section

Accessories		
<b>UCT-EMP (25X6)</b>	1014117	10

**UniSheet**, 0.5 mm thick, inflammability class V0 according to UL 94  
 84-section, lettering field size: 25 x 6 mm  
 48-section, lettering field size: 29 x 8 mm  
 9-section, lettering field size: 60 x 15 mm  
 16-section, lettering field size: 40 x 17 mm

<b>US-EMP (25X6)-1</b>	0802754	10
------------------------	---------	----

**Insert labels for thermal transfer printer**, halogen-free

Lettering field size: 25 x 6 mm, 5000 labels per roll  
 Lettering field size: 29 x 8 mm, 5400 labels per roll  
 Lettering field size: 60 x 15 mm, 2500 labels per roll  
 Lettering field size: 40 x 17 mm, 2300 labels per roll

<b>EMT (25X6)R</b>	0817264	1
--------------------	---------	---

**Cable binder**, inflammability class according to UL 94: V0, halogen-free, temperature range: -40°C ... 85°C, maximum bundle Ø [mm]/minimum tensile strength [N]

35 / 130  
 50 / 220  
 79 / 220

<b>WT-HP HF 3,6X140</b>	0830982	100
<b>WT-HP HF 4,8X200</b>	0830983	100
<b>WT-HP HF 4,5X290</b>	0830984	100

**Magazine**, for THERMOMARK CARD ..., for accommodating UCT-EMP ...

<b>THERMOMARK CARD-UCT-MAG26</b>	0802988	1
----------------------------------	---------	---





Lettering field size: 29 x 8 mm,  
for cable diameter > 6 mm



Lettering field size: 60 x 15 mm,  
for cable diameter > 9 mm



Lettering field size: 40 x 17 mm,  
for cable diameter > 9 mm

Technical data		
PC		
V0		
-40 ... 125		
Halogen-free		

Ordering data		
Type	Order No.	Pcs. / Pkt.
KMK HP (29X8)	0830721	100

Accessories		
Type	Order No.	Pcs. / Pkt.
UCT-EMP (29X8)	1014118	10
US-EMP (29X8)	0829436	10
EMT (29X8)R	0817277	1
WT-HP HF 3,6X140	0830982	100
WT-HP HF 4,8X200	0830983	100
WT-HP HF 4,5X290	0830984	100
THERMOMARK CARD-UCT-MAG26	0802988	1

Technical data		
PC		
V0		
-40 ... 125		
Halogen-free		

Ordering data		
Type	Order No.	Pcs. / Pkt.
KMK HP (60X15)	0830722	50

Accessories		
Type	Order No.	Pcs. / Pkt.
UCT-EMP (60X15)	1014119	10
US-EMP (60X15)	0828781	10
EMT (60X15)R	0801846	1
WT-HP HF 3,6X140	0830982	100
WT-HP HF 4,8X200	0830983	100
WT-HP HF 4,5X290	0830984	100
THERMOMARK CARD-UCT-MAG26	0802988	1

Technical data		
PC		
V0		
-40 ... 125		
Halogen-free		

Ordering data		
Type	Order No.	Pcs. / Pkt.
KMK HP (40X17)	0830723	50

Accessories		
Type	Order No.	Pcs. / Pkt.
UCT-EMP (40X17)	1014120	10
US-EMP (40X17)	0829437	10
EMT (40X17)R	0817293	1
WT-HP HF 3,6X140	0830982	100
WT-HP HF 4,8X200	0830983	100
WT-HP HF 4,5X290	0830984	100
THERMOMARK CARD-UCT-MAG26	0802988	1

## Cable routing, cable protection, cable bundling

### Plastic cable markers for insert labels, for assembly with cable binders



- KMK UV ... plastic cable markers for marking and bundling conductors and cables outdoors
- The KMK UV... cable markers are ultra-transparent, impact resistant, and have excellent weathering resistance. At the same time, they also possess outstanding chemical resistance
- The KMK... versions have eyelets and are attached with cable binders
- The printed insert label is protected from dirt by the sealing cap
- Marking service: Phoenix Contact can custom-mark all insert labels for plastic cable markers in accordance with your requirements



Notes:
For corresponding cable binders, see from page 588.
1) WT-UV HF...BK cable binders are weatherproof and UV resistant according to ISO 4892 (after QUV-B 600 hours) for up to 10 years.



Lettering field size: 25 x 6 mm, for cable diameter > 6 mm

General data	
Material	PA
Inflammability class according to UL 94	HB
Temperature range	-40 ... 100 [°C]
Components	Halogen-free

Technical data
PA
HB
-40 ... 100
Halogen-free

Description	Color
<b>Cable marker carrier</b> for cable binder assembly	transparent

Ordering data		
Type	Order No.	Pcs. / Pkt.
<b>KMK UV (25X6)</b>	1014106	100

**UniCard**, insert strip for KMK... cable marker carriers, can be marked with THERMOMARK CARD..., BLUEMARK CLED, and TOPMARK Laser

Lettering field size: 25 x 6 mm, 15-section  
 Lettering field size: 29 x 8 mm, 15-section  
 Lettering field size: 60 x 15 mm, 3-section  
 Lettering field size: 40 x 17 mm, 3-section

Accessories		
<b>UCT-EMP (25X6)</b>	1014117	10

**UniSheet**, 0.5 mm thick, inflammability class V0 according to UL 94

84-section, lettering field size: 25 x 6 mm  
 48-section, lettering field size: 29 x 8 mm  
 9-section, lettering field size: 60 x 15 mm  
 16-section, lettering field size: 40 x 17 mm

<b>US-EMP (25X6)-1</b>	0802754	10
------------------------	---------	----

**Insert labels for thermal transfer printer**, halogen-free

Lettering field size: 25 x 6 mm, 5000 labels per roll  
 Lettering field size: 29 x 8 mm, 5400 labels per roll  
 Lettering field size: 60 x 15 mm, 2500 labels per roll  
 Lettering field size: 40 x 17 mm, 2300 labels per roll

<b>EMT (25X6)R</b>	0817264	1
--------------------	---------	---

**Cable binder**, halogen-free, inflammability class according to UL 94: V2, maximum bundle Ø [mm] / min. tensile strength [N]¹)

35 / 130  
 50 / 220  
 79 / 220

<b>WT-UV HF 3,6X140 BK</b>	3240832	100
<b>WT-UV HF 4,5X200 BK</b>	3240834	100
<b>WT-UV HF 4,5X290 BK</b>	3240835	100

**Magazine**, for THERMOMARK CARD ..., for accommodating UCT-EMP ...

<b>THERMOMARK CARD-UCT-MAG26</b>	0802988	1
----------------------------------	---------	---



Lettering field size: 29 x 8 mm,  
for cable diameter > 6 mm



Lettering field size: 60 x 15 mm,  
for cable diameter > 9 mm



Lettering field size: 40 x 17 mm,  
for cable diameter > 9 mm

Technical data		
PA		
HB		
-40 ... 100		
Halogen-free		

Ordering data		
Type	Order No.	Pcs. / Pkt.
KMK UV (29X8)	1014107	100

Accessories		
UCT-EMP (29X8)	1014118	10
US-EMP (29X8)	0829436	10
EMT (29X8)R	0817277	1
WT-UV HF 3,6X140 BK	3240832	100
WT-UV HF 4,5X200 BK	3240834	100
WT-UV HF 4,5X290 BK	3240835	100
THERMOMARK CARD-UCT-MAG26	0802988	1

Technical data		
PA		
HB		
-40 ... 100		
Halogen-free		

Ordering data		
Type	Order No.	Pcs. / Pkt.
KMK UV (60X15)	1014108	50

Accessories		
UCT-EMP (60X15)	1014119	10
US-EMP (60X15)	0828781	10
EMT (60X15)R	0801846	1
WT-UV HF 3,6X140 BK	3240832	100
WT-UV HF 4,5X200 BK	3240834	100
WT-UV HF 4,5X290 BK	3240835	100
THERMOMARK CARD-UCT-MAG26	0802988	1

Technical data		
PA		
HB		
-40 ... 100		
Halogen-free		

Ordering data		
Type	Order No.	Pcs. / Pkt.
KMK UV (40X17)	1014109	50

Accessories		
UCT-EMP (40X17)	1014120	10
US-EMP (40X17)	0829437	10
EMT (40X17)R	0817293	1
WT-UV HF 3,6X140 BK	3240832	100
WT-UV HF 4,5X200 BK	3240834	100
WT-UV HF 4,5X290 BK	3240835	100
THERMOMARK CARD-UCT-MAG26	0802988	1

### Plastic cable binders



- For bundling and fastening conductors and cables
- Can be used indoors and outdoors even under unfavorable industrial conditions
- With the UNIFOX-CT ... cable binder tool, the cable binders can be easily tightened and cut off flush in one step
- Cable binders are easy to use, thanks to their optimized geometries
- Optimum head shape for high tensile forces
- Temperature range: briefly up to 110°C
- Comprehensive approvals
- **Designation example:**  
**WT-HF 2,5X98**  
Cable binder width: 2.5 mm  
Cable binder length: 98 mm



General data	
Material	
Components	
Inflammability class according to UL 94	
Temperature range	[°C]

