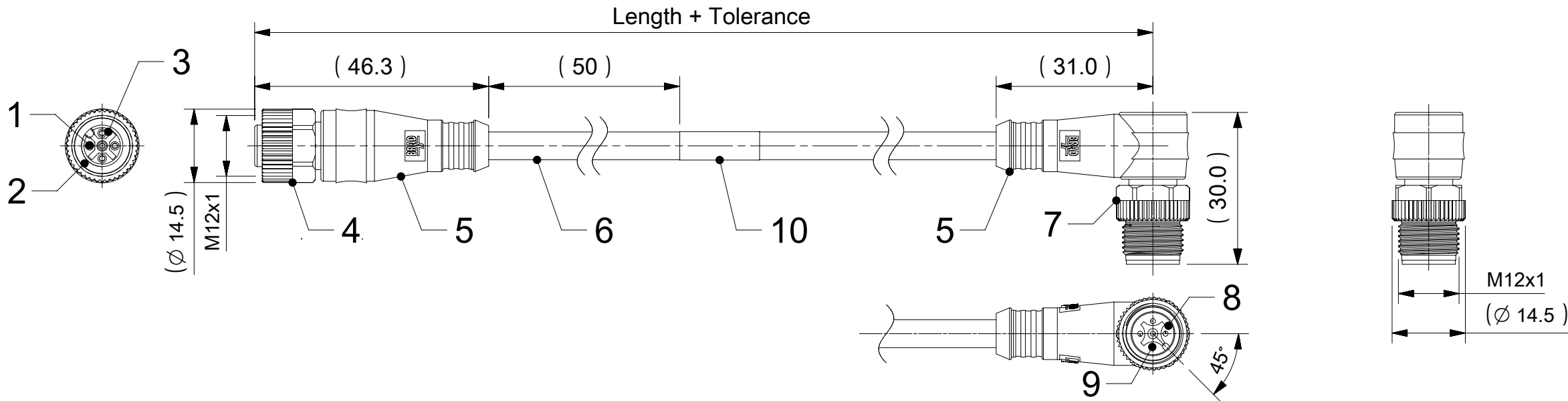


FEMALE PLUG M12 STRAIGHT TO MALE PLUG M12 90° ANGLED



NOTES:

RATED VOLTAGE: 3, 4 contacts 250V

5 contacts 60V

8 contacts 30V

RATED CURRENT: 3, 4, 5 contacts 4A

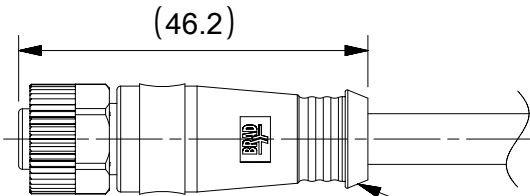
8 contacts 2A

PROTECTION CLASS: IP67 IN MATED AND LOCKED POSITION

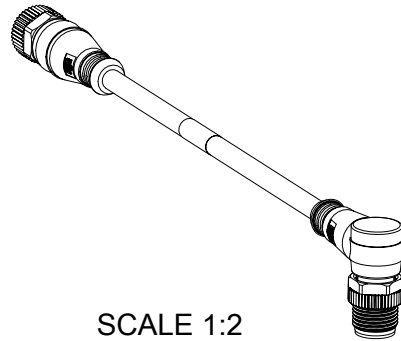
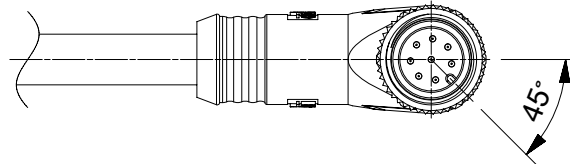
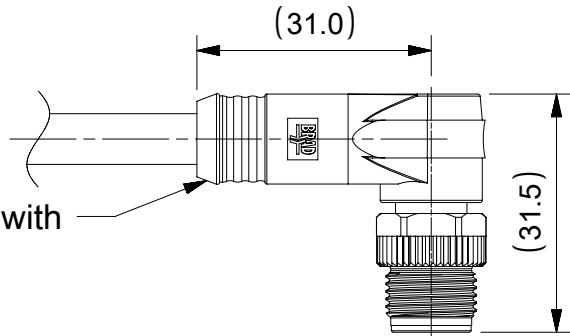
TEMPERATURE: -25°C / +85°C

INSULATION RESISTANCE: 10⁸ Ω MIN.

MATING CYCLES: MIN. 100



Thicker Overmold for Cables with bigger Outer Diameter



CONTACTS POSITION FRONT VIEW:

CABLE	3 CONTACTS		4 CONTACTS		5 CONTACTS		5 CONTACTS		8 CONTACTS	
	B30, B55		B30, B33, B36, B55		B30, B33, B36, B55		B42		B41, B49	
FEMALE										
MALE										
CONNECTIONS	PIN	WIRE	PIN	WIRE	PIN	WIRE	PIN	WIRE	PIN	WIRE
	1	BROWN	1	BROWN	1	BROWN	1	BROWN	1	WHITE
	2	---	2	WHITE	2	WHITE	2	WHITE	2	BROWN
	3	BLUE	3	BLUE	3	BLUE	3	BLUE	3	GREEN
	4	BLACK	4	BLACK	4	BLACK	4	BLACK	4	YELLOW
	5	---	5	---	5	GREY	5	GREEN/YELLOW	5	GREY
									6	PINK
									7	BLUE
									8	RED

