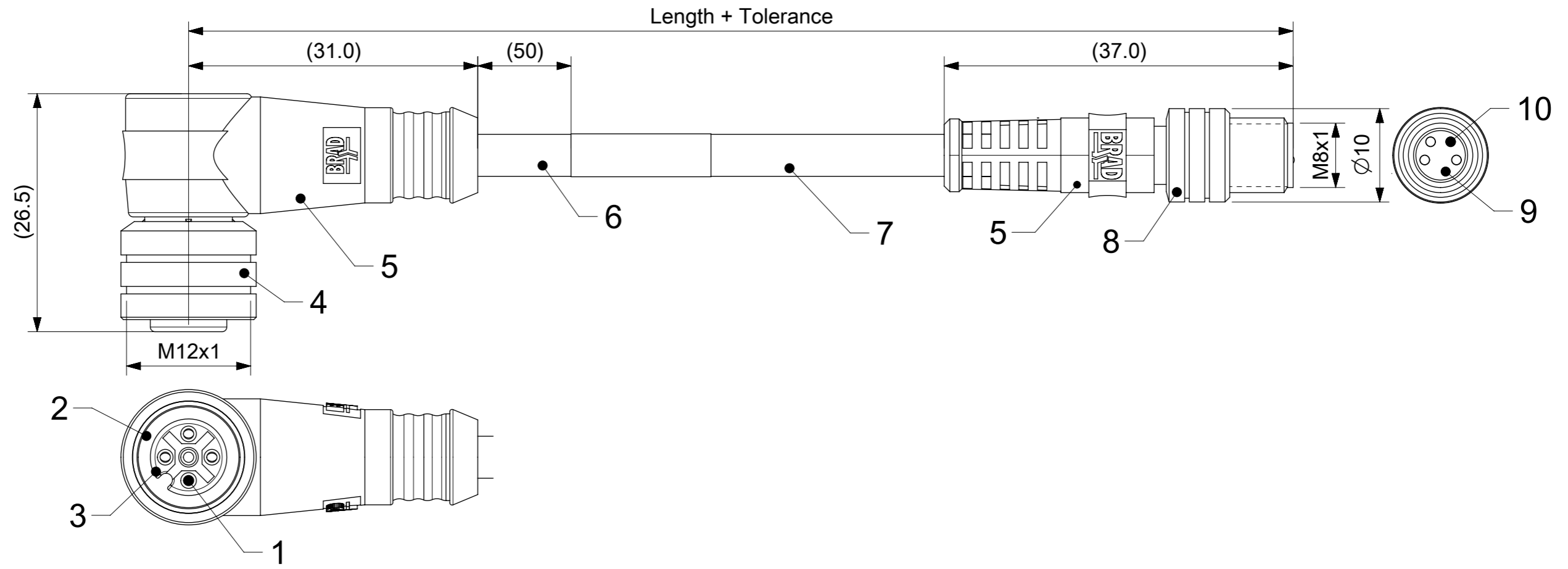


# FEMALE PLUG M12 90° TO MALE PLUG M8 STRAIGHT

REVISION A3 | ENG. NO. CORRECTED



**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

**CONTACTS POSITION FRONT VIEW:**

	3 CONTACTS		4 CONTACTS		5 CONTACTS	
M8 - MALE						
M12 - FEMALE						
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

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

ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH
10	3 / 4 / 5	CONTACT M8 MALE	BRASS	SELECTIVE Au OVER Ni
9	1	INSERT MALE M8 BLACK	TPU	---
8	1	COUPLING NUT M8 MALE	BRASS	NICKEL
7	1	LABEL YELLOW OR PRINTING	---	---
6	-	CABLE	SEE SHEET 2	---
5	-	OVERMOULDING BLACK	TPU	---
4	1	COUPLING NUT M12 FEMALE	BRASS	NICKEL
3	1	INSERT FEMALE M12 BLACK	PUR	---
2	1	GASKET RED	FPM	---
1	3 / 4 / 5	CONTACT M12 FEMALE	BRASS	SELECTIVE Au OVER Ni