Description	Color	Type	Order No.	Pcs. / Pkt.
<b>Cable binder, maximum bundle Ø [mm]/minimum tensile strength [N]</b>				
21 / 80	transparent	WT-HF 2,5X98	3240732	100
40 / 80	transparent	WT-HF 2,6X160	3240736	100
52 / 80	transparent	WT-HF 2,6X200	3240740	100
35 / 130	transparent	WT-HF 3,6X140	3240744	100
50 / 130	transparent	WT-HF 3,6X200	3240748	100
80 / 130	transparent	WT-HF 3,6X290	3240752	100
40 / 220	transparent	WT-HF 4,5X160	3240756	100
50 / 220	transparent	WT-HF 4,5X200	3240760	100
79 / 220	transparent	WT-HF 4,5X290	3240764	100
100 / 220	transparent	WT-HF 4,5X360	3240768	100
115 / 220	transparent	WT-HF 4,5X430	3240770	100
80 / 540	transparent	WT-HF 7,8X300	3240772	100
100 / 540	transparent	WT-HF 7,8X365	3240774	100
158 / 540	transparent	WT-HF 7,8X540	3240719	100
233 / 700	transparent	WT-HF 9X780	3240778	100
143 / 1080	transparent	WT-HF 12,6X850	3240730	50
302 / 1080	transparent	WT-HF 12,6X1000	3240728	50
<b>Cable binder, large pack, maximum bundle Ø [mm]/minimum tensile strength [N]</b>				
21 / 80	transparent	WT-HF 2,5X98-L	3240735	1000
40 / 80	transparent	WT-HF 2,6X160-L	3240739	1000
52 / 80	transparent	WT-HF 2,6X200-L	3240743	1000
35 / 130	transparent	WT-HF 3,6X140-L	3240747	1000
50 / 130	transparent	WT-HF 3,6X200-L	3240751	1000
80 / 130	transparent	WT-HF 3,6X290-L	3240755	500
40 / 220	transparent	WT-HF 4,5X160-L	3240759	1000
50 / 220	transparent	WT-HF 4,5X200-L	3240763	1000

**Cable binder pliers**, for plastic cable binders with a width of 2.2 - 4.8 mm, for a material thickness of up to 1.6 mm

**Professional cable binder tools**, for plastic cable binders with a width of 2.2 - 4.8 mm, up to 1.6 mm material thickness

Ergonomically designed grip with comfortable tension force adjustment



Technical data	
Material	PA 6.6
Components	Free from silicone and halogen
Inflammability class according to UL 94	V2
Temperature range	-40 ... 85

Ordering data		
Type	Order No.	Pcs. / Pkt.
WT-HF 2,5X98	3240732	100
WT-HF 2,6X160	3240736	100
WT-HF 2,6X200	3240740	100
WT-HF 3,6X140	3240744	100
WT-HF 3,6X200	3240748	100
WT-HF 3,6X290	3240752	100
WT-HF 4,5X160	3240756	100
WT-HF 4,5X200	3240760	100
WT-HF 4,5X290	3240764	100
WT-HF 4,5X360	3240768	100
WT-HF 4,5X430	3240770	100
WT-HF 7,8X300	3240772	100
WT-HF 7,8X365	3240774	100
WT-HF 7,8X540	3240719	100
WT-HF 9X780	3240778	100
WT-HF 12,6X850	3240730	50
WT-HF 12,6X1000	3240728	50
WT-HF 2,5X98-L	3240735	1000
WT-HF 2,6X160-L	3240739	1000
WT-HF 2,6X200-L	3240743	1000
WT-HF 3,6X140-L	3240747	1000
WT-HF 3,6X200-L	3240751	1000
WT-HF 3,6X290-L	3240755	500
WT-HF 4,5X160-L	3240759	1000
WT-HF 4,5X200-L	3240763	1000

Accessories		
Type	Order No.	Pcs. / Pkt.
UNIFOX-CT 4,8	1212475	1
UNIFOX-CT 4,8P	1212609	1



Cable tie length of 98 - 1000 mm

### Plastic cable binders



- The black cable binders are UV stabilized by adding carbon black and are suitable for use in outdoor systems according to ISO 4895 (QUV-B 150 hours) for up to three years
- Temperature range: briefly up to 110°C
- Comprehensive approvals



Cable tie length of 98 - 1000 mm



General data	
Material	
Components	
Inflammability class according to UL 94	
Temperature range	[°C]

Technical data	
Material	PA 6.6
Components	Free from silicone and halogen
Inflammability class according to UL 94	V2
Temperature range	-40 ... 85

Description	Color
<b>Cable binder</b> , maximum bundle Ø [mm]/minimum tensile strength [N]	
21 / 80	black
40 / 80	black
52 / 80	black
35 / 130	black
50 / 130	black
80 / 130	black
40 / 220	black
50 / 220	black
79 / 220	black
100 / 220	black
115 / 220	black
80 / 540	black
100 / 540	black
158 / 540	black
233 / 700	black
143 / 1080	black
302 / 1080	black
<b>Cable binder, large pack</b> , maximum bundle Ø [mm]/minimum tensile strength [N]	
21 / 80	black
40 / 80	black
52 / 80	black
35 / 130	black
50 / 130	black
80 / 130	black
40 / 220	black
50 / 220	black
<b>Cable binder</b> , inflammability class according to UL 94: V0, halogen-free, temperature range: -40°C ... 85°C, maximum bundle Ø [mm]/minimum tensile strength [N]	
35 / 130	transparent
79 / 220	transparent
50 / 220	transparent

Ordering data		
Type	Order No.	Pcs. / Pkt.
WT-HF 2,5X98 BK	3240733	100
WT-HF 2,6X160 BK	3240737	100
WT-HF 2,6X200 BK	3240741	100
WT-HF 3,6X140 BK	3240745	100
WT-HF 3,6X200 BK	3240749	100
WT-HF 3,6X290 BK	3240753	100
WT-HF 4,5X160 BK	3240757	100
WT-HF 4,5X200 BK	3240761	100
WT-HF 4,5X290 BK	3240765	100
WT-HF 4,5X360 BK	3240769	100
WT-HF 4,5X430 BK	3240771	100
WT-HF 7,8X300 BK	3240773	100
WT-HF 7,8X365 BK	3240775	100
WT-HF 7,8X540 BK	3240721	100
WT-HF 9X780 BK	3240779	100
WT-HF 12,6X850 BK	3240731	50
WT-HF 12,6X1000 BK	3240729	50
WT-HF 2,5X98 BK-L	3240734	1000
WT-HF 2,6X160 BK-L	3240738	1000
WT-HF 2,6X200 BK-L	3240742	1000
WT-HF 3,6X140 BK-L	3240746	1000
WT-HF 3,6X200 BK-L	3240750	1000
WT-HF 3,6X290 BK-L	3240754	500
WT-HF 4,5X160 BK-L	3240758	1000
WT-HF 4,5X200 BK-L	3240762	1000
WT-HP HF 3,6X140	0830982	100
WT-HP HF 4,5X290	0830984	100
WT-HP HF 4,8X200	0830983	100

<b>Cable binder pliers</b> , for plastic cable binders with a width of 2.2 - 4.8 mm, for a material thickness of up to 1.6 mm
<b>Professional cable binder tools</b> , for plastic cable binders with a width of 2.2 - 4.8 mm, up to 1.6 mm material thickness
Ergonomically designed grip with comfortable tension force adjustment

Accessories		
UNIFOX-CT 4,8	1212475	1
UNIFOX-CT 4,8P	1212609	1

# Installation and mounting material - CABINET add-on

## Cable routing, cable protection, cable bundling

### Cable binders for outdoor use



The WT-UV HF ... cable binders are specially designed for outdoor use and offer the following features:

- Weatherproof and UV resistant according to ISO 4892 (QUV-B 600 hours) for up to ten years
- Cable binders are easy to use, thanks to their optimum geometries
- Optimum head shape for high tensile forces

- Halogen-free/silicone-free
- Constantly high temperature resistance up to 105°C
- **Designation example:**  
**WT-UV HF 2,5X98 BK**  
Cable binder width: 2.5 mm  
Cable binder length: 98 mm



Cable tie length of 98 - 365 mm

General data	
Material	PA 6.6
Components	Free from silicone and halogen
Inflammability class according to UL 94	V2
Temperature range	-40 ... 105 [°C]

Technical data	
Material	PA 6.6
Components	Free from silicone and halogen
Inflammability class according to UL 94	V2
Temperature range	-40 ... 105

Description	Color
<b>Cable binder</b> , maximum bundle Ø [mm]/minimum tensile strength [N]	
21 / 80	black
35 / 130	black
50 / 130	black
50 / 220	black
79 / 220	black
100 / 540	black

Ordering data		
Type	Order No.	Pcs. / Pkt.
WT-UV HF 2,5X98 BK	3240831	100
WT-UV HF 3,6X140 BK	3240832	100
WT-UV HF 3,6X200 BK	3240833	100
WT-UV HF 4,5X200 BK	3240834	100
WT-UV HF 4,5X290 BK	3240835	100
WT-UV HF 7,8X365 BK	3240837	100

Thanks to their UL 94 V0 inflammability class and absence of halogen, the WT-HP HF.. cable binders are particularly suitable for use in the rail industry.

- **Designation example:**  
**WT-HP HF 3,6x140**  
Cable binder width: 3.6 mm  
Cable binder length: 140 mm



General data	
Material	PA 6.6
Components	Free from silicone and halogen
Inflammability class according to UL 94	V0
Temperature range	-40 ... 85 [°C]

Technical data	
Material	PA 6.6
Components	Free from silicone and halogen
Inflammability class according to UL 94	V0
Temperature range	-40 ... 85

Description	Color
<b>Cable binder</b> , inflammability class according to UL 94: V0, halogen-free, temperature range: -40°C ... 85°C, maximum bundle Ø [mm]/minimum tensile strength [N]	
35 / 130	transparent
50 / 220	transparent
79 / 220	transparent

Ordering data		
Type	Order No.	Pcs. / Pkt.
WT-HP HF 3,6X140	0830982	100
WT-HP HF 4,8X200	0830983	100
WT-HP HF 4,5X290	0830984	100

Cable binders for use under high temperatures



The WT-HT HF ... cable binders are specially designed for high-temperature applications and offer the following features:

- Constantly high temperature resistance up to 125°C and briefly up to 145°C
- Cable binders are easy to use, thanks to their optimum geometries
- Black cable binders are UV stabilized
- Special head shape for high tensile forces
- Halogen-free/silicone-free

**Designation example:**  
**WT-HT HF 2,5X98**

Cable binder width: 2.5 mm  
Cable binder length: 98 mm



Cable tie length of 98 - 365 mm

General data	
Material	
Components	
Inflammability class according to UL 94	
Temperature range	[°C]

Technical data	
Material	PA 6.6
Components	Free from silicone and halogen
Inflammability class according to UL 94	V2
Temperature range	-40 ... 125