CODING REQUIRED TO IEC 61076-2-101

FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

11	SEE PN MATRIX	I/D CARRIER	PVC	TRANSPARENT
10	1	LABEL YELLOW	VINYL	---
9	8	CONTACT M12 MALE	BRASS	SELECTIVE GOLD
	3 / 4 / 5		COPPER	OVER NICKEL
8	1	INSERT MALE BLACK	TPU	---
7	1	COUPLING NUT MALE SW13	BRASS	NICKEL
6	-	CABLE	SEE SHEET 2	---
5	-	OVERMOULDING BLACK	TPU	---
4	1	COUPLING NUT FEMALE SW13	BRASS	NICKEL
3	1	INSERT FEMALE BLACK	TPU	---
2	1	ORING RED	FPM	---
1	8	CONTACT M12 FEMALE	BRASS	SELECTIVE GOLD
	3 / 4 / 5		BRONZE	OVER NICKEL
ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH

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: CHANGED DIMENSIONINGSTYLE OF OVERALL LENGTH TO END TO END. UPDATED NOTES AND SORTED PART LIST USING CABLE TYPES ON SHEET 3. ADDED B41 P/N'S.						molex	
mm		1:1									
GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 789428 DRWN: AKABADI 2023/03/11 CHK'D: RSILLER 2024/07/02 APPR: RSILLER 2024/07/02							
ANGULAR TOL ± 1.0 °											
4 PLACES		±		PRODUCT CUSTOMER DRAWING							
3 PLACES		±									
2 PLACES		± 0.05		DOCUMENT NUMBER 1200668920							
1 PLACE		± 0.3									
0 PLACES		± 0.5		DOC TYPE PSD		DOC PART 000		REVISION B			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER	
						A3-SIZE		120066		SEE PART LIST	
								CUSTOMER		SHEET NUMBER	
								GENERAL MARKET		1 OF 3	

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

88X032XXXXXX

88=M12x1
Double ended

Poles:
3=3 Contacts
4=4 Contacts
5=5 Contacts
8=8 Contacts

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

Cable type: See Table

Units:
M=Meter
C=Centimeter

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

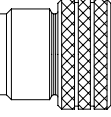
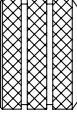
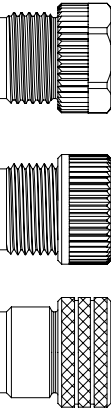
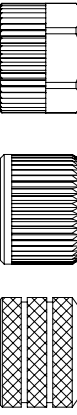
Overmold color:
Blank (Standard)=Black
A=Grey / G=Black / Y=Yellow / R=Red

Coupling Nut:
Blank (Standard)=Knurled/Hex Brass, Ni Plated
5=Knurled Derlin
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)

COUPLING NUT

FEMALEMALE



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
B30	3 / 4 / 5	0.34mm²	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-120209-001
B33	4 / 5	0.34mm²	TPU Gray								SD-120209-001
B36	4 / 5	0.34mm²	TPU Orange								SD-120209-001
B41	8	0.25mm²	TPU Black								SD-120209-006
B42	5	0.34mm²	TPU Black								SD-120209-001
B49	8	0.25mm²	TPU Orange								SD-120209-006
B55	3 / 4 / 5	0.34mm²	TPU Yellow								n/a

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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DIMENSION UNITS

mm

SCALE

1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ± 1.0 °

4 PLACES ±

3 PLACES ±

2 PLACES ± 0.05

1 PLACE ± 0.3

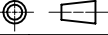
0 PLACES ± 0.5

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: CHANGED DIMENSIONINGSTYLE OF OVERALL LENGTH TO END TO END. UPDATED NOTES AND SORTED PART LIST USING CABLE TYPES ON SHEET 3. ADDED B41 P/N'S.

EC NO: 789428
DRWN: AKABADI 2023/03/11
CHK'D: RSILLER 2024/07/02
APPR: RSILLER 2024/07/02

INITIAL REVISION:
DRWN: JMARSZALEK 2016/10/17
APPR: RSILLER 2016/10/18

THIRD ANGLE PROJECTION


DRAWING
A3-SIZE

SERIES
120066

MATERIAL NUMBER
SEE PART LIST

CUSTOMER
GENERAL MARKET

SHEET NUMBER
2 OF 3



CSE M12 XP AC FE RA WSOR MA RA XM DE

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER
1200668920

DOC TYPE
PSD

DOC PART
000

REVISION
B

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PART LIST														
MOLEX PNENGINEERING NoL [mm]			MOLEX PNENGINEERING NoL [mm]			MOLEX PNENGINEERING NoL [mm]								
3P CABLE B30			4P CABLE B36			5P CABLE B42								
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1200668919	883032B30M010	1000	1200669076	884032B36M0107Y	1000	1200668931	885032B42M010	1000						
1200668920	883032B30M020	2000	1200669077	884032B36M0157Y	1500	1200668932	885032B42M020	2000						
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1200668922	883032B30M050	5000	1200669079	884032B36M0307Y	3000	1200668934	885032B42M050	5000						
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4P CABLE B30			1200669081			4P CABLE B55								
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1200668926	884032B30M020	2000	1200669084			1200669638	884032B55M030Y	3000						
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1200669634	884032B30M150	15000	1200669088			1200669642	884032B55M200Y	20000						
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1200669006	885032B30M030	3000	1200669093			1200669699	885032B55M100Y	10000						
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1200669693	885032B30M150	15000	1200669096											
1200669694	885032B30M200	20000	1200669097											
4P CABLE B33			1200669098											
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1200669632	884032B33M150A	15000												
1200669633	884032B33M200A	20000												
5P CABLE B33														
1200669912	885032B33M005A	500												
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