

NOTES - ELECTRICAL DATA :

RATED VOLTAGE: 3 contacts 60V AC/DC
4 and 5 contacts 30V AC/DC

CURRENT RATING: 3, 4, 5 contacts 3A

PROTECTION CLASS: IP 67

TEMPERATURE: -25°C / +80°C

NOTE:

- IF IN MATRIX IS H OR CABLE B36
- ID CARRIERS PUT ON BOTH SIDES OF CABLE
- COLOR OVERMOULD - SEE MATRIX
- PART LIST AND PART KEY ON SHEET 2

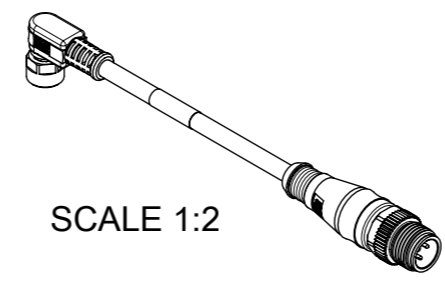
CONTACTS POSITION FRONT VIEW:

	3 CONTACTS		4 CONTACTS		5 CONTACTS	
M8 - FEMALE						
M12 - MALE						
CONNECTIONS	PIN	WIRE	PIN	WIRE	PIN	WIRE
	1	BROWN	1	BROWN	1	BROWN
	-	-	2	WHITE	2	WHITE
	3	BLUE	3	BLUE	3	BLUE
	4	BLACK	4	BLACK	4	BLACK
				5	GREY or GREY/YELLOW	

CODING M8 ACCORDING TO IEC 61076-2-104
CODING M12 ACCORDING TO IEC IEC 61076-2-101

BOM

ITEM	QTY	DESCRIPTION	MATERIAL	FINISH/ COLOR
11	2	I/D CARRIER (SEE MATRIX)	-	-
10	1	LABEL	VINYL	YELLOW
9	1	NUT M12 MALE	BRASS	Ni-PLATED/TEFLON
8	1	NUT M8 FEMALE	BRASS	Ni-PLATED/TEFLON
7	1	GASKET	FKM	RED
6	1	INSERT 3/4/5P M12 MALE	PUR	BLACK
5	1	INSERT M8 FE 3/4/5P	PUR	BLACK
4	3/4/5	CONTACT 10 FEMALE	BRASS	GOLD OVER NICKEL
3	3/4/5	CONTACT 10 MALE	BRASS	GOLD OVER NICKEL
2	-	MOULDING MATERIAL	TPU	YELLOW/BLACK
1	-	CABLE	TPU	BLACK



FUNCTIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	CURRENT REV DESC:		molex	
	DIMENSION UNITS: mm SCALE: 2:1 GENERAL TOLERANCES (UNLESS SPECIFIED): ANGULAR TOL ± 1.0° 4 PLACES ± 3 PLACES ± 2 PLACES ± 0.05 1 PLACE ± 0.3 0 PLACES ± 0.5	EC NO: 653220 DRWN: SSM CHK'D: RSILLER APPR: RSILLER INITIAL REVISION: DRWN: SSM APPR: RSILLER	2020/12/09 2021/01/18 2021/01/18 2020/12/09 2021/01/18		
DIVISIONAL SYMBOLS	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIRD ANGLE PROJECTION	DRAWING	SERIES	SHEET NUMBER
			A3-SIZE	120087	1 OF 2

PART No. MATRIX

4 8 X 0 3 1 B 4 1 X X X X X

OPTIONS

48=Nano-Change
M8x1 to
Micro-Change
M12x1

Poles:
3=3 Poles
4=4 Poles
5=5 Poles

Heads style :
031=Plug Female 90°
to Plug Male Straight

Cable type: B41 - 0,25mm²
TPU BK

Units:
M=Meter

Length:
005=0.5 units
010=1 units
100=10 units

Overmold color:

Blank = Black
A = Grey
G = Black
Y = Yellow

Coupling Nut:
Blank = KNU HEX
7 = TEFLON KNU

H OR CABLE B36= 2 pcs. of
I/D Carrier PVC Transparent

PART LIST

ITEM	MOLEX PN	ENGINEERING NO	L [mm]
1	1200878787	484031B41M006	600
2	1200878788	484031B41M010	1000
3	1200878789	484031B41M020	2000
4	1200878790	484031B41M030	3000
5	1200878791	484031B41M050	5000
6	1200878792	484031B41M100	10000
7	1200878799	483031B41M006	600
8	1200878800	483031B41M010	1000
9	1200878801	483031B41M020	2000
10	1200878802	483031B41M030	3000
11	1200878803	483031B41M050	5000
12	1200878804	483031B41M100	10000
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			