Description	Color
<b>Cable binder</b> , maximum bundle Ø [mm]/minimum tensile strength [N]	
21 / 80	transparent
35 / 130	transparent
50 / 130	transparent
50 / 220	transparent
79 / 220	transparent
100 / 540	transparent
<b>Cable binder</b> , maximum bundle Ø [mm]/minimum tensile strength [N]	
21 / 80	black
35 / 130	black
50 / 130	black
50 / 220	black
79 / 220	black
100 / 540	black

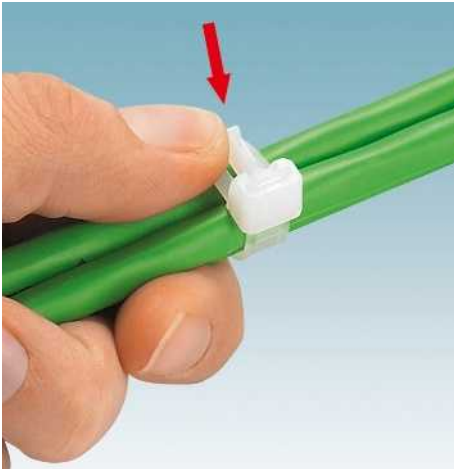
Ordering data		
Type	Order No.	Pcs. / Pkt.
WT-HT HF 2,5X98	3240780	100
WT-HT HF 3,6X140	3240782	100
WT-HT HF 3,6X200	3240784	100
WT-HT HF 4,5X200	3240786	100
WT-HT HF 4,5X290	3240788	100
WT-HT HF 7,8X365	3240792	100
WT-HT HF 2,5X98 BK	3240781	100
WT-HT HF 3,6X140 BK	3240783	100
WT-HT HF 3,6X200 BK	3240785	100
WT-HT HF 4,5X200 BK	3240787	100
WT-HT HF 4,5X290 BK	3240789	100
WT-HT HF 7,8X365 BK	3240793	100

<b>Cable binder pliers</b> , for plastic cable binders with a width of 2.2 - 4.8 mm, for a material thickness of up to 1.6 mm
<b>Professional cable binder tools</b> , for plastic cable binders with a width of 2.2 - 4.8 mm, up to 1.6 mm material thickness
Ergonomically designed grip with comfortable tension force adjustment

Accessories		
Type	Order No.	Pcs. / Pkt.
UNIFOX-CT 4,8	1212475	1
UNIFOX-CT 4,8P	1212609	1

## Cable routing, cable protection, cable bundling

### Cable binders for reopening



The WT-D HF ... cable binders are ideal for temporary mounting and offer the following features:

- Can be removed easily without tools and reused
- Cable binders are easy to use, thanks to their optimum geometries
- Halogen-free/silicone-free



Cable tie length of 200 - 350 mm

General data	
Material	PA 6.6
Components	Free from silicone and halogen
Inflammability class according to UL 94	V2
Temperature range	-40 ... 80 [°C]

#### Technical data

Material	PA 6.6
Components	Free from silicone and halogen
Inflammability class according to UL 94	V2
Temperature range	-40 ... 80 [°C]

Description	Color
<b>Cable binder, maximum bundle Ø [mm]/minimum tensile strength [N]</b>	
50 / 220	transparent
65 / 220	transparent
100 / 220	transparent
<b>Cable binder, maximum bundle Ø [mm]/minimum tensile strength [N]</b>	
50 / 220	black
65 / 220	black
100 / 220	black

#### Ordering data

Type	Order No.	Pcs. / Pkt.
WT-D HF 7,5X200	3240712	100
WT-D HF 7,5X250	3240714	100
WT-D HF 7,5X350	3240716	100
WT-D HF 7,5X200 BK	3240713	100
WT-D HF 7,5X250 BK	3240715	100
WT-D HF 7,5X350 BK	3240717	100

### Cable binders with lug for direct rivet or screw mounting



The WT-E HF ... cable binders with lug for direct mounting offer the following features:

- Space saving, thanks to molded fastening lug
- Secure hold, thanks to screw or rivet fixing
- Easy to use
- Halogen-free/silicone-free
- Optimum head shape for high tensile forces
- Temperature range: briefly up to 110°C

Notes:
For corresponding cable binder pliers, see previous page.



Cable tie length of 150 - 380 mm

General data	
Material	PA 6.6
Components	Free from silicone and halogen
Inflammability class according to UL 94	V2
Temperature range	-40 ... 85 [°C]

#### Technical data

Material	PA 6.6
Components	Free from silicone and halogen
Inflammability class according to UL 94	V2
Temperature range	-40 ... 85 [°C]

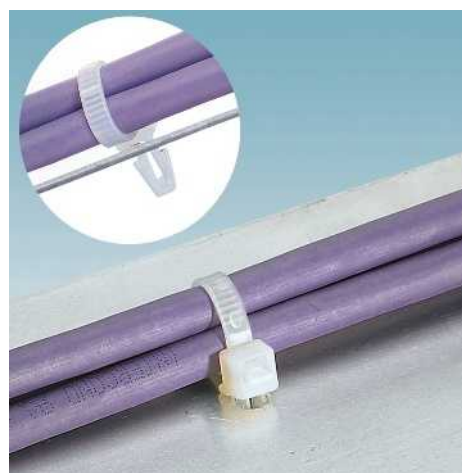
Description	Color
<b>Cable binder, maximum bundle Ø [mm]/minimum tensile strength [N]</b>	
32 / 130 hole diameter 4.5 mm	transparent
50 / 220 hole diameter 5.2 mm	transparent
44 / 540 hole diameter 6.5 mm	transparent
75 / 540 hole diameter 6.5 mm	transparent
104 / 540 hole diameter 6.5 mm	transparent

#### Ordering data

Type	Order No.	Pcs. / Pkt.
WT-E HF 3,6X150	3240718	100
WT-E HF 4,8X200	3240720	100
WT-E HF 7,8X200	3240722	100
WT-E HF 7,8X300	3240724	100
WT-E HF 7,8X380	3240726	100



**Cable binders with body-bound rivet for direct mounting**



**Notes:**  
For corresponding cable binder pliers, see previous page.

General data	
Material	PA 6.6
Components	Free from silicone and halogen
Inflammability class according to UL 94	V2
Temperature range	-40 ... 85 [°C]

Cable tie length of 150 - 200 mm

**Technical data**

Material	PA 6.6
Components	Free from silicone and halogen
Inflammability class according to UL 94	V2
Temperature range	-40 ... 85

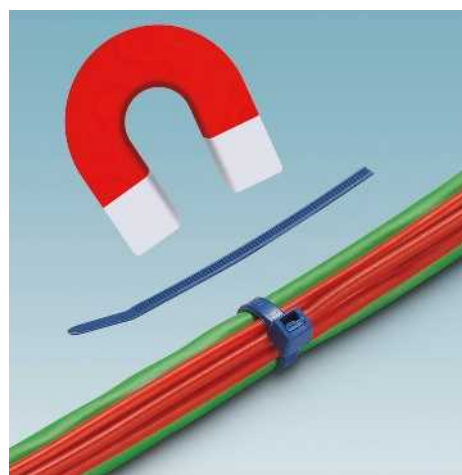
**Ordering data**

Description	Color	Type	Order No.	Pcs. / Pkt.
<b>Cable binder</b> , maximum bundle Ø [mm]/minimum tensile strength [N]				
38 / 130 hole diameter 5.2 mm	transparent	WT-R HF 3,6X150	3240801	100
50 / 220 hole diameter 6.3 mm	transparent	WT-R HF 4,8X200	3240803	100

The WT-R HF ... cable binders for straightforward direct mounting offer the following features:

- Space saving, thanks to molded body-bound rivet
- Easy to plug in and optimum hold in standard drill hole
- Optimum head shape for high tensile forces
- Halogen-free/silicone-free

**Detectable cable binders**



**Notes:**  
For corresponding cable binder pliers, see previous page.

General data	
Material	PA 6.6
Components	Free from silicone and halogen
Inflammability class according to UL 94	V2
Temperature range	-40 ... 85 [°C]

Cable tie length of 98 - 365 mm

**Technical data**

Material	PA 6.6
Components	Free from silicone and halogen
Inflammability class according to UL 94	V2
Temperature range	-40 ... 85

**Ordering data**

Description	Color	Type	Order No.	Pcs. / Pkt.
<b>Cable binder</b> , with metal portions, maximum bundle Ø [mm]/minimum tensile strength [N]				
21 / 80	blue	WT-ID HF 2,5X98 BU	3240794	100
35 / 130	blue	WT-ID HF 3,5X140 BU	3240795	100
50 / 130	blue	WT-ID HF 3,5X200 BU	3240796	100
50 / 220	blue	WT-ID HF 4,5X200 BU	3240797	100
79 / 220	blue	WT-ID HF 4,5X290 BU	3240798	100
100 / 540	blue	WT-ID HF 7,5X365 BU	3240800	100

The WT-ID HF ... cable binders are specially designed for production processes in the food, pharmaceutical and chemical industries and offer the following features:

- High level of protection against contamination in the production process
- Detectable using X-ray units or metal detectors
- Magnetic
- Easy to see
- Corrosion-free

# Installation and mounting material - CABINET add-on

## Cable routing, cable protection, cable bundling

### Cable binders made of stainless steel AISI 304 (V2A)



The WT-STEEL S ... cable binders are especially suited to use outdoors and in the chemical industry. They offer the following features:

- Secure, permanent attachment and a long service life
- Corrosion resistant
- Chemical resistance
- UV resistant
- Weatherproof
- Fire-proof
- Vibration-resistant
- Easy to use and self-locking
- Anti-magnetic
- Halogen-free/silicone-free

<b>Notes:</b>
For corresponding stainless steel cable markers, see 212



Cable tie length of 150 - 1067 mm



<b>General data</b>	
Material	Stainless steel 1.4301/AISI 304
Temperature range	-80 ... 538 [°C]

<b>Technical data</b>		
Stainless steel 1.4301/AISI 304		
-80 ... 538		

Description	Color
<b>Cable binder, made of stainless steel (AISI 304), width 4.6 mm, maximum bundle Ø [mm]/minimum tensile strength [N]</b>	
30 / 890	silver
50 / 890	silver
69 / 890	silver
102 / 890	silver
152 / 890	silver
203 / 890	silver
254 / 890	silver
305 / 890	silver
<b>Cable binder, made of stainless steel (AISI 304), width 7.9 mm, maximum bundle Ø [mm]/minimum tensile strength [N]</b>	
69 / 1335	silver
102 / 1335	silver
152 / 1335	silver
203 / 1335	silver
254 / 1335	silver
305 / 1335	silver

