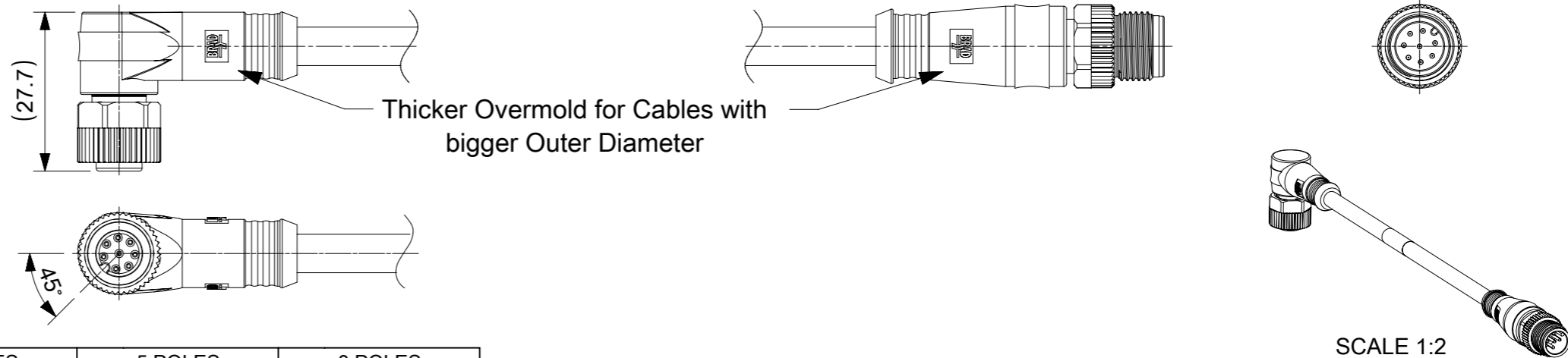


# FEMALE PLUG M12 90° ANGLED TO MALE PLUG M12 STRAIGHT



**NOTES:**  
 CONTACT CURRENT RATING: 3-5 POLES 4A  
 8 POLES 2A  
 VOLTAGE RATING: 3-4 POLES 250V  
 5 POLES 60V  
 8 POLES 30V  
 PROTECTION CLASS: IP 67  
 TEMPERATURE: -25°C / +85°C



**CONTACT POSITION FRONT VIEW:**

CABLE	3 POLES B30, B55	4 POLES B30, B33, B36, B55	5 POLES B30, B33, B36, B55	5 POLES B42	8 POLES B41, B49				
<b>FEMALE</b>									
<b>MALE</b>									
<b>CONNECTIONS</b>	PIN	1	1	1	1	1	1	1	1
	WIRE	BROWN	BROWN	BROWN	BROWN	WHITE	BROWN	BROWN	BROWN
		---	WHITE	WHITE	WHITE	BROWN	---	---	---
		BLUE	BLUE	BLUE	BLUE	GREEN	---	---	---
		BLACK	BLACK	BLACK	BLACK	YELLOW	---	---	---
		---	---	GREY	GREEN/ YELLOW	GREY	---	---	---
						PINK	---	---	---
						BLUE	---	---	---
					RED	---	---	---	

CODING REQUIRED TO IEC 61076-2-101

**FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2**

ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH
10	1	LABEL OR PRINTING	VINYL / ---	---
9	3 / 4 / 5	CONTACT M12 MALE	COPPER	SELECTIVE GOLD OVER NICKEL
	8		BRASS	SELECTIVE GOLD OVER NICKEL
8	1	INSERT MALE BLACK	TPU	---
7	1	COUPLING NUT MALE	SEE SHEET 2	SEE SHEET 2
6	-	CABLE	SEE SHEET 2	---
5	-	OVERMOULDING	TPU	SEE SHEET 2
4	1	COUPLING NUT FEMALE	SEE SHEET 2	SEE SHEET 2
3	1	INSERT FEMALE BLACK	PUR	---
1	3 / 4 / 5	CONTACT M12 FEMALE	BRONZE	SELECTIVE GOLD OVER NICKEL
	8		BRASS	SELECTIVE GOLD OVER NICKEL

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

FUNCTIONAL SYMBOLS:  $\nabla/A = 0$ ,  $\nabla/E = 0$ ,  $\nabla/F = 0$

DIVISIONAL SYMBOLS: 4 PLACES ±, 3 PLACES ±, 2 PLACES ±, 1 PLACE ±, 0 PLACES ±

EC NO: 730623  
 DRWN: RSCHIEBER  
 CHK'D: RSILLER  
 APPR: RSILLER

INITIAL REVISION:  
 DRWN: JMARSZALEK  
 APPR: RSILLER

DATE: 2022/11/21  
 DATE: 2022/12/01  
 DATE: 2016/08/12  
 DATE: 2016/08/29

THIRD ANGLE PROJECTION

DRAWING: A3-SIZE  
 SERIES: 120066  
 MATERIAL NUMBER: SEE SHEET 3  
 CUSTOMER: GENERAL MARKET

DOCUMENT NUMBER: 1200668999  
 DOC TYPE: PSD  
 DOC PART: 000  
 REVISION: A8

SHEET NUMBER: 1 OF 3

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

OPTIONS

8 8 X 0 3 1 X X X X X X X X

88=M12x1 Double ended

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

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

Cable type: See Table

Units:  
M=Meter  
C=Centimeter  
T=10x Meter

Length  
Examples:  
005=0.5 units  
010=1 units  
020=1 units  
050=5 units  
100=10 units  
150=15 units  
200=20 units

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 (Cable 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
B30	3 / 4 / 5	0.34mm <sup>2</sup>	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	0.34mm <sup>2</sup>	TPU Gray								SD-120209-001
B36	4 / 5	0.34mm <sup>2</sup>	TPU Orange								SD-120209-001
B41	8	0.25mm <sup>2</sup>	TPU Black								SD-120209-006
B42	5	0.34mm <sup>2</sup>	TPU Black								SD-120209-001
B55	4 / 5	0.34mm <sup>2</sup>	TPU Yellow								n/a

CABLE LENGTH TOLERANCES		
LENGTH	TOLERANCE	
shorter 1m	+40 mm	-0 mm
1m-5m	+60 mm	-0 mm
5m-10m	+80 mm	-0 mm
10m-20m	+140 mm	-0 mm
20m-30m	+160 mm	-0 mm
longer 30m	+1%	-0 mm

FUNCTIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC: NEW P/N ADDED		<b>molex</b>		
	▽A = 0	mm	1:1				
DIVISIONAL SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 730623		CSE M12 XP AC FE RA WSOR MA STR XM DE		
	▽E = 0	ANGULAR TOL ± 1.0°		DRWN: RSCHIEBER 2022/11/21			
DIVISIONAL SYMBOLS	▽F = 0	4 PLACES ±		CHK'D: RSILLER 2022/12/01	PRODUCT CUSTOMER DRAWING		
		3 PLACES ±		APPR: RSILLER 2022/12/01			
		2 PLACES ± 0.05		INITIAL REVISION:			
		1 PLACE ± 0.1		DRWN: JMARSZALEK 2016/08/12			
	0 PLACES ± 0.2		APPR: RSILLER 2016/08/29	DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
			A3-SIZE	120066	1200668999	GENERAL MARKET	2 OF 3