CABLE LENGTH TOLERANCES

LENGTH	TOLERANCE
0m-1m	+40 mm
>1m-5m	+60 mm
>5m-10m	+80 mm
>10m-20m	+140 mm
>20m-30m	+160 mm
>30m	+1% length

FUNCTIONAL SYMBOLS ▽/A = 0 ▽/E = 0 ▽/V = 0	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC:	
	DIMENSION UNITS mm	SCALE 1:1	EC NO: 653220 DRWN: SSM CHK'D: RSILLER APPR: RSILLER	
DIVISIONAL SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		2020/12/09	
	ANGULAR TOL ± 1.0 °	4 PLACES ±	2021/01/18	2021/01/18
	3 PLACES ±	INITIAL REVISION:		
	2 PLACES ± 0.05	DRWN: SSM	2020/12/09	
	1 PLACE ± 0.3	APPR: RSILLER	2021/01/18	
	0 PLACES ± 0.5	DOCUMENT NUMBER		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	SERIES
			A3-SIZE	120087
		MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
		SEE PART LIST	GENERAL MARKET	2 OF 2

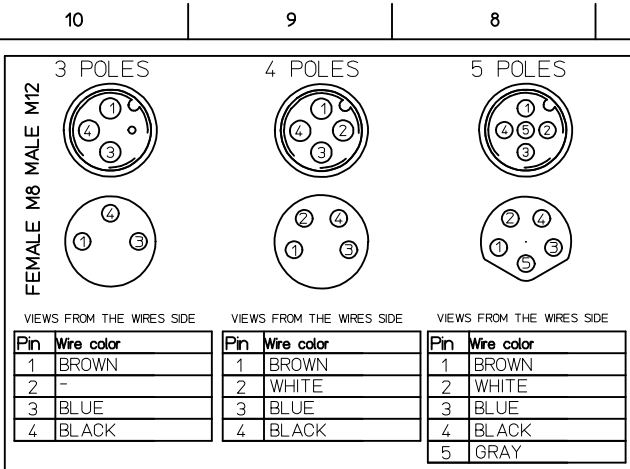
molex

CSE M8 M12 3P AC FE RA WSOR MA STR XM DE

PRODUCT CUSTOMER DRAWING

1200878800

PSD 000 A



PART No MATRIX

4 8 * 0 3 1 B * * M * * * * *

48 = M8x1 M12x1

Poles:
3 = 3 POLES
4 = 4 POLES
5 = 5 POLES

Header:
031 = FEMALE 90 - MALE STRAIGHT

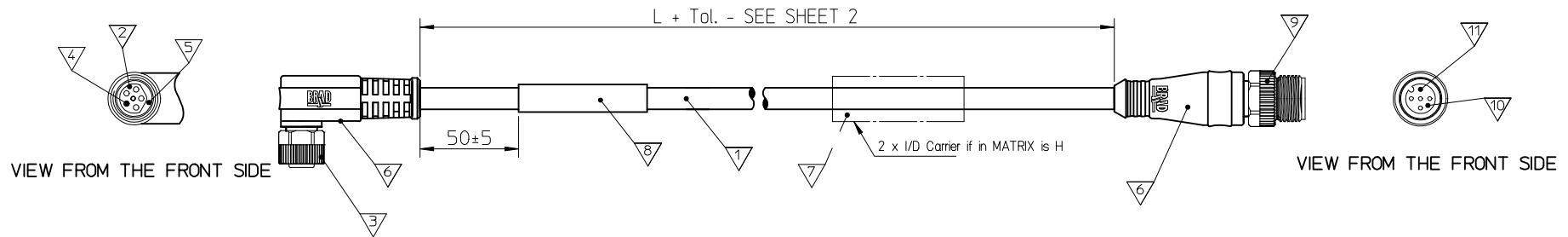
Cable:
B41 = 0.25mm², TPU BLACK
B49 = 0.25mm², TPU ORANGE

Unit:
M = meter

Length:
Example:
010 = 1 m
050 = 5 m
100 = 10 m

OPTIONS

H = 2 pcs. of I/D Carrier
Overmould:
Blank = Black
A = Grey
G = Black
Y = Yellow



Bill of Materials

ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH
11	-	CONTACT MALE	SEE MATRIX	SEE MATRIX
10	1	INSERT M12 MALE	SEE MATRIX	SEE MATRIX
9	1	COUPLING NUT MALE M12	BRASS	NI PLATED
8	1	LABEL	-	YELLOW
7	-	ID CARRIER	SEE MATRIX	SEE MATRIX
6	-	MOLDING MATERIAL	SEE MATRIX	SEE MATRIX
5	1	O-RING	FPM	RED
4	-	CONTACT FEMALE	SEE MATRIX	SEE MATRIX
3	1	COUPLING NUT FEMALE M8	BRASS	NI PLATED
2	1	INSERT M8 FEMALE	SEE MATRIX	SEE MATRIX
1	-	CABLE	SEE MATRIX	SEE MATRIX