### Ordering data

Type	Order No.	Pcs. / Pkt.
WT-STEEL S 4,6X150	3240807	100
WT-STEEL S 4,6X201	3240808	100
WT-STEEL S 4,6X259	3240809	100
WT-STEEL S 4,6X360	3240810	100
WT-STEEL S 4,6X520	3240811	100
WT-STEEL S 4,6X679	3240812	100
WT-STEEL S 4,6X838	3240723	100
WT-STEEL S 4,6X1067	3240805	100
WT-STEEL S 7,9X259	3240814	100
WT-STEEL S 7,9X360	3240815	100
WT-STEEL S 7,9X520	3240816	100
WT-STEEL S 7,9X679	3240817	100
WT-STEEL S 7,9X838	3240725	100
WT-STEEL S 7,9X1067	3240813	100

<b>Cable binder tool, for steel cable binders with a width of up to 7.9 mm, material thickness of up to 0.3 mm</b>
--

### Accessories

UNIFOX-CT M 7,9	1212610	1
-----------------	---------	---



**Cable binders made of stainless steel  
AISI 316 (V4A)**



The WT-STEEL SH ... cable binders are especially suited to use with aggressive chemicals and in onshore and offshore areas. They offer the following features:

- Secure, permanent attachment with long service life
- Corrosion resistant when exposed to aggressive chemicals, e.g., acids, salt fog, and sea water
- UV resistant
- Weatherproof
- Fire-proof
- Vibration-resistant
- Easy to use
- Anti-magnetic
- Halogen-free/silicone-free



Cable tie length of 150 - 1067 mm



General data	
Material	Stainless steel 1.4401/AISI 316
Temperature range	-80 ... 538 [°C]

**Technical data**

Material	Stainless steel 1.4401/AISI 316
Temperature range	-80 ... 538

Description	Color
<b>Cable binder</b> , made of stainless steel (AISI 316), width 4.6 mm, maximum bundle Ø [mm]/minimum tensile strength [N]	
30 / 890	silver
50 / 890	silver
69 / 890	silver
102 / 890	silver
152 / 890	silver
203 / 890	silver
254 / 890	silver
305 / 890	silver
<b>Cable binder</b> , made of stainless steel (AISI 316), width 7.9 mm, maximum bundle Ø [mm]/minimum tensile strength [N]	
69 / 1335	silver
102 / 1335	silver
152 / 1335	silver
203 / 1335	silver
254 / 1335	silver
305 / 1335	silver

**Ordering data**

Type	Order No.	Pcs. / Pkt.
WT-STEEL SH 4,6X150	3240820	100
WT-STEEL SH 4,6X201	3240821	100
WT-STEEL SH 4,6X259	3240822	100
WT-STEEL SH 4,6X360	3240823	100
WT-STEEL SH 4,6X520	3240824	100
WT-STEEL SH 4,6X679	3240825	100
WT-STEEL SH 4,6X838	3240727	100
WT-STEEL SH 4,6X1067	3240818	100
WT-STEEL SH 7,9X259	3240827	100
WT-STEEL SH 7,9X360	3240828	100
WT-STEEL SH 7,9X520	3240829	100
WT-STEEL SH 7,9X679	3240830	100
WT-STEEL SH 7,9X838	3240766	100
WT-STEEL SH 7,9X1067	3240826	100

**Cable binder tool**, for steel cable binders with a width of up to 7.9 mm, material thickness of up to 0.3 mm

**Accessories**

UNIFOX-CT M 7,9	1212610	1
-----------------	---------	---

# Installation and mounting material - CABINET add-on

## Cable routing, cable protection, cable bundling

### Cable binder base, self-adhesive and/or screwable



- The WT-BASE LS ... cable binder bases are characterized by their excellent adhesive properties as well as the following:
- Easy to use
  - Cable binders can be fed through on four sides
  - Self-adhesive and optionally screwable
  - Secure hold, load can be applied after just a few minutes
  - Halogen-free/silicone-free



General data	
Material	ABS
Inflammability class according to UL 94	HB
Temperature range	-40 ... 60 [°C]

Technical data	
Material	ABS
Inflammability class according to UL 94	HB
Temperature range	-40 ... 60 [°C]

Description	Color
<b>Cable binder base</b> , for cable binders of up to 4 mm width, self-adhesive and screwable, 4 mm fixing hole, dimensions: 19 x 19 mm	transparent black
<b>Cable binder base</b> , for cable binders of up to 6 mm width, self-adhesive and screwable, 4.8 mm fixing hole, dimensions: 27 x 27 mm	transparent black

Ordering data		
Type	Order No.	Pcs. / Pkt.
<b>WT-BASE LS HF 4</b>	3240706	100
<b>WT-BASE LS HF 4 BK</b>	3240707	100
<b>WT-BASE LS HF 6</b>	3240708	100
<b>WT-BASE LS HF 6 BK</b>	3240709	100

### Cable binder base, screwable



- Space-saving design
- Easy to use
- Cable binders can be fed through on two sides
- Halogen-free/silicone-free



General data	
Material	PA 6.6
Inflammability class according to UL 94	V2
Temperature range	-40 ... 85 [°C]

Technical data	
Material	PA 6.6
Inflammability class according to UL 94	V2
Temperature range	-40 ... 85 [°C]

Description	Color
<b>Cable binder base</b> , for cable binders of up to 5 mm width, screwable, 3.5 mm fixing hole, dimensions: 9.5 x 15 mm	transparent black
<b>Cable binder base</b> , for cable binders of up to 9 mm width, screwable, 5 mm fixing hole, dimensions: 14.6 x 22 mm	transparent black

Ordering data		
Type	Order No.	Pcs. / Pkt.
<b>WT-BASE HF 5</b>	3240702	100
<b>WT-BASE HF 5 BK</b>	3240703	100
<b>WT-BASE HF 9</b>	3240704	100
<b>WT-BASE HF 9 BK</b>	3240705	100

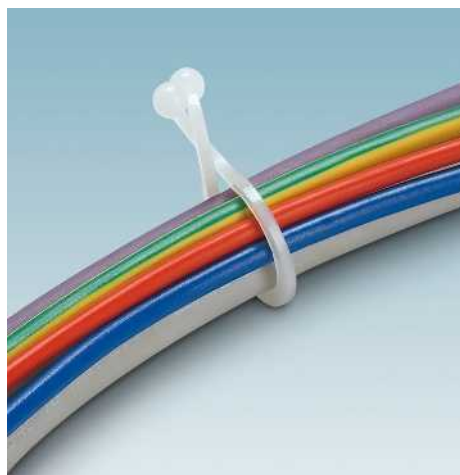
### Cable binder base for direct mounting

- WT-BASE R ... with molded body-bound rivet for direct mounting in materials of up to 3 mm thickness
- WT-BASE P ... is ideally suited to use in solid panels
- Easy to use, can be directly knocked into the panel



General data		Technical data			Technical data		
Material		PA 6.6		PA 6			
Inflammability class according to UL 94		V2		HB			
Temperature range	[°C]	-40 ... 85		-10 ... 65			
Description		Ordering data			Ordering data		
	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
<b>Cable binder base</b> , for cable binders of up to 8 mm width, with molded body-bound rivet, 6.5 mm drilling diameter	transparent	<b>WT-BASE R HF 8</b>	<b>3240711</b>	100			
<b>Cable binder base</b> , for cable binders of up to 9.5 mm width, with fins, 8 mm drilling diameter, can be knocked in	black				<b>WT-BASE P HF 9,5 BK</b>	<b>3240710</b>	100

### Cable drillers, for fast and tool-free bundling of conductors and cables

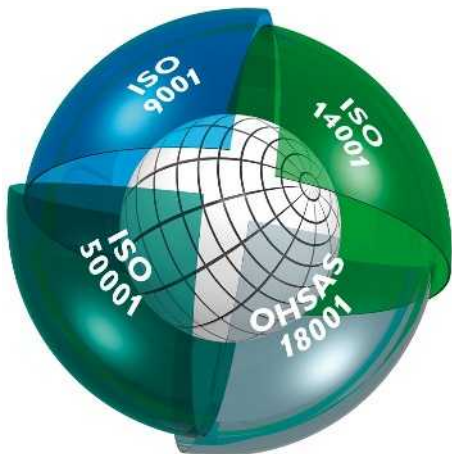


- Fast and easy to use
- Can be removed again
- Reusable
- Tool-free mounting
- Ideal for temporary bundling
- Halogen-free/silicone-free



General data		Technical data		
Material		PA 6.6		
Inflammability class according to UL 94		V2		
Temperature range	[°C]	-40 ... 85		
Description		Ordering data		
	Color	Type	Order No.	Pcs. / Pkt.
<b>Cable driller</b>				
Bundle diameters 5.1 - 7.6 mm	transparent	<b>WG-D HF 7,6</b>	<b>3241099</b>	1000
Bundle diameters 7.6 - 10.2 mm	transparent	<b>WG-D HF 10,2</b>	<b>3241101</b>	1000
Bundle diameters 10.2 - 12.7 mm	transparent	<b>WG-D HF 12,7</b>	<b>3241103</b>	1000
Bundle diameters 12.7 - 16 mm	transparent	<b>WG-D HF 16</b>	<b>3241105</b>	1000
Bundle diameters 16 - 20.3 mm	transparent	<b>WG-D HF 20,3</b>	<b>3241107</b>	1000
<b>Cable driller</b>				
Bundle diameters 5.1 - 7.6 mm	black	<b>WG-D HF 7,6 BK</b>	<b>3241100</b>	1000
Bundle diameters 7.6 - 10.2 mm	black	<b>WG-D HF 10,2 BK</b>	<b>3241102</b>	1000
Bundle diameters 10.2 - 12.7 mm	black	<b>WG-D HF 12,7 BK</b>	<b>3241104</b>	1000
Bundle diameters 12.7 - 16 mm	black	<b>WG-D HF 16 BK</b>	<b>3241106</b>	1000
Bundle diameters 16 - 20.3 mm	black	<b>WG-D HF 20,3 BK</b>	<b>3241108</b>	1000

#### Quality in quantity



#### Integrated management system

The objective of the Phoenix Contact integrated management system is to integrate all requirements pertaining to products, processes, and the organization.

