

**Data sheet | Item number: 733-209**

1-conductor male connector; CAGE CLAMP®; 0.5 mm<sup>2</sup>; Pin spacing 2.5 mm;  
9-pole; 100% protected against mismatching; 0,50 mm<sup>2</sup>; light gray

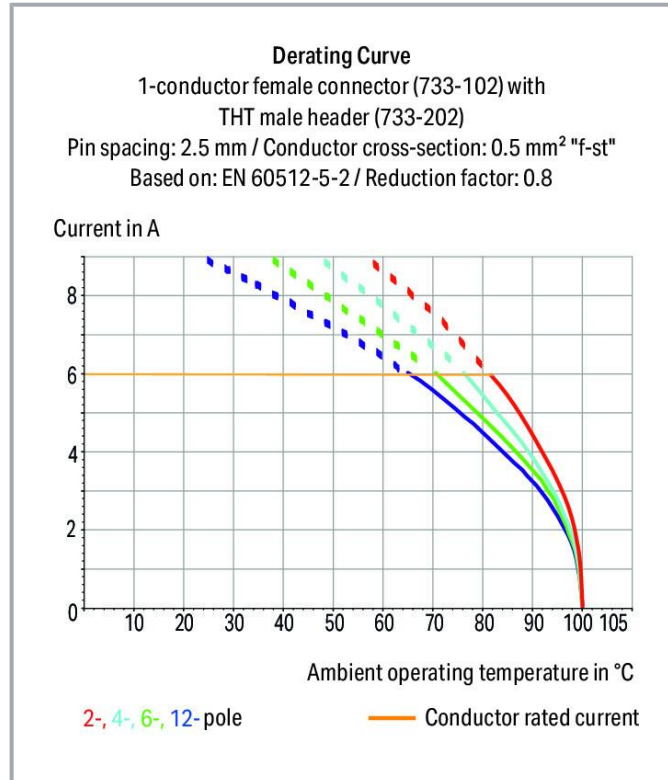


[www.wago.com/733-209](http://www.wago.com/733-209)



**i** Picture differs from the item.

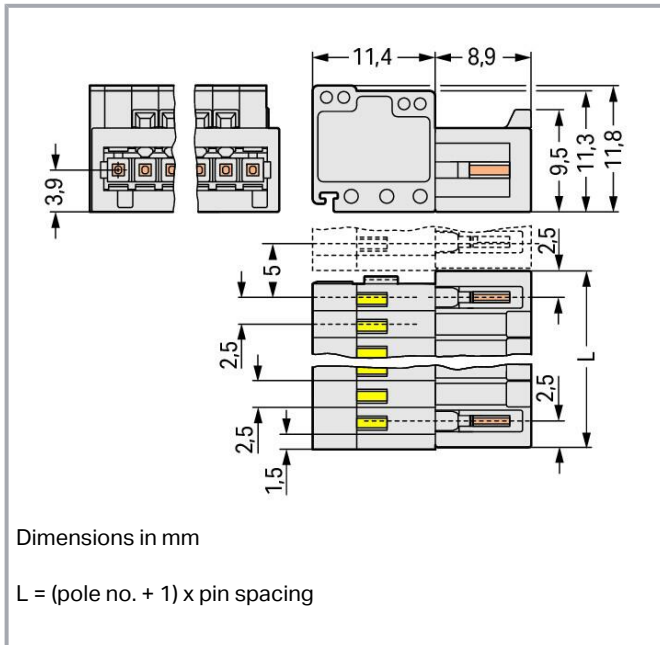
Color: —



Subject to changes. Please also observe the further product documentation!

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## Item description

- Universal connection for all conductor types
- Easy cable pre-assembly and on-unit wiring via vertical and horizontal CAGE CLAMP® actuation
- For wire-to-wire connections
- 100% protected against mismatching
- Coding option available

## Data

### Notes

#### Safety information

The *MCS – MULTI CONNECTION SYSTEM* includes connectors without breaking capacity in accordance with DIN EN 61984. When used as intended, these connectors must not be connected /disconnected when live or under load. When used as intended, these connectors must not be connected/disconnected when live or under load. The circuit design should ensure header pins, which can be touched, are not live when unmated.

#### Variants:

Other pole numbers  
 Gold-plated or partially gold-plated contact surfaces  
 Other versions (or variants) can be requested from WAGO Sales or configured at <https://configurator.wago.com/>.

Subject to changes. Please also observe the further product documentation!