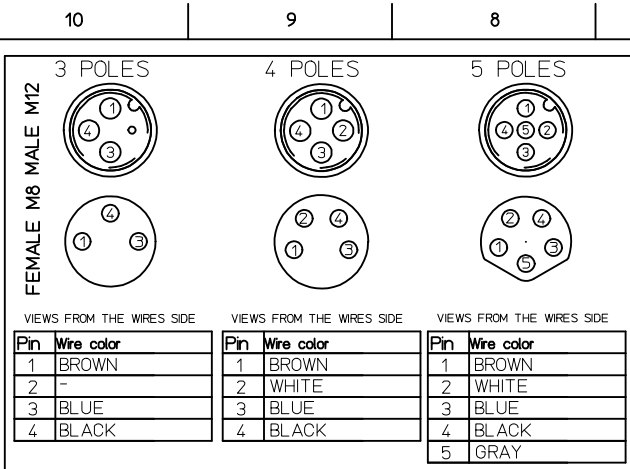
ADDED TABLE WITH PN
SEE SHEET 2
EC NO: IPG2016-0473
DRWN: AKONDRACIUK 2015/10/20
CHKD: MMAJGAT 2015/10/20
APPR: MIWASIECZKO 2015/11/03

QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)
▽=0	mm INCH
▽=0	4 PLACES ± --- ± ---
	3 PLACES ± --- ± ---
	2 PLACES ± --- ± ---
	1 PLACE ± --- ± ---
	0 PLACE ± --- ± ---
	ANGULAR ± 1 °
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
MM ONLY		---	METRIC	⊙
DRAWN BY	DATE	TITLE		
AKONDRACIUK	2015/09/18	CSE M8 M12 XP AC FE MA		
CHECKED BY	DATE	TPU XM DE		
MMAJGAT	2015/10/07			
APPROVED BY	DATE			
MIWASIECZKO	2015/10/09			
MATERIAL NO.	DOCUMENT NO.	SHEET NO.		
SEE TABLE 1	SD-120087-057	1 OF 2		

molex

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PART No MATRIX

4 8 * 0 3 1 B * * M * * * * *

48 = M8x1 M12x1

Poles:
3 = 3 POLES
4 = 4 POLES
5 = 5 POLES

Header:
031 = FEMALE 90 - MALE STRAIGHT

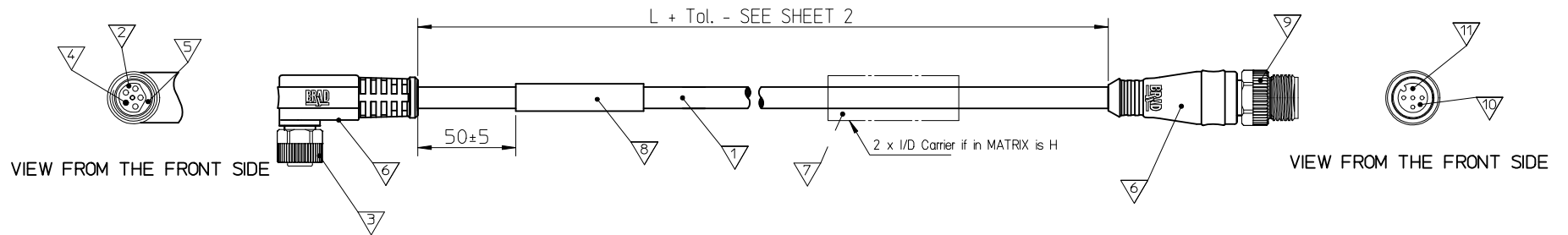
Cable:
B41 = 0.25mm², TPU BLACK
B49 = 0.25mm², TPU ORANGE