Statutory and regulatory requirements, as well as those of international standards and our customers, are met and, in some cases, even exceeded in all phases of the product lifecycle.

The integration of quality, environmental protection, and occupational safety into the Phoenix Contact management system is monitored for conformance every year by independent, internationally recognized institutes. Certifications according to international standards ISO 9001, ISO 14001, and BS OHSAS 18001 are for us the result of our corporate philosophy of meeting the needs of our customers, employees, and the environment to the greatest possible extent. They are used as the basis for innovative products with the trusted, high Phoenix Contact quality standard, active environmental protection, and responsible occupational health and safety. Of course we also integrate the additional requirements of standards, international approvals, and special customer requirements into our company processes.

The result of this system is a building block for the success of the Phoenix Contact Group as well as its products and services.

#### CE marking

CE marking was introduced as an important instrument for the free movement of goods within the European single market. By applying the mark to a product, the manufacturer confirms its compliance with all EU directives applicable to this product. The EC directives describe the product characteristics with regard to

device safety and the avoidance of risks. These are legally binding regulations of the European Union (EU), which means that the fulfilment of these requirements is a **legal prerequisite for the marketing of these products within the EU.**

Where applicable, our products currently fall within the scope of the following directives:

- 2006/95/EC  
Electrical equipment for use within certain voltage limits (low-voltage directive)
- 2004/108/EC  
Electromagnetic compatibility (EMC Directive)
- 2006/42/EC  
Safety of machinery (Machinery Directive)
- 94/9/EC  
Devices and protective systems for use in potentially explosive areas (ATEX 100a directive)
- 1999/5/EC  
Wireless systems and telecommunications terminal equipment (R&TTE).

The standards used as the basis for the aforementioned directives have been at the heart of our development standard for some time as a way of ensuring compliance with European directives. The numbers of the directives indicate their version at the time of publication. In the event of changes to directives and/or standards, our products will undergo conformity assessment again in good time and a new declaration of conformity will be issued simultaneously. The current declarations for each product can also be found in our Download Center.

Among the aforementioned European directives, the EMC Directive plays a particularly important role. It uses a legally binding directive as the basis for defining electromagnetic compatibility as a fundamental device property. European legislation therefore places great emphasis on the electromagnetic compatibility of devices and systems as a basic prerequisite for the error-free operation of machines and systems. As an international leader in the field of surge protection, Phoenix Contact has extensive expertise in EMC. This expertise and the experiences gained over many years in the development and application of industrial interface and communication technology have resulted in an extremely high standard of quality for our products when it comes to electromagnetic compatibility. Our sister company, Phoenix Testlab, was founded in

order to share this expertise with other companies. Phoenix Testlab GmbH is an independent, accredited service company, which carries out EMC testing in compliance with the European standards. At Phoenix Testlab, devices are also tested with regard to their electrical safety, mechanical influences, and their behavior in relation to environmental influences. Phoenix Testlab is also a “Notified Body” according to EMC Directive 2004/108/EC and R&TTE directive 1999/5/EC for wireless systems and telecommunications terminal equipment. As a “Telecom Certification Body” (TCB), Phoenix Testlab is also able to approve these products for the markets in the USA, Canada, and Japan.

#### Standards and regulations

All relevant standards and regulations are used as the basis for the development and maintenance of our products.

International standards are subject to continuous changes as a result of harmonization and new developments. In order to comply with this process, we keep a record of the current version of the standards applicable to our products in the product area of our website at [phoenixcontact.net/products](http://phoenixcontact.net/products).

#### Online product information service on the world wide web

Phoenix Contact is continuously extending its product range.

Within the scope of our product monitoring obligation, all products are subject to an improvement process.

The Internet is an ideal platform to quickly communicate new product developments and improvements to the market.

You can quickly access the relevant Phoenix Contact website for your region via [phoenixcontact.com](http://phoenixcontact.com). There you will always find an up-to-date overview of products, solutions, and services from Phoenix Contact. This includes technical documents such as data sheets and user manuals, current driver and demo software, and a direct link to the relevant contact person.

## Materials

### Polyamide (PA)

Polyamide has excellent electrical, mechanical, chemical, and thermal properties, even at high operating temperatures. Brief peak temperatures of up to 200°C are permitted as a result of heat aging stabilization. Polyamide absorbs moisture from its surroundings (2.8% on average). This is not the embedded water of crystallization, however, but rather chemically bound H<sub>2</sub>O groups in the molecular structure. This makes the plastic flexible and resistant to breakage, even at temperatures as low as -60°C. According to UL 94, PA belongs to inflammability class V2 to V0. The polyamide used by Phoenix Contact is silicone- and halogen-free and is suitable for use at temperatures between -60°C and +125°C.

### Polycarbonate (PC)

Polycarbonate has a high mechanical strength and chemical resistance. Rigidity, dimensional stability, and good heat distortion resistance are further distinguishing features of this material. Polycarbonate is used to manufacture particularly smooth and stable marking materials. The polycarbonate used by Phoenix Contact absorbs little moisture, is silicone- and halogen-free, and is suitable for use at temperatures between -40°C and +125°C.

### Polycarbonate/acrylonitrile butadiene styrene (PC/ABS)

PC/ABS blends are amorphous thermoplastics which are characterized by high impact strength potential even at low temperatures. They are resistant to acids and lyes, for example. In addition to benefiting from a high dimensional accuracy and low distortion tendency, they absorb little moisture. The products manufactured from these blends have high-gloss surfaces. Temperature range: -50°C to +90°C.

### Acrylonitrile butadiene styrene (ABS)

ABS is a copolymer. It has a high impact strength and is strong and hard. The ABS used by Phoenix Contact is silicone-free and is suitable for use at temperatures between -40°C and +85°C.

### Polyvinyl chloride (PVC)

PVC has a long service life. It is characterized in particular by its outstanding mechanical strength and high chemical resistance. Neither oxygen nor ozone affects PVC. The material is resistant to corrosive salt solutions and most acids. The polyvinyl chloride used by Phoenix Contact is silicone-free and is suitable for

use in temperatures between -30°C and +80°C.

### Polyester

Polyester is a chemical-resistant material. It is ideally suited to printing, shaping, and punching. Polyester is resistant to UV radiation and absorbs little moisture. The polyester used by Phoenix Contact is silicone- and halogen-free. Depending on its composition, it is suitable for use in temperatures between -40°C and +150°C.

### Polyolefine

Polyolefines are semi-crystalline thermoplastics, which can be easily processed as extrusion profiles (shrink sleeves). They are characterized by good chemical resistance. Silicone-free, temperature range: -55°C to +125°C.

### Polyethylene (PE)

Polyethylene is a thermoplastic material which is highly resistant to acids, alkalis, and other solvents. PE absorbs hardly any moisture and has high durability and breaking elongation. Silicone- and halogen-free, temperature range: -40°C to +80°C.

### Halogen-free

The term halogen-free, based on international standards for base materials for PCBs (e.g., IEC 61249-2-21, IPC 4101 C), relates to the elements chlorine and bromine in flame protection agents. This also forbids the use of flame protection agents containing halogen according to DIN EN ISO 1043-4.

This means that, according to the definition in the ZVEI position paper (requirements for the use of halogen-free products in the electrical and electronics industry), no flame protection agents containing halogen or PVC are present in the components.

### Inflammability classification

#### UL 94 V0/1/2

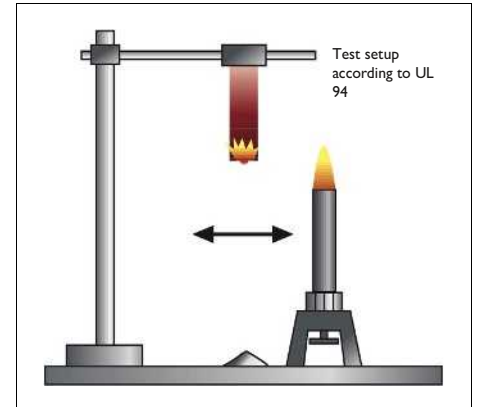
The inflammability tests for plastics have been defined by the Underwriters Laboratory (USA) in regulation UL 94. This applies to all areas of application, particularly in electrical engineering. Inflammability of the plastic material is examined in the test laboratory in a horizontal (HB - Horizontal Burn) or vertical (V - Vertical Burn) test with a naked flame. In order of increasing resistance to combustion, the evaluation classes are HB, V1, V2, V0. Test results are listed on "yellow cards" and are published annually in the Recognized Component Directory.

The flash point, the combustion point, and the ignition point of a material are decisive with regard to behavior in fire. The tests show that the classifications of UL 94 V1/2/0 are stricter than those of UL 94 HB.

The test bar is clamped vertically and flame-treated several times. Each flame treatment lasts 10 seconds. Between the flame treatments, the time until the test bar is extinguished is measured. Then the afterflame times and the drip behavior are evaluated.

This test setup is not suitable for foils and/or very thin test objects that shrink when exposed to the heat of the flame.

Phoenix Contact only uses plastics which conform to UL 94 V1/2/0.



Classification	UL 94 V0	UL 94 V1	UL 94 V2	UL 94 HB
Burning time after each flame treatment	≤ 10 s	≤ 30 s	≤ 30 s	-
Total burning time after 10 flame treatments	≤ 50 s	≤ 250 s	≤ 250 s	-
Glowing time after the 2nd flame treatment	≤ 30 s	≤ 60 s	≤ 60 s	-
Complete burn-off	No	No	No	Yes
Ignition of the wadding beneath the sample	No	No	No	-

### Halogen-free flame protection

#### DIN EN ISO 1043-4

Halogens include the chemical elements astatine, fluorine, chlorine, bromine, and iodine. One characteristic of the halogen compounds of bromine and chlorine relates to the reduction in the degree of inflammability when used in plastics. In the event of fire, poisonous corrosive gases are formed. Secondary damage attributable in part to the water used to extinguish the fire can also be caused. For this reason, Phoenix Contact does not use any flame protection systems which contain halogens or other additives. Polyamide, polycarbonate,

polycarbonate/acrylonitrile butadiene styrene, acrylonitrile butadiene styrene, and polyolefines feature halogen-free flame protection systems.





