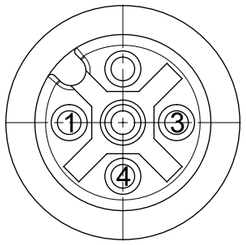
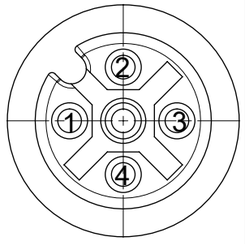
M12 FEMALE
FACE VIEW

3 POLE



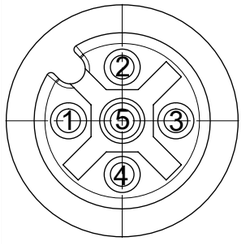
Pin	Wire color
1	BROWN
3	BLUE
4	BLACK

4 POLE



Pin	Wire color
1	BROWN
2	WHITE
3	BLUE
4	BLACK

5 POLE



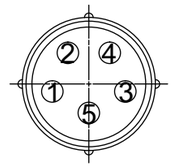
Pin	Wire color
1	BROWN
2	WHITE
3	BLUE
4	BLACK
5	GREY

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

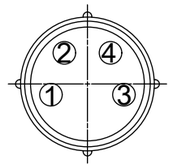
M8 MALE
FACE VIEW

5 POLE



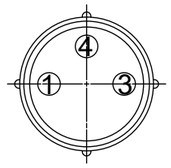
Pin	Wire color
1	BROWN
2	WHITE
3	BLUE
4	BLACK
5	GREY

4 POLE



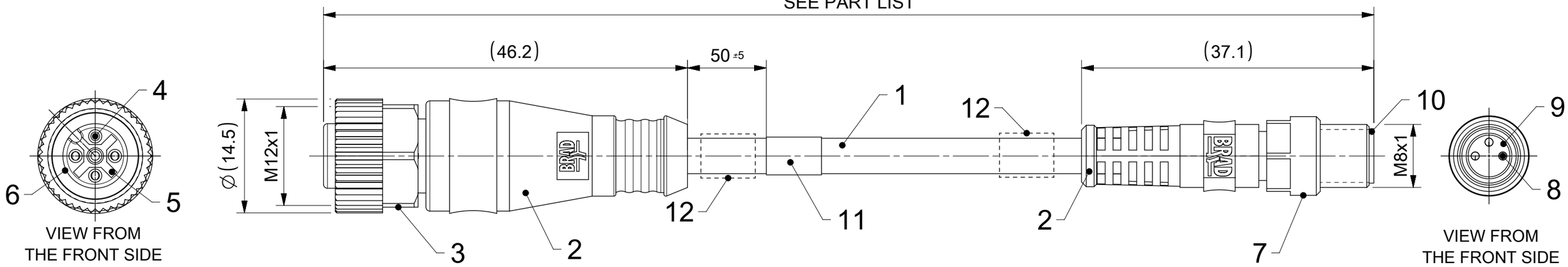
Pin	Wire color
1	BROWN
2	WHITE
3	BLUE
4	BLACK

3 POLE



Pin	Wire color
1	BROWN
3	BLUE
4	BLACK

L+Tol. (mm)
SEE PART LIST



BOM

ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH/COLOR
1	-	CABLE Xx0.25mm²	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

NOTE:

1. LOGO BRAD- ONLY IN ONE SIDE ON THE OVERMOULD.
2. IF IN MATRIX IS "H" - ID CARRIER ON THE BOTH SIDES CONNECTOR.

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

FUNCTIONAL SYMBOLS: FA = 0, FC = 0, FP = 0
DIVISIONAL SYMBOLS

DIMENSION UNITS	SCALE
mm	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

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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

EC NO: 789428
DRWN: AKABADI 2023/08/03
CHK'D: RSILLER 2024/07/02
APPR: RSILLER 2024/07/02

INITIAL REVISION:
DRWN: SSM 2021/12/06
APPR: RSILLER 2022/02/28

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 120066

molex

CSE M12 M8 XP AC FE STR WSOR MA STR XM DE

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1200669234	PSD	000	B

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE PART LIST	GENERAL MARKET	1 OF 2

