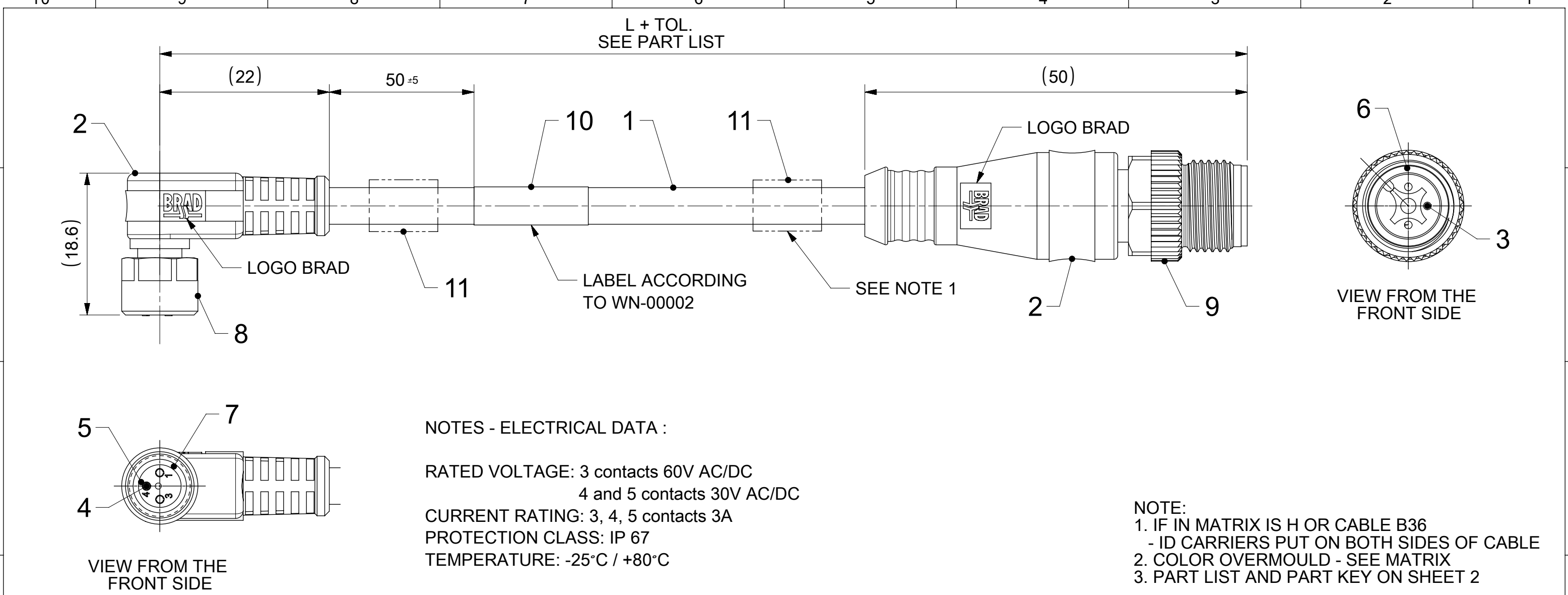


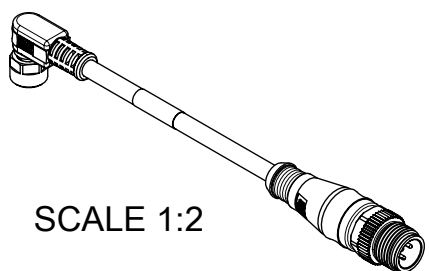


CONTACTS POSITION FRONT VIEW:

	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

DOCUMENT STATUS	P1	RELEASE DATE	2024/07/02	09:17:47
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BOM

