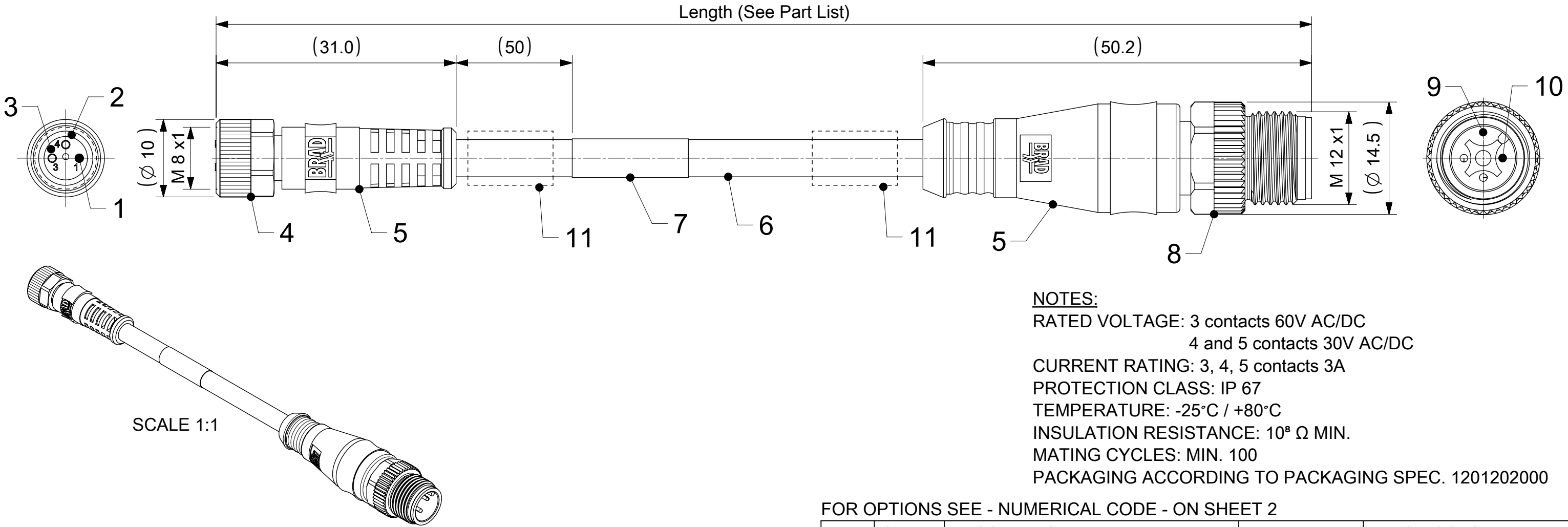


FEMALE PLUG M8 STRAIGHT TO MALE PLUG M12 STRAIGHT WSOR CABLES



NOTES:
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
INSULATION RESISTANCE: 10⁸ Ω MIN.
MATING CYCLES: MIN. 100
PACKAGING ACCORDING TO PACKAGING SPEC. 1201202000

FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH/COLOR
1	3 / 4 / 5	CONTACT M8 FEMALE	BRONZE	SELECTIVE Au OVER Ni
2	1	O-RING	FKM	RED
3	1	INSERT FEMALE M8	TPU	BLACK
4	1	COUPLING NUT M8 FEMALE SW9	BRASS	SEE MATRIX
5	-	OVERMOULDING	TPU	SEE MATRIX
6	-	CABLE	SEE SHEET 2	---
7	1	LABEL	VINYL	YELLOW
8	1	COUPLING NUT M12 MALE SW13	BRASS	SEE MATRIX
9	1	INSERT MALE M12	TPU	BLACK
10	3 / 4 / 5	CONTACT M8 MALE	BRONZE	SELECTIVE Au OVER Ni
11	0 / 2	ID CARRIER (SEE MATRIX)	PVC	TRANSPARENT

CONTACTS POSITION FRONT VIEW:						
M8 - FEMALE	3 CONTACTS		4 CONTACTS		5 CONTACTS	
M12 - MALE	3 CONTACTS		4 CONTACTS		5 CONTACTS	
CONNECTIONS	PIN	WIRE	PIN	WIRE	PIN	WIRE
	1	BROWN	1	BROWN	1	BROWN
	3	BLUE	2	WHITE	2	WHITE
	4	BLACK	3	BLUE	3	BLUE
			4	BLACK	4	BLACK
					5	GREY
CODING M8 ACCORDING TO IEC 61076-2-104 CODING M12 ACCORDING TO IEC IEC 61076-2-101						