Unit:
M = meter

Length:
Example:
010 = 1 m
050 = 5 m
100 = 10 m

OPTIONS

H = 2 pcs. of I/D Carrier
Overmould:
Blank = Black
A = Grey
G = Black
Y = Yellow



Bill of Materials

ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH
11	-	CONTACT MALE	SEE MATRIX	SEE MATRIX
10	1	INSERT M12 MALE	SEE MATRIX	SEE MATRIX
9	1	COUPLING NUT MALE M12	BRASS	NI PLATED
8	1	LABEL	-	YELLOW
7	-	ID CARRIER	SEE MATRIX	SEE MATRIX
6	-	MOLDING MATERIAL	SEE MATRIX	SEE MATRIX
5	1	O-RING	FPM	RED
4	-	CONTACT FEMALE	SEE MATRIX	SEE MATRIX
3	1	COUPLING NUT FEMALE M8	BRASS	NI PLATED
2	1	INSERT M8 FEMALE	SEE MATRIX	SEE MATRIX
1	-	CABLE	SEE MATRIX	SEE MATRIX

ADDED TABLE WITH PN
SEE SHEET 2
EC NO: IPG2016-0473
DRWN: AKONDRACIUK 2015/10/20
CHKD: MMAJGAT 2015/10/20
APPR: MIWASIECZKO 2015/11/03

QUALITY SYMBOLS
▽=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± ---	± ---
1 PLACE	± ---	± ---
0 PLACE	± ---	± ---

ANGULAR ± 1 °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE
MM ONLY

DRAWN BY: AKONDRACIUK
DATE: 2015/09/18

CHECKED BY: MMAJGAT
DATE: 2015/10/07

APPROVED BY: MIWASIECZKO
DATE: 2015/10/09

MATERIAL NO. SEE TABLE 1

SCALE: ---

DESIGN UNITS: METRIC

THIRD ANGLE PROJECTION

TITLE: CSE M8 M12 XP AC FE MA TPU XM DE

molex

DOCUMENT NO. SD-120087-057

SHEET NO. 1 OF 2

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TABLE 1

MOLEX PN	ENGINEERING No	L [mm]
1200878787	484031B41M006	600
1200878788	484031B41M010	1000
1200878789	484031B41M020	2000
1200878790	484031B41M030	3000
1200878791	484031B41M050	5000
1200878792	484031B41M100	10000
1200878799	483031B41M006	600
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1200878801	483031B41M020	2000
1200878802	483031B41M030	3000
1200878803	483031B41M050	5000
1200878804	483031B41M100	10000

Table of length tolerances		
Over	Up to and including	Tolerance (+)
0	1000	+40 0
1000	5000	+60 0
5000	10000	+80 0
10000	20000	+140 0
20000	30000	+160 0
30000	>	+1 % of length

ADDED TABLE WITH PN SEE SHEET 2 EC NO: IPG2016-0473 DRWN: AKONDRACIUK 2015/10/20 CHKD: MMAJGAT 2015/10/20 APPR: MIWASIECZKO 2015/11/03	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
	 		mm	INCH	DRAWN BY	DATE	TITLE			
		4 PLACES	± ---	± ---	AKONDRACIUK	2015/10/20	CSE M8 M12 XP AC FE MA			
		3 PLACES	± ---	± ---	CHECKED BY	DATE	TPU XM DE			
2 PLACES		± ---	± ---	MMAJGAT	2015/10/20					
1 PLACE	± ---	± ---	APPROVED BY	DATE	MATERIAL NO.					DOCUMENT NO.
0 PLACE	± ---	± ---	MIWASIECZKO	2015/11/03	SEE TABLE 1		SD-120087-057		SHEET NO.	
ANGULAR ± 1 °		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
A1	REV			A3	2 OF 2					

TABLE 1

MOLEX PN	ENGINEERING No	L [mm]
1200878787	484031B41M006	600
1200878788	484031B41M010	1000
1200878789	484031B41M020	2000
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1200878791	484031B41M050	5000
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1200878804	483031B41M100	10000

Table of length tolerances		
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5000	10000	+80 0
10000	20000	+140 0
20000	30000	+160 0
30000	>	+1 % of length

ADDED TABLE WITH PN SEE SHEET 2 EC NO: IPG2016-0473 DRWN: AKONDRACIUK 2015/10/20 CHKD: MMAJGAT 2015/10/20 APPR: MIWASIECZKO 2015/11/03	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
	= 0 = 0		mm	INCH	DRAWN BY	DATE	TITLE			
		4 PLACES	± ---	± ---	AKONDRACIUK	2015/10/20	CSE M8 M12 XP AC FE MA TPU XM DE			
		3 PLACES	± ---	± ---	CHECKED BY	DATE				
2 PLACES		± ---	± ---	MMAJGAT	2015/10/20					
1 PLACE	± ---	± ---	APPROVED BY	DATE	MATERIAL NO.		DOCUMENT NO.		SHEET NO.	
0 PLACE	± ---	± ---	MIWASIECZKO	2015/11/03	SEE TABLE 1		SD-120087-057		2 OF 2	
ANGULAR ± 1 °		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						