## Aging test

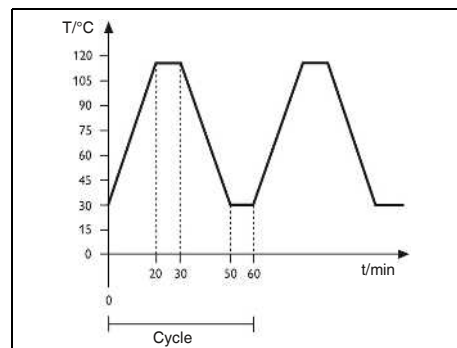
### IEC 60947-7-1/-2

Terminal blocks are characterized, among other things, by long life cycles and their ability to safely withstand continuous temperatures of +125°C. In order to ensure that the printing of these terminal blocks also meets these requirements, Phoenix Contact uses marking materials with heat stabilizers.

To simulate usage over several years, the marking materials, together with the terminal blocks or conductors, are subjected to a defined temperature cycle in the climate cabinet. The minimum temperature in the climate cabinet is set to +20°C and the maximum temperature to

+120°C (+80°C for PVC). The test objects reach the maximum permissible operating temperature during the warming phase and the 10-minute pause phase. The cooling down phase follows. This test consists of a total of 192 cycles.

Without exception, Phoenix Contact marking materials are tested according to IEC 60947-7-1/-2. All plastics used also have sufficient safety reserves.



Temperature in relation to time

## Resistance to oil and chemicals

### According to DIN EN ISO 175

Physical and/or chemical processes/reactions can occur as a result of external media, such as liquids or gases. This can result in a change to the plastic's properties. The plastic can be damaged or even destroyed. Imprints and labels can also be affected by these changes.

In order to prevent this from happening, Phoenix Contact uses only plastics and printing/marketing materials which have been tested based on DIN EN ISO 175.

Chemical	Weight %
<b>Alkalis</b>	
Sodium hydroxide solution	3
Potassium hydroxide solution	3
Ammonium hydroxide (ammonia water)	25
<b>Alcohols</b>	
Ethanol	100
1-propanol	100
2-propanol	100
Diethylene glycol	100
<b>Aldehyde/ketones</b>	
Ethyl acetate	100

Chemical	Weight %
<b>Oils, greases, aliphatic and aromatic hydrocarbons</b>	
IRM 902	100
IRM 903	100
ASTM No.1	100
Xylol	100
Test benzene (180/220)	100
Hycut SU 68	100
Hycut SET 46	100
Shell Tellus 92	100
<b>Aqueous salt solutions</b>	
Sodium chloride	5
Potassium chloride	5
Ammonium chloride (ammonia solution)	100

## UV light resistance

### According to DIN EN ISO 4892-2 and DIN EN ISO 60068-2-5

UV-B components restrict mechanical properties in plastics. As a consequence, imprints and labels can be damaged to a greater or lesser extent dependent upon the type of plastic.

Marking materials from Phoenix Contact can be stored in dry as well as humid atmospheres under UV radiation and are tested in accordance with the aforementioned standards.



#### Corrosion test

##### DIN 50018

Extreme ambient influences impose demanding requirements on components and their Marking and labeling.

The following test method, based on DIN 50018, describes the corrosion test in an alternating condensation climate with an atmosphere that contains sulfur dioxide.

Two liters of distilled water and one liter of SO<sub>2</sub> gas are introduced into a climate cabinet. During the test and at a test temperature of 40°C, an acidic atmosphere is formed, which affects the material surfaces of the test objects. After a testing time of eight hours, the test objects are left to dry for 16 hours with the door open. Finally, a microscopic visual check is performed.

All marking materials used by Phoenix Contact conform to this demanding standard and are resistant to aggressive substances.



#### Salt spray

##### IEC 60068-2-11/-52

In the shipbuilding industry in particular, technical components must be marked in a way that is legible at all times in corrosive atmospheres. The salt content of the air in combination with the increased humidity places high demands on the imprints and materials used. The impact of the climate at sea can be simulated on the basis of IEC 60068-2-11/-52.

The resistance of the materials is tested with salt spray in a corrosive atmosphere. The test objects are placed in the test chamber and subjected to a finely dosed spray of 5% sodium chloride solution (NaCl; pH value 6.5 - 7.2) at a temperature of +35°C for a period of 96 hours. A microscopic inspection is performed after the test.

Phoenix Contact marking materials fulfill these stringent requirements and can be used even in extreme climatic conditions.



#### Resistance to solvents

##### According to EN 60464-2:2001

Markings and imprints must be able to withstand a variety of different solvent vapors. According to the aforementioned standard, imprints and markings are stored in an acetone, n-hexane, and ethanol atmosphere for 10 days, after which they must continue to be legible.

Phoenix Contact marking materials are solvent-resistant and fulfill the stringent requirements.

## Scratch resistance

### According to DIN EN ISO 1518

Markings and imprints must also be resistant to point and/or linear mechanical loads.

For this reason, Phoenix Contact tests all markings and imprints for scratch resistance in accordance with the aforementioned standard. The test is carried out by applying a scratching tool with a hemispherical tip (1 mm in diameter) to the test objects. Depending on the printing procedure, a force of between 2 N and 6 N is applied. This is followed by a visual and microscopic

inspection of the test objects. Phoenix Contact marking materials fulfill these high mechanical requirements.



## Resistance to abrasion

### According to KIMW 003, Part 1 In-house standard of the Lüdenschied Plastics Institute

Markings and imprints must be resistant to surface loads. The aforementioned in-house standard prescribes the grouping of labels and imprints into load classes. A felt disk (hardness H1 according to DIN 61200) is subjected to various numbers of strokes (1000, 10,000, 30,000) with a pressure force of 1 N, 2 N, and/or 4 N. Imprints are classified into the various load classes

defined in the in-house standard on the basis of the pressure force and the number of strokes at which they sustain damage.

Phoenix Contact imprints and markings meet the requirements of the highest load class K9 (30,000 strokes with a 4 N pressure force).

## Abrasion and wipe resistance

### According to DIN EN 61010-1

Markings and imprints must be resistant to standard industrial cleaning agents. The aforementioned standard prescribes the use of a soft cloth with water, isopropanol, petroleum ether, and n-hexane to clean markings and imprints. They must remain clearly legible after cleaning.

Phoenix Contact marking materials fulfill the stringent requirements as regards abrasion and wipe resistance and can be used in all applications.



## Vibration resistance

### According to IEC 60068-2-6

This test demonstrates the vibration resistance and the tight fit of the marking materials under the influence of continuous vibrations. Harmonic, sinusoidal vibrations are applied to the test object to simulate rotating, pulsating or oscillating forces. The test is performed on each of the three spatial axes (x, y, z). In the test, the objects run through a frequency range of 3 Hz to 150 Hz at a speed of one octave per

minute. The r.m.s. value of the acceleration is up to 50 m/s<sup>2</sup>. The test objects are tested in the three axes for two hours each. The marking materials must not be damaged in such a way that would impair their continued use.

All Phoenix Contact marking materials meet the requirements of the standard and are particularly suitable for applications in

which they are subjected to high levels of vibration.

#### Vibration test

##### According to DIN EN 61373 - broadband noise (intensity according to DIN EN 50155)

In many applications and especially in traffic technology, marking materials are subjected to vibrations and shocks. For a practical simulation of vibration stress, the test objects are tested for vibration resistance at increasing and decreasing frequencies and amplitudes. In the test, the objects run through a frequency range of 5 Hz to 150 Hz. The r.m.s. value of the acceleration is up to  $42.5 \text{ m/s}^2$ . The test objects are tested for five hours in each of the three axes (x, y, z). The components and marking materials must not be damaged in

such a way that would impair their continued use.

All Phoenix Contact marking materials fulfill these stringent vibration requirements.



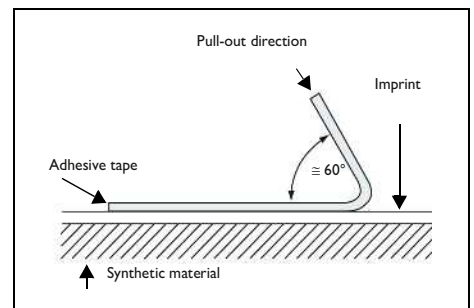
#### Grid test

##### According to DIN EN ISO 2409

A Sellotape test is conducted based on DIN EN ISO 2409. A transparent strip of self-adhesive tape with an adhesive strength of  $10 \pm 1 \text{ N}$  is attached to the imprint or marking to be tested. It is then pulled away from the surface at an angle of  $60^\circ$  to the direction of tensile force at a speed of 1 cm/s.

There should be no marks from the print on the adhesive tape after the test.

Phoenix Contact marking materials meet the requirements of this standard. They are tough and resistant to peeling.

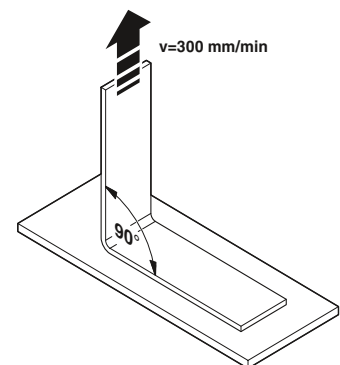


Test setup

#### Adhesive strength test

##### According to FINAT test method No. 2

This test is used to compare the adhesive strength of labels on a variety of base materials. To this end, a strip of labels (25 mm x 175 mm) is applied to the respective base material with a specified force. After a defined storage period, the strip is removed from the base material at an angle of  $90^\circ$  and a speed of 300 mm/min. The adhesive strength is specified in N/25 mm. The test therefore enables the most suitable label to be selected for the application.