FUNCTIONAL SYMBOLS

$\nabla A = 0$

$\nabla E = 0$

$\nabla F = 0$

DIVISIONAL SYMBOLS

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

DIMENSION UNITS

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

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 NOTES ON PACKAGING SPEC. INSULATION RESISTANCE & MATING CYCLES. SORTED PART LIST USING CABLE TYPES ON SHEET 3,

EC NO: 789428
DRWN: AKABADI 2023/09/29
CHK'D: RSILLER 2024/07/02
APPR: RSILLER 2024/07/02

INITIAL REVISION:
DRWN: JMARSZALEK 2016/09/14
APPR: MIWASIECZKO 2017/11/28

THIRD ANGLE PROJECTION

DRAWING

SERIES

A3-SIZE

120087

molex

CSE M8 M12 XP ACBC FE STR WSOR MA STR XM

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER

1200878806

DOC TYPE

PSD

DOC PART

000

REVISION

B

MATERIAL NUMBER

SEE PART LIST

CUSTOMER

GENERAL MARKET

SHEET NUMBER

1 OF 3

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

OPTIONS

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

48=Nano-Change
M8x1 to
Micro-Change
M12x1

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

Heads style: 030=Plug Female Straight to Plug Male Straight

Cable type: See Table

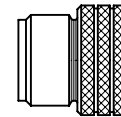
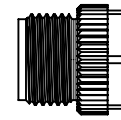
Units:
M=Meter

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

Overmold color:
Blank (Standard)=Black
Y = YELLOW

Coupling Nut:
Blank (Standard)= Knurled/Hex
Brass, Ni Plated
7= Knurled Brass Ni plated, —
Teflon Coated

H= 2 pcs. of
I/D Carrier PVC Transparent
(Cables B36 always with 2 pcs,
I/D Carrier)



CABLE INFORMATION (for more information see Cable Data Sheet).

CABLE TYPE	NO. OF WIRES	CROSS SECTION	CABLE JACKET	UL	CSA	STATIC: TEMP. / BENDING RADIUS	DYNAMIC: TEMP. / BENDING RADIUS	DRAG CHAIN: TEMP. / BENDING RADIUS	DRAG CHAIN	CABLE PRODUCT SPECIFICATION	CABLE SPEC. DRAWING
B41	3 / 4 / 5	0.25mm²	TPU Black	UL 21215/758	C22.2 I/II A/B 80°/600V	-40°C to +90°C >5xO.D.	-25°C to +80°C >7.5xO.D.	-5°C to +60°C >7.5xO.D.	up to 5 000 000 cycles at temp 20°C	1552200001	SD-120209-006
B55	3 / 4	0.34mm²	TPU Yellow								n/a
B36	3/4	0.34mm²	TPU Orange								SD-120209-001

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	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 NOTES ON PACKAGING SPEC., INSULATION RESISTANCE & MATING CYCLES. SORTED PART LIST USING CABLE TYPES ON SHEET 3.			molex CSE M8 M12 XP ACBC FE STR WSOR MA STR XM					
	mm		2:1										
	GENERAL TOLERANCES (UNLESS SPECIFIED)												
FA=0													
FE=0													
FE=0	ANGULAR TOL ± 1.0°												
DIVISIONAL SYMBOLS	4 PLACES		±		EC NO: 789428								
	3 PLACES		±		DRWN: AKABADI 2023/09/29								
	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: DRWN: JMARZALEK 2016/11/28 APPR: MIWASIECZKO								
	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 3	

DOCUMENT STATUS	P1	RELEASE DATE	2024/07/02	09:16:47
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PART LIST

MOLEX PN	ENGINEERING No	L [mm]
3P CABLE B36		
1200878959	483030B36M0037Y	300
4P CABLE B36		
1200878960	484030B36M0037Y	300
3P CABLE B41		
1200878805	483030B41M006	600
1200878938	483030B41M006H	600
1200878806	483030B41M010	1000
1200878939	483030B41M010H	1000
1200878807	483030B41M020	2000
1200878940	483030B41M020H	2000
1200878784	483030B41M030	3000
1200878929	483030B41M030H	3000
1200878785	483030B41M050	5000
1200878930	483030B41M050H	5000
1200878786	483030B41M100	10000
1200878931	483030B41M100H	10000
1200878958	483030B41M150	15000
4P CABLE B41		
1200878793	484030B41M006	600
1200878932	484030B41M006H	600
1200878794	484030B41M010	1000
1200878933	484030B41M010H	1000
1200878795	484030B41M020	2000
1200878934	484030B41M020H	2000
1200878796	484030B41M030	3000
1200878935	484030B41M030H	3000
1200878926	484030B41M040	4000
1200878797	484030B41M050	5000
1200878936	484030B41M050H	5000
1200878798	484030B41M100	10000
1200878937	484030B41M100H	10000
5P CABLE B41		
1200878966	485030B41M005	500
1200878967	485030B41M010	1000
1200878968	485030B41M015	1500
1200878969	485030B41M020	2000
1200878970	485030B41M025	2500