FORMAT: master_05-A3
REVISION: J1
DATE: 2021/05/06

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

For Raw Cable Specification see SD-120209-006

CABLE TYPE	WIRE GAUGE	CABLE JACKET	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

PART LIST

MOLEX PN	ENGINEERING No	L [mm]
3P CABLE B41		
1200669722	843030B41M005	500
1200669234	843030B41M005H	500
1200669729	843030B41M006	600
1200669723	843030B41M010	1000
1200669235	843030B41M010H	1000
1200669872	843030B41M015	1500
1200669724	843030B41M020	2000
1200669236	843030B41M020H	2000
1200669873	843030B41M025	2500
1200669725	843030B41M030	3000
1200669237	843030B41M030H	3000
1200669726	843030B41M050	5000
1200669238	843030B41M050H	5000
1200669747	843030B41M060	6000
1200669727	843030B41M100	10000
1200669239	843030B41M100H	10000
1200669728	843030B41M150	15000
1200669240	843030B41M150H	15000

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

DOCUMENT STATUS	P1	RELEASE DATE	2024/07/02 09:18:01

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FUNCTIONAL SYMBOLS: FA = 0, FC = 0, FD = 0
DIVISIONAL SYMBOLS

DIMENSION UNITS	SCALE
mm	1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	± 1.0 °
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.05
1 PLACE	± 0.3
0 PLACES	± 0.5

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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

EC NO: 789428
DRWN: AKABADI 2023/08/03
CHK'D: RSILLER 2024/07/02
APPR: RSILLER 2024/07/02

INITIAL REVISION:
DRWN: SSM 2021/12/06
APPR: RSILLER 2022/02/28

molex

CSE M12 M8 XP AC FE STR WSOR MA
STR XM DE

PRODUCT CUSTOMER DRAWING

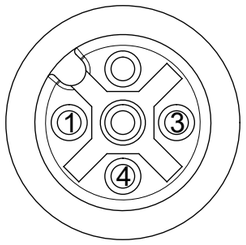
THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	A3-SIZE	120066	SEE PART LIST	GENERAL MARKET	2 OF 2

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1200669234	PSD	000	B

FORMAT: master_B_size-A3
REVISION: J1
DATE: 2021/05/05

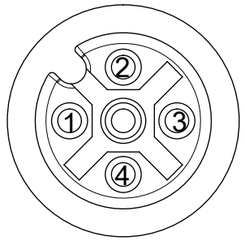
M12 FEMALE
FACE VIEW

3 POLE



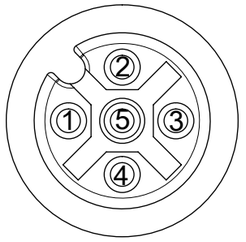
Pin	Wire color
1	BROWN
3	BLUE
4	BLACK

4 POLE



Pin	Wire color
1	BROWN
2	WHITE
3	BLUE
4	BLACK

5 POLE

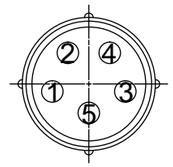


Pin	Wire color
1	BROWN
2	WHITE
3	BLUE
4	BLACK
5	GREY

Temperature Range	-25°C /+80°C
Contact Current Rating	3A
Voltage Rating	3 Poles 60V
	4 & 5 Poles 30V
Protection class	IP 67

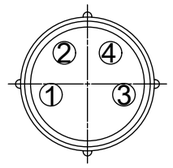
M8 MALE
FACE VIEW

5 POLE



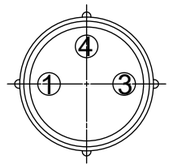
Pin	Wire color
1	BROWN
2	WHITE
3	BLUE
4	BLACK
5	GREY