## Cutting

### Shear cutting

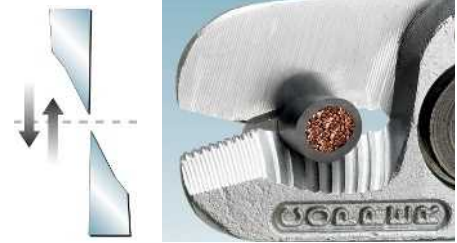
Ratchet-driven cable cutters are a quick and reliable solution for cutting conductors and cables in the upper cross-section range up to 1400 mm<sup>2</sup>. Special cutting geometries help to ensure that the tool is easily accessible and can be relied upon to produce burr-free right-angle cuts. In this cutting procedure, which is also known as shear cutting, the two blades move towards and past one another and cut (shear) the material without burring. DIN 8588 describes this procedure as severing.

### Bite cutting

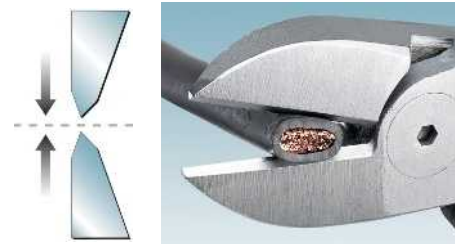
During bite cutting, the material is severed by two wedge-shaped blades moving in opposite directions. The wedge angle set for the blades is deliberately large and stable. In addition to the hardening of the entire tool, the cutting area is subsequently hardened again inductively to 62 HRC. This makes it possible to sever even extremely hard materials such as piano wire and spring steel with a tensile strength

of up to 2300 N/mm<sup>2</sup> without damaging the tool. Bite cutting is suitable only to a limited extent for cutting through cables and lines.

The high-quality CUTFOX cutting tools from Phoenix Contact can be relied upon for long-term stability and permanently consistent results.



Shear cutting



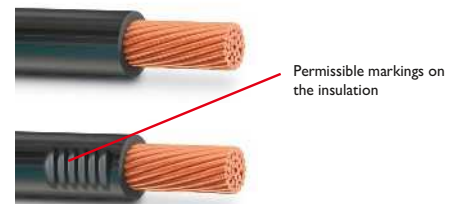
Bite cutting

## Stripping

Stripping describes the removal of the insulation of conductors up to 16 mm<sup>2</sup>. In the case of larger conductor cross sections and multiple-wire and multi-layer conductors and cables, only the outer insulation sheath is removed. The length of the insulation to be removed varies according to the terminal point and connector. Removing the insulation must not damage either the single inner wires or the braided shield. The remaining insulation must also remain intact, although pressure points on and color changes in the insulation material are permitted. Further faults that need to be prevented are stipulated in DIN IEC 60352.

Suitable blade geometries are used to process special insulation materials. V blades are used for both hard (e.g., Teflon/Radox®) and soft rubber insulations (silicone).

Phoenix Contact WIREFOX automatic stripping pliers can remove insulation quickly and correctly.



Cable stripped correctly according to DIN IEC 60352



Cable stripped incorrectly according to DIN IEC 60352

### Crimping/pressing/crushing

Crimping describes the joining of contact and conductor mechanically. In addition to crimping, two other terms are used dependent upon the type of deformation. A distinction is made between squeezing (for insulated cable lugs) and pressing (for ferrules and non-insulated cable lugs). Slip-on blade connectors are described as being crimped.

A number of important points must be considered in order to establish a reliable connection between contact and conductor:

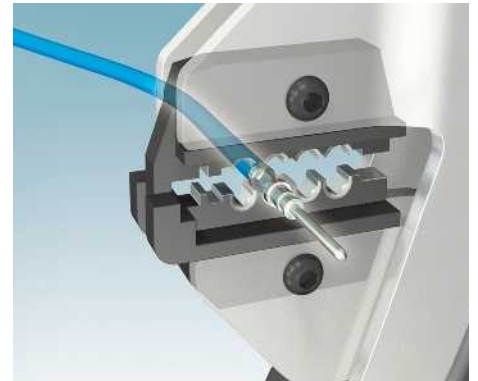
- The conductor must be prepared correctly
- The contact and the conductor must be compatible
- The conductor must be positioned correctly in the contact
- A suitable crimping tool must be selected

Professional crimping pliers are always equipped with a releasing pressure lock. They unlock as soon as the required crimping pressure is attained, thus ruling out the possibility of too little pressure. This guarantees the user a consistent

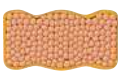
crimping result with maximum pull-out values.

The DIN EN 60352-1 and DIN EN 60999-1 standards are among the references used to assess crimping results. In addition to a variety of electrical and mechanical tests, conductor pull-out tests are the decisive criterion.

All Phoenix Contact crimping tools have been adjusted and tested according to valid standards. They ensure gas-tight crimping that will remain stable in the long-term.



### Pressing



#### WM crimp

For crimping ferrules according to DIN 46228-1 and DIN 46228-4. Areas of application: for conductor sizes 10 - 50 mm<sup>2</sup>.



#### B crimp

For crimping non-insulated slip-on blade connectors and slip-on sleeves. Areas of application: for conductor sizes 0.1 - 6 mm<sup>2</sup>.



#### Hex crimp

For crimping non-insulated tubular cable lugs, coaxial connectors, and fiber optic connectors. Areas of application: for conductor sizes 0.5 - 6 mm<sup>2</sup>. Coaxial: 1.73 mm, 2.54 mm, 8.23 mm, 10.54 mm, and 10.9 mm. FO: 3.25 mm, 3.84 mm, 4.52 mm, 5.0 mm, and 5.41 mm.



#### Square crimp

For crimping ferrules according to DIN 46228. Areas of application: for conductor sizes 0.14 - 10 mm<sup>2</sup>.



#### Indent/prong crimp

For crimping non-insulated cable lugs. Areas of application: for conductor sizes 0.75 - 10 mm<sup>2</sup>.



#### Trapezoid crimp

For crimping ferrules according to DIN 46228-1 and DIN 46228-4. Areas of application: for conductor sizes 0.25 - 10 mm<sup>2</sup>.



#### Oval crimp

For crimping insulated cable lugs and connectors. Areas of application: for conductor sizes 0.1 - 6 mm<sup>2</sup>.



#### Double indent crimp

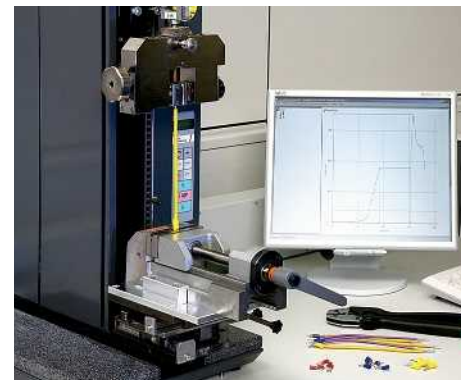
For crimping non-insulated cable lugs. Areas of application: for conductor sizes 0.75 - 10 mm<sup>2</sup>.

## Conductor pull-out test

### DIN EN 60352-2

In practice, crimping points can be affected by tensile forces during wiring or operation. Therefore, crimped contacts must offer a high degree of mechanical safety. To test the tensile load capacity of the crimp, a predefined cross-sectional tensile force is applied for a period of 60 seconds. The tensile force exerts stress on the conductor at the crimping point. The crimp must withstand the load without sustaining damage.

The test results for Phoenix Contact contacts are significantly higher than the minimum values required by the standard.



## Conductor cross sections/conductor pull-out forces

### Structure and dimensions of connecting cables

Conductor pull-out forces			Crimping sleeves DIN EN 60352-2 (11/2006)	Ferrules IEC EN 60999 1) (up to 35 mm <sup>2</sup> )	Ferrules IEC EN 60947-7-1 (35 mm <sup>2</sup> and above)
AWG/kcmil	Metric conductor cross section [mm <sup>2</sup> ]	Comparable conductor cross section [mm <sup>2</sup> ]	[N] 2)	[N] 3)	[N] 3)
30	0.0507	0.05	6		
(29)	0.0647				
28	0.0804	0.08	11		
(27)	0.102				
26	0.128	0.12	15		
(25)	0.163	0.14	18		
24	0.205	0.22	28	10	
(23)	0.259	0.25	32		
22	0.325	0.32	40	15	
(21)	0.412				
20	0.519	0.5	60	20	
(19)	0.653	0.75	85	30	
18	0.824	0.82	90	30	
(17)	1.04	1	108	35	
16	1.307	1.3	135	40	
(15)	1.651	1.5	150	40	
14	2.082	2.1	200	50	
(13)	2.627	2.5	230	50	
12	3.307	3.3	275	60	
(11)	4.169	4	310	60	
10	5.26	6	360	80	
(9)	6.633				
8	8.367	8.4	370	90	
(7)	10.55	10	380	90	
6	13.229			100	
(5)	16.767	16			
4	21.148			135	
(3)	26.667	25		156	
2	33.624	35		190	
1	42.406				236
0	53.482	50			236
00	67.43	70			285
000	85.014	95			351
0000	107.22	120			427
250 kcmil	127	120			427
300 kcmil	152	150			427
350 kcmil	177	185			503
400 kcmil	203				503
500 kcmil	253	240			578
600 kcmil	304	300			578

1) DIN 57609 has been replaced by IEC EN 60999.

2) Pull-out values for open and closed crimping sleeves and insulated crimping sleeves.

3) Pull-out values for ferrules, insulated and non-insulated.

### Gas tightness

Corrosion-free contact areas are a prerequisite for high-performance and low-resistance connections. The corrosion test described below shows that when used correctly at contact points, Phoenix Contact crimping tools and connectors achieve a permanent gas-tight connection that remains intact even when exposed to aggressive substances.

The test method, which is based on DIN 50018, describes the corrosion test in an alternating condensation climate with an atmosphere that contains sulfur dioxide.

Two liters of distilled water and one liter of SO<sub>2</sub> gas are introduced into a climate cabinet. At a test temperature of 40°C, acidic compounds < Ph 7 form during the test and attack the metal surfaces. After a testing time of eight hours, the test objects are left to dry for 16 hours with the door open. A visual check follows. Before and after the corrosion test, the contact resistance of the contacts is recorded according to DIN EN 60512-2-1:2002. Changes that can be attributed to the effects of corrosion are investigated.