MOLEX PN	ENGINEERING No	L [mm]
3P CABLE B55		
1200878922	483030B55M050	5000

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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 NOTES ON PACKAGING SPEC , INSULATION RESISTANCE & MATING CYCLES. SORTED PART LIST USING CABLE TYPES ON SHEET 3, EC NO: 789428 DRWN: AKABADI2023/09/29 CHK'D: RSILLER2024/07/02 APPR: RSILLER2024/07/02 INITIAL REVISION: DRWN: JMARSZALEK2016/09/14 APPR: MIWASIECZKO2017/11/28					
	mm		2:1							
	GENERAL TOLERANCES (UNLESS SPECIFIED)									
	ANGULAR TOL ± 1.0 °									
	FA=0	±				CSE M8 M12 XP ACBC FE STR WSOR MA STR XM PRODUCT CUSTOMER DRAWING DOCUMENT NUMBER1200878806DOC TYPEPSDDOC PART000REVISIONB MATERIAL NUMBERCUSTOMERSHEET NUMBERSEE PART LISTGENERAL MARKET3 OF 3				
	FE=0	±								
	FF=0	± 0.05								
	DIVISIONAL SYMBOLS	4 PLACES								
		3 PLACES								
		2 PLACES								
	1 PLACE		± 0.3							
	0 PLACES		± 0.5							
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		
						A3-SIZE		120087		

10

9

8

7

6

5

4

3

2

1

3 POLES

4 POLES

5 POLES

FEMALE M8 MALE M12

1

2

3

4

1

2

3

4

1

2

3

4

5

VIEW FROM THE WIRES SIDE

VIEW FROM THE WIRES SIDE

VIEW 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

0

B

*

*

M

*

*

*

*

*

48 = M8x1 M12x1

Poles:

3 = 3 POLES

4 = 4 POLES

5 = 5 POLES

Header:

030 = FEMALE STRAIGHT - 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

VIEW FROM THE FRONT SIDE

2

4

5

VIEW FROM THE FRONT SIDE

1

3

6

7

8

9

10

11

L + Tol. - SEE MATRIX

50±5

2 x I/D Carrier if in MATRIX is H

Bill of Materials

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
ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH

ADDED TABLE WITH PN

SEE SHEET 2

EC NO: IPG2016-0473

DRWN:AKONDRACIU K 2015/10/07

CHKD:MMAJGAT 2015/10/07

APPR:MIWASIECZKO 2015/11/03

A1

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

AKONDRACIU K

DATE

2015/09/15

CHECKED BY

MMAJGAT

DATE

2015/09/15

APPROVED BY

MIWASIECZKO

DATE

2015/09/29

MATERIAL NO.

SEE TABLE 1

SIZE

A3

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX

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SCALE

DESIGN UNITS

METRIC

THIRD ANGLE PROJECTION

TITLE

CSE M8 M12 XP AC FE MA

TPU XM DE

DOCUMENT NO.

SD-120087-058

SHEET NO.

1 OF 2

Id_frame_A3_P_ME_T
Rev E1 2012/01/25

TABLE 1

MOLEX PN	ENGINEERING No	L [mm]
1200878784	483030B41M030	3000
1200878785	483030B41M050	5000
1200878786	483030B41M100	10000
1200878793	484030B41M006	600
1200878794	484030B41M010	1000
1200878795	484030B41M020	2000
1200878796	484030B41M030	3000
1200878797	484030B41M050	5000
1200878798	484030B41M100	10000
1200878805	483030B41M006	600
1200878806	483030B41M010	1000
1200878807	483030B41M020	2000

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

DESCRIPTION
REV

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 2015/10/20
CHECKED BY DATE
MMAJGAT 2015/10/20
APPROVED BY DATE
MIWASIECZKO 2015/11/03
MATERIAL NO.
SIZE
A3

SCALE

DESIGN UNITS
METRIC

THIRD ANGLE PROJECTION

TITLE
CSE M8 M12 XP AC FE MA
TPU XM DE

molex

SD-120087-058

DOCUMENT NO.
SHEET NO.
2 OF 2

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Id_frame_A3_P_ME_T
Rev E1 2012/01/25

9

8

7

6

5

4

3

2

1