

M12 FEMALE
FACE VIEW

3 POLE

4 POLE

5 POLE

Pin	Wire color
1	BROWN
3	BLUE
4	BLACK

Pin	Wire color
1	BROWN
2	WHITE
3	BLUE
4	BLACK

Pin	Wire color
1	BROWN
2	WHITE
3	BLUE
4	BLACK
5	GREY

TECHNICAL DATA	
TEMPERATURE RANGE	-25°C /+80°C
RATED CURRENT	3A
RATED VOLTAGE	3 Poles 60V
	4 & 5 Poles 30V
PROTECTION CLASS	IP 67
INSULATION RESISTANCE:	10 ⁸ Ω MIN.
MATING CYCLES	MIN. 100

M8 MALE
FACE VIEW

5 POLE

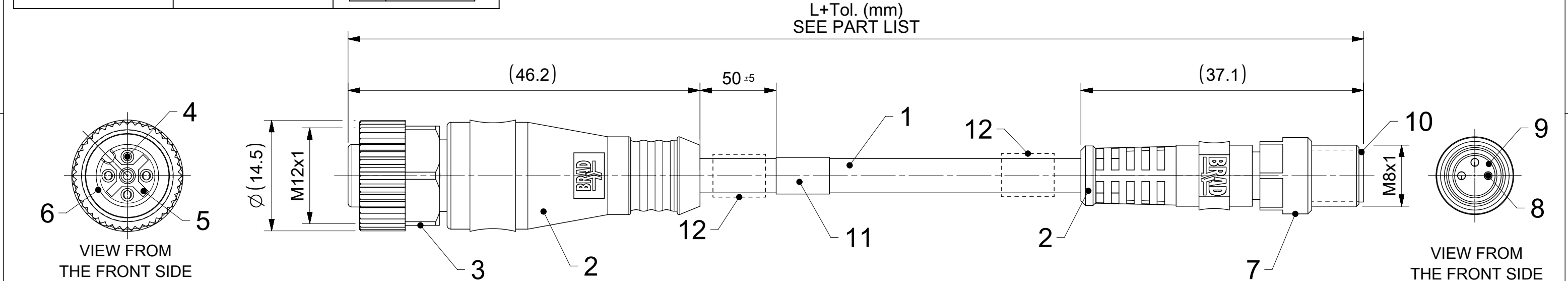
4 POLE

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1	BROWN
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Pin	Wire color
1	BROWN
3	BLUE
4	BLACK



BOM				
ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH/COLOR
1	-	CABLE Xx0.25mm ²	TPU	BLACK
2	-	MOULDING MATERIAL	TPU	BLACK
3	1	M12 HEX KNU FE NUT	BRASS	Ni-PLATED
4	X	CONTACT FEMALE	Cu ALLOY	GOLD OVER NICKEL
5	1	INSERT M12 FEMALE XP	ELASTOLLAN	BLACK
6	1	GASKET	FPM	RED
7	1	M8 HEX KNU MALE NUT	BRASS	Ni-PLATED
8	X	CONTACT MALE	BRASS	Ni-PLATED
9	1	INSERT M8 MALE XP	ELASTOLLAN	BLACK
10	1	M8 MALE SLEEVE	Cu ALLOY	GOLD OVER NICKEL
11	1	STANDARD WRAP LABEL	VINYL	YELLOW
12	2	ID CARRIER (SEE MATRIX)	PVC	-

DOCUMENT STATUS	P1	RELEASE DATE	2024/07/02	09:18:01
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- NOTE:
1. LOGO BRAD- ONLY IN ONE SIDE ON THE OVERMOULD.

2. IF IN MATRIX IS "H" - ID CARRIER ON THE BOTH SIDES CONNECTOR.

FUNCTIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION															
	DIMENSION UNITS		SCALE		CURRENT REV DESC: AS PER THE PCN-513749 CHANGED DIMENSIONING STYLE OF OVERALL LENGTH TO "END TO END". ADDED INFO IN TECHNICAL DATA. SORTED PART LIST USING CABLE TYPES ON SHEET 2 AND ADDED TOL. TABLE			molex CSE M12 M8 XP AC FE STR WSOR MA STR XM DE								
	mm		2:1													
	GENERAL TOLERANCES (UNLESS SPECIFIED)		ANGULAR TOL ± 1.0 °			EC NO: 789428 DRWN: AKABADI 2023/08/03 CHK'D: RSILLER 2024/07/02 APPR: RSILLER 2024/07/02			PRODUCT CUSTOMER DRAWING							
4 PLACES ±																
3 PLACES ±																
2 PLACES ± 0.05																
DIVISIONAL SYMBOLS	1 PLACE ± 0.3		INITIAL REVISION: DRWN: SSM 2021/12/06 APPR: RSILLER 2022/02/28			DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION				
	0 PLACES ± 0.5					1200669234		PSD		000		B				
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
							A3-SIZE		120066		SEE PART LIST		GENERAL MARKET		1 OF 2	