## Electrical data

### Ratings per IEC/EN

Ratings per	IEC/EN 60664-1
Nominal voltage (III/3)	100 V
Rated impulse voltage (III/3)	2.5 kV
Rated voltage (III/2)	160 V
Rated impulse voltage (III/2)	2.5 kV
Nominal voltage (II/2)	320 V
Rated surge voltage (II/2)	2.5 kV
Rated current	6 A
Legend (ratings)	(III / 2) $\triangleq$ Overvoltage category III / Pollution degree 2

### Ratings per UL 1059

Approvals per	UL 1059
Rated voltage UL (Use Group B)	150 V
Rated current UL (Use Group B)	4 A

### Ratings per CSA

Approvals per	CSA
Rated voltage CSA (Use Group B)	150 V
Rated current CSA (Use Group B)	4 A

## Connection data

Connection points	9
Total number of potentials	9
Number of connection types	1
Number of levels	1

## Connection 1

Connection technology	CAGE CLAMP®
Actuation type	Operating tool
Actuation direction 1	Operation parallel to conductor entry
Actuation direction 2	Operation perpendicular to conductor entry
Solid conductor	0.08 ... 0.5 mm <sup>2</sup> / 28 ... 20 AWG
Fine-stranded conductor	0.08 ... 0.5 mm <sup>2</sup> / 28 ... 20 AWG

Subject to changes. Please also observe the further product documentation!



Fine-stranded conductor; with insulated ferrule	0.25 ... 0.34 mm <sup>2</sup>
Fine-stranded conductor; with uninsulated ferrule	0.25 ... 0.34 mm <sup>2</sup>
Strip length	5 ... 6 mm / 0.2 ... 0.24 inches
Pole number	9
Conductor entry direction to mating direction	0°

### Physical data

Pin spacing	2.5 mm / 0.098 inches
Width	25 mm / 0.984 inches
Height	11.8 mm / 0.465 inches
Depth	20.3 mm / 0.799 inches

### Mechanical Data

Variable coding	Yes
Anti-rotation protection	Yes

### Plug-in connection

Contact type (pluggable connector)	Male connector/plug
Connector (connection type)	for conductor
Mismating protection	Yes
Plugging without loss of pin spacing	No
Locking of plug-in connection	none

### Material Data

Note (material data)	<a href="#">Information on material specifications can be found here</a>
Color	light gray
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Electrolytic copper (E <sub>Cu</sub> )
Contact plating	Tin
Fire load	0.088 MJ
Weight	4.4 g

Subject to changes. Please also observe the further product documentation!

## Environmental requirements

Limit temperature range	-60 ... +100 °C
Processing temperature	-35 ... +60 °C

## Commercial data

Product Group	3 (Multi Conn. System)
eCl@ss 10.0	27-44-03-09
eCl@ss 9.0	27-44-03-09
ETIM 8.0	EC002638
ETIM 7.0	EC002638
PU (SPU)	100 pcs
Packaging type	box
Country of origin	PL
GTIN	4050821079019
Customs tariff number	85366990990

## Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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## Approvals / Certificates


### General approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	IEC 61984	NL-31141
	CCA DEKRA Certification B.V.	EN 61984	2169534.01
	CSA DEKRA Certification B.V.	C22.2	1465035
	UL UL International Germany GmbH	UL 1977	E45171
	UR Underwriters Laboratories Inc.	UL 1059	E45172




Subject to changes. Please also observe the further product documentation!





## Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
	<b>Railway</b> WAGO GmbH & Co. KG	-	Railway Ready

## Approvals for marine applications

Logo	Approval	Additional Approval Text	Certificate name
	<b>ABS</b> American Bureau of Shipping	-	19- HG1869876- PDA
	<b>DNV GL</b> Det Norske Veritas, Germanischer Lloyd	-	TAE000016Z
	<b>LR</b> Lloyds Register	IEC 61984	96/20035 (E5)

## Counterpart

	<b>Item no.733-109</b> 1-conductor female connector; CAGE CLAMP®; 0.5 mm <sup>2</sup> ; Pin spacing 2.5 mm; 9-pole; 100% protected against mismatching; 0,50 mm <sup>2</sup> ; light gray	<a href="http://www.wago.com/733-109">www.wago.com/733-109</a>
	<b>Item no.733-109/037-000</b> 1-conductor female connector; CAGE CLAMP®; 0.5 mm <sup>2</sup> ; Pin spacing 2.5 mm; 9-pole; 100% protected against mismatching; Lateral locking levers; 0,50 mm <sup>2</sup> ; light gray	<a href="http://www.wago.com/733-109/037-000">www.wago.com/733-109/037-000</a>

## Optional accessories

## Tool

Operating tool

Subject to changes. Please also observe the further product documentation!