4 POLE

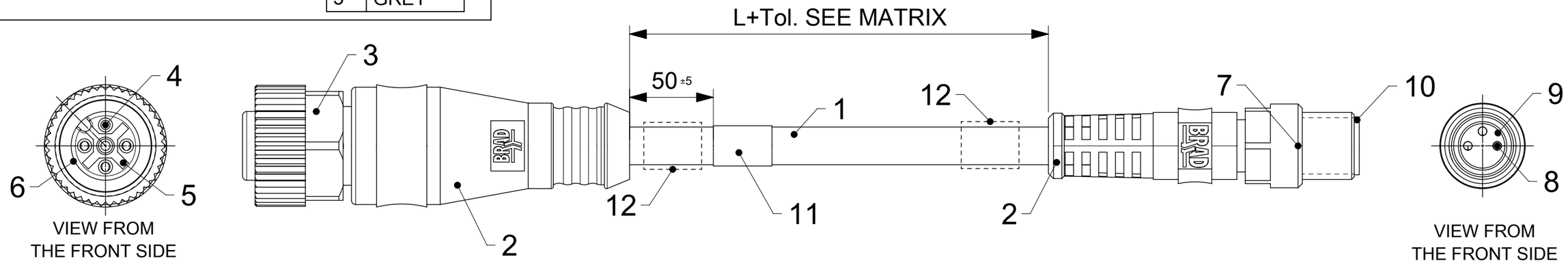


Pin	Wire color
1	BROWN
2	WHITE
3	BLUE
4	BLACK

3 POLE



Pin	Wire color
1	BROWN
3	BLUE
4	BLACK



BOM

ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH
12	2	ID CARRIER (SEE MATRIX)	PVC	-
11	1	STANDARD WRAP LABEL YE	VINYL	-
10	1	M8 MALE SLEEVE	BRASS	Ni-PLATED
9	1	INSERT M8 MALE XP BK	ELASTOLLAN	-
8	X	CONTACT MALE	BRASS	Ni-PLATED
7	1	M8 HEX KNU MALE NUT	BRASS	Ni-PLATED
6	1	GASKET RD	FPM	-
5	1	INSERT M12 FEMALE XP BK	ELASTOLLAN	-
4	X	CONTACT FEMALE	BRASS	Ni-PLATED
3	1	M12 HEX KNU FE NUT	BRASS	Ni-PLATED
2	-	MOULDING MATERIAL BK	TPU	-
1	-	CABLE Xx0.25mm² BK	TPU	-

NOTE:

1. LOGO BRAD- ONLY IN ONE SIDE ON THE OVERMOULD.
2. IF IN MATRIX IS "H" - ID CARRIER ON THE BOTH SIDES CONNECTOR.

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FUNCTIONAL SYMBOLS: FA = 0; FC = 0; FP = 0

DIVISIONAL SYMBOLS

DIMENSION UNITS: mm | SCALE: 2:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ± °

4 PLACES ±

3 PLACES ±

2 PLACES ±

1 PLACE ±

0 PLACES ±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: PART LIST DELETED

EC NO: 683109

DRWN: MKOWALCZYK01 2021/10/19

CHK'D: ALEKSP3 2021/10/28

APPR: KMARCINIAK01 2021/11/02

INITIAL REVISION:

DRWN: AKONDRACIUK 2016/06/06

APPR: MIWASIECZKO 2016/06/21

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 120066

molex

CSE M12 3P AC FE STR WSOR MA STR XM

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1200669234	PSD	00P	A4

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE SHEET 2	GENERAL MARKET	1 OF 2

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

FORMAT: master-lb-prod-A3
REVISION: J
DATE: 2020/01/14

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

8	4	X	0	3	0	B	4	1	M	*	*	*	H
													OPTIONS

- 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

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FUNCTIONAL SYMBOLS: FA = 0, FC = 0, FD = 0

DIVISIONAL SYMBOLS

DIMENSION UNITS: mm | SCALE: 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

CURRENT REV DESC: PART LIST DELETED

EC NO: 683109
DRWN: MKOWALCZYK01 2021/10/19
CHK'D: ALEKSP3 2021/10/28
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THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 120066

molex

CSE M12 3P AC FE STR WSOR MA STR XM

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1200669234	PSD	00P	A4

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE MATRIX	GENERAL MARKET	2 OF 2

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

FORMAT: master-lb-prod-A3
REVISION: J
DATE: 2020/01/14