OPTIONS

H

H = 2 PCS. OF I/D CARIERR

CABLE TYPE	WIRE GAUGE	CABLE JACKET	UL	CSA	STATIC	FLEXING	DRAW CHAIN TESTED	OTHER
B41	0.25mm ²	TPU BLACK	STYLE 21215	YES	-40°C TO +90°C 5xD	-25°C TO +80°C 7.5xD	5 mio cycles	WELD SLAG RESISTANCE

MOLEX PN	ENGINEERING No	L [mm]
4P CABLE B41		
1200669346	844030B41M020	2000
1200669347	844030B41M030	3000
1200669348	844030B41M040	4000

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

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FUNCTIONAL SYMBOLS	DIMENSION UNITS		SCALE		CURRENT REV DESC: AS PER THE PCN-513749 CHANGED DIMENSIONING STYLE OF OVERALL LENGTH TO "END TO END". ADDED INFO IN TECHNICAL DATA. SORTED PART LIST USING CABLE TYPES ON SHEET 2 AND ADDED TOL. TABLE				molex CSE M12 M8 XP AC FE STR WSOR MA STR XM DE							
	mm		1:1													
	GENERAL TOLERANCES (UNLESS SPECIFIED)								PRODUCT CUSTOMER DRAWING							
	ANGULAR TOL ± 1.0°															
	4 PLACES		±		DOCUMENT NUMBER 1200669234						DOC TYPE PSD		DOC PART 000		REVISION B	
	3 PLACES		±													
	2 PLACES		± 0.05		INITIAL REVISION: DRWN: SSM 2021/12/06 APPR: RSILLER 2022/02/28						MATERIAL NUMBER SEE PART LIST		CUSTOMER GENERAL MARKET		SHEET NUMBER 2 OF 2	
	1 PLACE		± 0.3													
0 PLACES		± 0.5		THIRD ANGLE PROJECTION		DRAWING A3-SIZE		SERIES 120066								
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS																

PART NO MATRIX-NUMERICAL CODE (Available parts see PART LIST table. Others parts available upon request).

OPTIONS

8

4

X

0

3

0

B

4

1

M

*

*

*

H

84 = M12 - M8

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

030 = STRAIGHT FEMALE
- STRAIGHT MALE

CABLE:
B41 = 0,25mm², TPU BLACK

UNIT:
M = METER

LENGTH:
EXAMPLE:
010 = 1 m
050 = 5 m
100 = 10 m

H = 2 PCS. OF I/D CARIERR

CABLE TYPE	WIRE GAUGE	CABLE JACLET	UL	CSA	STATIC	FLEXING	DRAG CHAIN TESTED	OTHER
B41	0.25mm²	TPU BLACK	STYLE 21215	YES	-40°C TO +90°C 5xD	-25°C TO +80°C 7.5xD	5 mio cycles	WELD SLAG RESISTANCE

For Raw Cable Specification see SD-120209-006

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		
DOCUMENT STATUS	P1	RELEASE DATE	2021/11/02	08:24:09

FUNCTIONAL SYMBOLS

FA

=

0

FE

=

0

FE

=

0

DIVISIONAL SYMBOLS

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DIMENSION UNITS

SCALE

CURRENT REV DESC: PART LIST DELETED

mm

1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ± °

4 PLACES ±

3 PLACES ±

2 PLACES ±

1 PLACE ±

0 PLACES ±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

THIRD ANGLE PROJECTION

DRAWING

SERIES

MATERIAL NUMBER

CUSTOMER

SHEET NUMBER

EC NO: 683109

DRWN: MKOWALCZYK01

CHK'D: ALEKSP3

APPR: KMARCINIAK01

INITIAL REVISION:

DRWN: AKONDRACIUK

APPR: MIWASIECZKO

2021/10/19

2021/10/28

2021/11/02

2016/06/06

2016/06/21

1200669234

PSD

00P

A4

SEE MATRIX

GENERAL MARKET

2 OF 2

mo

lex

CSE M12 3P AC FE STR WSOR MA STR XM

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER

DOC TYPE

DOC PART

REVISION