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

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". SORTED PART LIST USING CABLE TYPES ON SHEET 2			molex					
	mm		2:1										
	GENERAL TOLERANCES (UNLESS SPECIFIED)				CSE M8 M12 3P AC FE RA WSOR MA STR XM DE								
	ANGULAR TOL ± 1.0 °												
	4 PLACES		±		EC NO: 789428		PRODUCT CUSTOMER DRAWING						
	3 PLACES		±		DRWN: AKABADI 2023/10/04								
	2 PLACES		± 0.05		CHK'D: RSILLER 2024/07/02								
	1 PLACE		± 0.3		APPR: RSILLER 2024/07/02		DOCUMENT NUMBER 1200878800						
	0 PLACES		± 0.5		INITIAL REVISION: DRWN: SSM 2020/12/09 APPR: RSILLER 2021/01/18						DOC TYPE PSD		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING A3-SIZE		SERIES 120087		MATERIAL NUMBER SEE SHEET 2		CUSTOMER GENERAL MARKET		SHEET NUMBER 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

MOLEX PN	ENGINEERING NO	L [mm]
3P CABLE B41		
1200878799	483031B41M006	600
1200878800	483031B41M010	1000
1200878801	483031B41M020	2000
1200878802	483031B41M030	3000
1200878803	483031B41M050	5000
1200878804	483031B41M100	10000
4P CABLE B41		
1200878787	484031B41M006	600
1200878788	484031B41M010	1000
1200878789	484031B41M020	2000
1200878790	484031B41M030	3000
1200878791	484031B41M050	5000
1200878792	484031B41M100	10000

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 FA= 0 FE= 0 FE= 0 DIVISIONAL 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". SORTED PART LIST USING CABLE TYPES ON SHEET 2					moLEX CSE M8 M12 3P AC FE RA WSOR MA STR XM DE									
	mm		1:1																
	GENERAL TOLERANCES (UNLESS SPECIFIED)																		
	ANGULAR TOL ± 1.0 °																		
	4 PLACES		±		EC NO: 789428														
	3 PLACES		±		DRWN: AKABADI					2023/10/04									
	2 PLACES		± 0.05		CHK'D: RSILLER					2024/07/02									
	1 PLACE		± 0.3		APPR: RSILLER					2024/07/02									
	0 PLACES		± 0.5		INITIAL REVISION:														
1 PLACE		± 0.3		DRWN: SSM					2020/12/09										
0 PLACES		± 0.5		APPR: RSILLER					2021/01/18										
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					THIRD ANGLE PROJECTION					DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
										A3-SIZE		120087		SEE PART LIST		GENERAL MARKET		2 OF 2	

10

9

8

7

6

5

4

3

2

1

3 POLES

4 POLES

5 POLES

FEMALE M8 MALE M12

1

2

3

4

5

VIEWS FROM THE WIRES SIDE

VIEWS FROM THE WIRES SIDE

VIEWS FROM THE WIRES SIDE

Pin	Wire color
1	BROWN
2	-
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	GRAY

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

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

Technical drawing of a cable assembly. The main view shows a cable of length $L + Tol. - SEE SHEET 2$ with a diameter of 50 ± 5 mm. Callouts include: 1 (cable body), 2 (coupling nut), 3 (insert), 4 (contact), 5 (coupling nut), 6 (insert), 7 (cable body), 8 (cable body), 9 (coupling nut), 10 (insert), 11 (coupling nut). A note indicates "2 x I/D Carrier if in MATRIX is H".

VIEW FROM THE FRONT SIDE

VIEW FROM THE FRONT SIDE

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:AKONDRACIU K 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 DATE
AKONDRACIU K 2015/09/18
CHECKED BY DATE
MMAJGAT 2015/10/07
APPROVED BY DATE
MIWASIECZKO 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
DOCUMENT NO.
SD-120087-057
SHEET NO.
1 OF 2

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX
INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

Id_frame_A3_P_ME_T
Rev E1 2012/01/25

F

E

D

C

B

A

F

E

D

C

B

A

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
1200878800	483031B41M010	1000
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:AKONDRACIU K 2015/10/20 CHKD:MMAJGAT 2015/10/20 APPR:MIWASIECZKO 2015/11/03 A1	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION			
						DRAWN BY AKONDRACIU K	DATE 2015/10/20	TITLE CSE M8 M12 XP AC FE MA TPU XM DE					
						CHECKED BY MMAJGAT	DATE 2015/10/20						
						APPROVED BY MIWASIECZKO	DATE 2015/11/03						
						MATERIAL NO.					DOCUMENT NO.	SHEET NO.	
						SEE TABLE 1					SD-120087-057		2 OF 2
						SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						