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**Item no.: 210-251**

Operating tool; for MCS MICRO and MINI with CAGE CLAMP® connection; yellow

[www.wago.com/210-251](http://www.wago.com/210-251)



**Item no.: 210-719**

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

[www.wago.com/210-719](http://www.wago.com/210-719)



**Item no.: 233-332**

Operating tool; made of insulating material; white

[www.wago.com/233-332](http://www.wago.com/233-332)



**Item no.: 233-331**

Operating tool; insulated; yellow

[www.wago.com/233-331](http://www.wago.com/233-331)



**Item no.: 233-335**

Operating tool; green

[www.wago.com/233-335](http://www.wago.com/233-335)



**Item no.: 733-191**

Operating tool; made of insulating material; 1-way; loose; yellow

[www.wago.com/733-191](http://www.wago.com/733-191)



**Item no.: 733-130**

Operating tool; made of insulating material; 1-way; loose; white

[www.wago.com/733-130](http://www.wago.com/733-130)

## Coding

### Coding



**Item no.: 733-330**

Coding key; snap-on type; white

[www.wago.com/733-330](http://www.wago.com/733-330)



**Item no.: 733-331**

Coding key; snap-on type; black

[www.wago.com/733-331](http://www.wago.com/733-331)

## Strain relief

### Strain relief plate



**Item no.: 734-128**

Strain relief plate; for female and male connectors; 12.5 mm wide; 1 part; Pin spacing 3.5 mm; light gray

[www.wago.com/734-128](http://www.wago.com/734-128)

## Testing and measuring

### Testing accessories



**Item no.: 735-500**

WAGO Test pin; 1 mm Ø; 30 V AC / 60 V DC; CAT0; 1 A; 6 mm uninsulated; Test lead for soldering up to 0,5mm<sup>2</sup>

[www.wago.com/735-500](http://www.wago.com/735-500)

## Ferrule

### Ferrule

**Item no.: 216-132**

Ferrule; Sleeve for 0.34 mm<sup>2</sup> / AWG 24; uninsulated; electro-tin plated

[www.wago.com/216-132](http://www.wago.com/216-132)

Subject to changes. Please also observe the further product documentation!

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	<b>Item no.: 216-131</b> Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated; silver-colored	<a href="http://www.wago.com/216-131">www.wago.com/216-131</a>
1	<b>Item no.: 216-152</b> Ferrule; Sleeve for 0.34 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated	<a href="http://www.wago.com/216-152">www.wago.com/216-152</a>
1	<b>Item no.: 216-151</b> Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated	<a href="http://www.wago.com/216-151">www.wago.com/216-151</a>
1	<b>Item no.: 216-301</b> Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow	<a href="http://www.wago.com/216-301">www.wago.com/216-301</a>
1	<b>Item no.: 216-321</b> Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow	<a href="http://www.wago.com/216-321">www.wago.com/216-321</a>
1	<b>Item no.: 216-322</b> Ferrule; Sleeve for 0.34 mm <sup>2</sup> / 22 AWG; insulated; electro-tin plated; light turquoise	<a href="http://www.wago.com/216-322">www.wago.com/216-322</a>
1	<b>Item no.: 216-302</b> Ferrule; Sleeve for 0.34 mm <sup>2</sup> / 22 AWG; insulated; electro-tin plated; light turquoise	<a href="http://www.wago.com/216-302">www.wago.com/216-302</a>

## Downloads

### Documentation

#### Additional Information

Technical Section	2019 Apr 3	pdf	Download
Technical explanations		2.0 MB	

## CAD/CAE-Data

### CAD data

2D/3D Models 733-209	URL	Download
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### CAE data

ZUKEN Portal 733-209	URL	Download
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## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 733-209 1-conductor male connector; CAGE CLAMP®; 0.5 mm <sup>2</sup> ; Pin spacing 2.5 mm; 9-pole; 100% protected against mismatching; 0,50 mm <sup>2</sup> ; light gray	URL	Download
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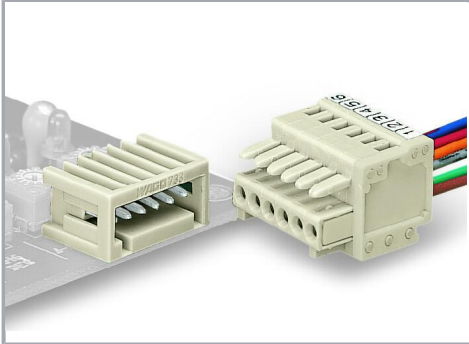
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## Installation Notes

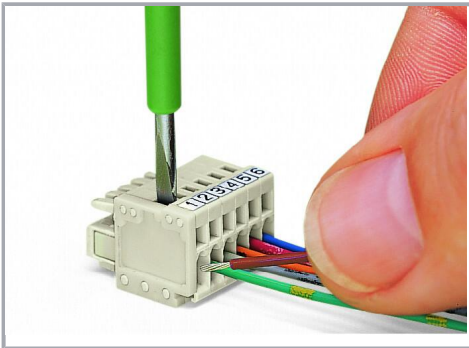
### Mismatching protection



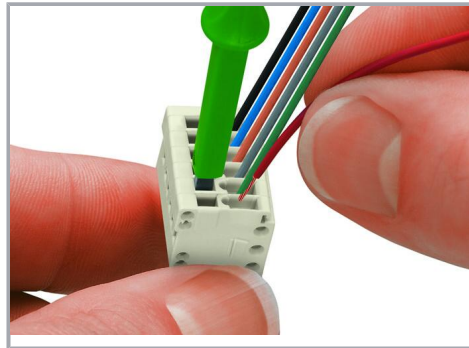
Male headers and female connectors are 100% protected against mismatching.