### Color codes

Conductors are marked in different colors so that different types can be identified more easily. Conductor cross sections and their corresponding color codes are listed in the table.

Conductor cross section		Color
[mm <sup>2</sup> ]	AWG	
0.1 - 0.5	26 - 20	yellow/light green green
0.25 - 0.75	24 - 18	
0.5 - 1.5	20 - 16	red blue
1.5 - 2.5	16 - 14	
4 - 6	12 - 10	yellow red
10	8	
16	6	blue yellow
25	4	



## Tightening torque of terminal block screws

### DIN EN 60947-1

Table 4 of the standard specifies the tightening torque to demonstrate the mechanical strength of screw connections/screw terminal blocks.

Although these torques are sufficient for connecting conductors with Phoenix Contact terminal blocks,

The table opposite lists recommended tightening torques which differ from those in this standard and will ensure gas-tight connections that remain stable in the long term.

Phoenix Contact torque screwdrivers can be set to the corresponding torques.

#### Extract from DIN EN 60947-1/EN 60947-1, Table 4

The torque according to IEC/EN and the recommended tightening torque for Phoenix Contact terminal blocks are specified.

Head screw with slot	
Thread	Torque
	[Nm]
M1.6	0.1*
M2.0	0.2*
M2.5 (M2.6)	0.4*
M3	0.5*
M4	1.2*
M4.5	1.8*
M5	2.0*
M6	2.5*
M8	3.5*
M10	4.0*/10**
M12	14**
M14	19**
M16	25**
M20	36**
M24	50**

\* Valid for nuts and screws tightened with screwdrivers.

\*\*Valid for nuts and screws that can be tightened with tools other than screwdrivers.

## Color designations

Color	Code
White	WH
Red	RD
Blue	BU
Green	GN
Yellow	YE
Gray	GY
Brown	BN
Orange	OG
Black	BK
Turquoise	TQ
Ivory	IV
Beige	BE
Olive	OL

### DIN rails

#### DIN rails/protective conductor busbars

Extract from IEC 60947-7-2/EN 60947-7-2/DIN EN 60947-7-2/VDE 0611-3

Phoenix Contact type	Rail profile	Material	Short-circuit current rating ≅ E CU conductor [mm <sup>2</sup> ]*	Short-time withstand current 1 s [kA]	Max. permissible thermal nominal current for PEN function [A]
NS 15 UNPERF 2000MM	DIN rail, acc. to EN 60715 – 15 x 5.5	Steel	10	1.2	**
NS 15 PERF 2000MM	DIN rail, acc. to EN 60715 – 15 x 5.5	Steel	10	1.2	**
NS 15-AL PERF 2000MM	DIN rail, dimensions acc. to EN 60715 – 15 x 5.5	Aluminum	16	1.92	76
NS 32 UNPERF 2000MM	G-profile rail, acc. to EN 60715 – G 32	Steel	35	4.2	**
NS 32 PERF 2000MM	G-profile rail, acc. to EN 60715 – G 32	Steel	35	4.2	**
NS 32-CU/35 QMM UNPERF 2000MM	G-profile rail, dimensions acc. to EN 60715 – G 32	Copper	120	14.4	269
NS 32-CU/120 QMM UNPERF 2000MM	G-profile rail, similar to EN 60715 – G 32	Copper	150	18.0	309
NS 35/7,5 UNPERF 2000MM	DIN rail, acc. to EN 60715 – 35 x 7.5	Steel	16	1.92	**
NS 35/7,5 PERF 2000MM	DIN rail, acc. to EN 60715 – 35 x 7.5	Steel	16	1.92	**
NS 35/7,5 ZN UNPERF 2000MM	DIN rail, similar to EN 60715 – 35 x 7.5	Steel	16	1.92	**
NS 35/7,5 ZN PERF 2000MM	DIN rail, similar to EN 60715 – 35 x 7.5	Steel	16	1.92	**
NS 35/7,5 V2A UNPERF 2000MM	DIN rail, similar to EN 60715 – 35 x 7.5	Steel	16	1.92	**
NS 35/7,5-CU UNPERF 2000MM	DIN rail, similar to EN 60715 – 35 x 7.5	Copper	50	6.0	150
NS 35/7,5-AL UNPERF 2000MM	DIN rail, similar to EN 60715 – 35 x 7.5	Aluminum	35	4.2	125
NS 35/15-2,3 UNPERF 2000MM	DIN rail, acc. to EN 60715 – 35 x 15	Steel	50	6.0	**
NS 35/15 UNPERF 2000MM	DIN rail, similar to EN 60715 – 35 x 15	Steel	25	3.0	**
NS 35/15 PERF 2000MM	DIN rail, similar to EN 60715 – 35 x 15	Steel	25	3.0	**
NS 35/15 ZN UNPERF 2000MM	DIN rail, similar to EN 60715 – 35 x 15	Steel	25	3.0	**
NS 35/15 ZN PERF 2000MM	DIN rail, similar to EN 60715 – 35 x 15	Steel	25	3.0	**
NS 35/15-CU UNPERF 2000MM	DIN rail, similar to EN 60715 – 35 x 15	Copper	95	11.4	232
NS 35/15-AL UNPERF 2000MM	DIN rail, similar to EN 60715 – 35 x 15	Aluminum	70	8.4	192

\* Cross sections calculated according to IEC 60439-1/EN 60439-1/DIN EN 60439-1/VDE 0660-500.

\*\* Protective conductor busbars made of steel may not be used for the PEN function.

### Clearances and creepage distances

#### IEC 60947-7-1/UL 1059

Carrying out a dimensional check of clearances and creepage distances confirms that electrical insulation properties are adequate with respect to the following:

##### – Application

##### – Expected pollution

##### – Ambient conditions

The minimum distances are defined in IEC 60947-1 and UL 1059.

The distance is verified by measuring between two neighboring terminal blocks and the support, taking into account the shortest distances.

##### For the clearance, this means:

It is the shortest distance in the air between two conductive parts. The deciding factors for rating the minimum clearance values are the rated surge voltage and the surge voltage category of the terminal block.

##### For the creepage distances, this means:

It is the shortest distance along the insulating body between two conductive

parts. The deciding factors for determining the minimum creepage distance are the rated voltage, the pollution degree, and the insulation material group of the terminal block.

The minimum values can be taken from the tables of the relevant standards.

#### IEC 60947-7-1

Phoenix Contact terminal blocks are designed with surge voltage category III and pollution degree 3 with the required distances.

















































#### UL 1059

Phoenix Contact terminal blocks are generally designed for a nominal voltage of 600 V in Use Group C.

Detailed information can be found in the data sheets or the catalog documentation.

UL Use Group	Definition	Max. voltage [V]
A	Operating elements, consoles, and similar	150 300 600
B	Conventional devices, including office and electronic data processing equipment and similar	150 300 600
C	Industrial applications, without restrictions	150 300 600
D	Industrial applications, equipment with limited rating	300 600

Certification bodies and safety marks

Certification bodies and approvals	Country code	 Explosion protection	Country code	Ship classification societies	Country code
 IECEE CB Scheme (in combination with certifying body)	International	  International Electrotechnical Commission	International	 Bureau Veritas	FR
 CENELEC Certification Agreement (CCA inspection report) (in combination with certifying body)	EU	 DEKRA DEKRA Certification B.V.	NL	 Germanischer Lloyd AG	DE
 Canadian Standards Association (CSA)	CA	 Physikalisch-Technische Bundesanstalt	DE	 Lloyd's Register of Shipping	GB
 Canadian Standards Association (CSA) - CSA approval for the USA -	US	 KIWA Nederland B.V.	NL	 Nippon Kaiji Kyokai	JP
 Canadian Standards Association. (CSA) Combined logo - CSA approval for Canada and the USA -	CA US	 QS Schaffhausen AG	CH	 Det Norske Veritas	NO
 Underwriters Laboratories Inc. (UL)	US	 VTT Expert Services Oy	FI	 Polski Rejestr Statków	PL
 Underwriters Laboratories Inc. (UL) - UL approval for Canada -	CA	 IBEXU Institut für Sicherheitstechnik GmbH	DE	 Russian Maritime Register of Shipping	RU
 Underwriters Laboratories Inc. (UL) Combined logo - UL approval for the USA and Canada -	US CA	 TÜV Rheinland do Brasil	BR	 Korean Register of Shipping	KR
 INSIEME PER LA QUALITA'E LA SICUREZZA	IT	 Technischer Überwachungsverein Nord	DE	 American Bureau of Shipping	US
 Eurasian Conformity	BY KZ RU	 DEKRA EXAM GmbH	DE		
 DEKRA Certification B.V.	NL	 Canadian Standards Association (CSA)	CA		
 Österreichischer Verband für Elektrotechnik	AT	 Canadian Standards Association (CSA) - CSA approval for the USA -	US		
 electrosuisse SEV Verband für Elektro-, Energie- und Informationstechnik	CH	 Canadian Standards Association. (CSA) Combined logo - CSA approval for Canada and the USA -	CA US		
 Verband Deutscher Elektrotechniker e.V. (VDE) - Approval of drawings - Reports with production monitoring	DE	 Underwriters Laboratories Inc. (UL)	US		
 Berufsgenossenschaft (BG) GS - Geprüfte Sicherheit	DE	 Underwriters Laboratories Inc. (UL) - UL approval for Canada -	CA		
 Intertek ETL Listed - Approval for the USA -	US	 Underwriters Laboratories Inc. (UL) Combined logo - UL approval for the USA and Canada -	US CA		
 Intertek ETL Listed - Approval for Canada -	CA	 FM Approvals	US		
 Intertek ETL Listed - Approval for the USA and Canada -	US CA	 Eurasian Conformity for Ex-products	BY KZ RU		
 TÜV Rheinland Industrie Service GmbH	DE				
 China Compulsory Certificate	CN				



For up-to-date modifications or supplements  
to the catalog contents, please visit:  
**[phoenixcontact.net/webcode/#0132](http://phoenixcontact.net/webcode/#0132)**