Only mating halves with the same pole number can be connected.

### Conductor termination

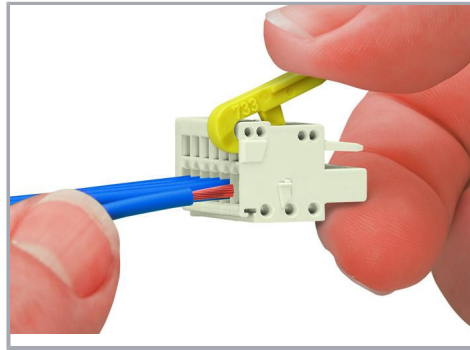
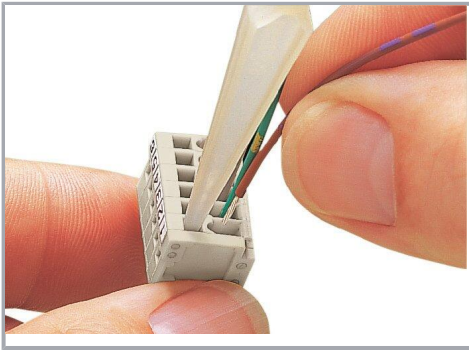


Inserting conductor via (2.5 x 0.4) mm screwdriver – CAGE CLAMP® actuation perpendicular to conductor entry.

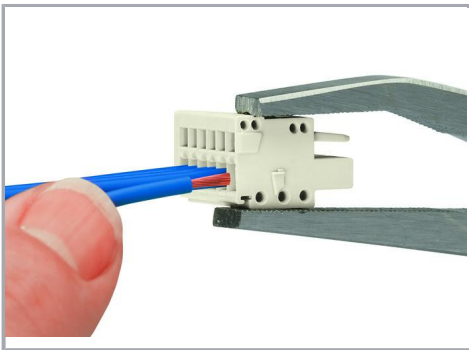


Conductor termination via screwdriver (233-335) – parallel to CAGE CLAMP® actuation

Subject to changes. Please also observe the further product documentation!

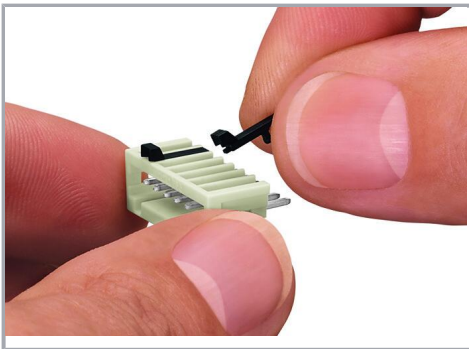


Conductor termination via operating tool (733-191)



Conductor termination via operating tool (210-251)

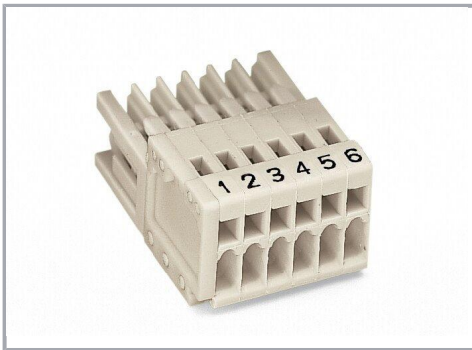
### Coding



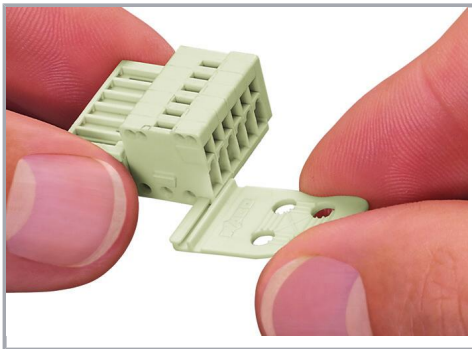
Coding a male header – fitting coding key(s).

### Marking

Subject to changes. Please also observe the further product documentation!



### Installation



Strain relief plates for factory or in-the-field assembly

### Testing



Testing via 1 mm Ø test pin (735-500), touch contact.

### Product family

**MCS MICRO**

[Show all products from the family](#)

Subject to changes. Please also observe the further product documentation!