FUNCTIONAL SYMBOLS $\sqrt{A} = 0$ $\sqrt{E} = 0$ $\sqrt{F} = 0$	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	SCALE 2:1	 CSE M12 M8 XP AC FE RA X MA STR XM PRODUCT CUSTOMER DRAWING					
	DIMENSION UNITS mm	GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 655756	DOCUMENT NUMBER 1200668434	DOC TYPE PSD
	ANGULAR TOL ± °	4 PLACES ±				DRWN: MKOWALCZYK01 2021/02/16	DOC PART 000	REVISION A3
	3 PLACES ±	2 PLACES ±				CHK'D: ASZELAG 2021/02/16	SHEET NUMBER 1 OF 3	
DIVISIONAL SYMBOLS	1 PLACE ±	0 PLACES ±	INITIAL REVISION: DRWN: AKONDRACIUK 2017/04/20	MATERIAL NUMBER SEE SHEET 3	CUSTOMER GENERAL MARKET			
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIRD ANGLE PROJECTION	DRAWING A3-SIZE	SERIES 120066				

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

OPTIONS

8 4 X 0 3 1 X 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

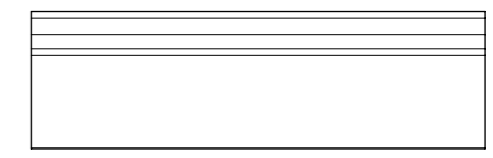
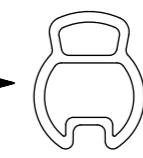
Heads style:  
031=Plug Female 90  
to Plug Male Straight

Cable type: See Table

Units:  
M=Meter

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

Overmold color:  
Blank (Standard)=Black  
  
H= 2 pcs. of  
I/D Carrier PVC Transparent



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	SHIELD
E02	3 / 4 / 5	0.25mm <sup>2</sup>	PVC Black	UL 2464/1729	C22.2 I/II A/B 80°/300V	-30°C to +80°C 10xO.D.	-10°C to +80°C 15xO.D.	-	-
P02	3 / 4 / 5	0.25mm <sup>2</sup>	PUR/PVC BLACK	-	-	-30°C to +80°C 7xO.D.	-5°C to +80°C 15xO.D.	-	-
I02	3 / 4	0.25mm <sup>2</sup>	PVC CEI GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	-
I03	3 / 4 / 5	0.25mm <sup>2</sup>	PVC CEI GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	-
H08	3 / 4 / 5	0.25mm <sup>2</sup>	PUR BLACK	UL 10493/21198	C22.2 I/II A/B 80°C/300V	-40°C to +80°C 5xO.D.	-25°C to +80°C 10xO.D.	+5°C to +60°C 2Mio cycles	

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	<table border="1"> <tr> <th>FUNCTIONAL SYMBOLS</th> <th>DIMENSION UNITS</th> <th>SCALE</th> </tr> <tr> <td><math>\nabla_A = 0</math></td> <td>mm</td> <td>2:1</td> </tr> <tr> <td><math>\nabla_E = 0</math></td> <td colspan="2">GENERAL TOLERANCES (UNLESS SPECIFIED)</td> </tr> <tr> <td><math>\nabla_V = 0</math></td> <td colspan="2">ANGULAR TOL ± °</td> </tr> <tr> <td rowspan="5">DIVISIONAL SYMBOLS</td> <td>4 PLACES</td> <td>±</td> <td rowspan="5">EC NO: 655756 DRWN: MKOWALCZYK01 2021/02/16 CHK'D: ASZELAG 2021/02/16 APPR: DSTACHOWIAK 2021/02/16</td> </tr> <tr> <td>3 PLACES</td> <td>±</td> </tr> <tr> <td>2 PLACES</td> <td>±</td> </tr> <tr> <td>1 PLACE</td> <td>±</td> </tr> <tr> <td>0 PLACES</td> <td>±</td> </tr> </table>	FUNCTIONAL SYMBOLS	DIMENSION UNITS		SCALE	$\nabla_A = 0$	mm	2:1	$\nabla_E = 0$	GENERAL TOLERANCES (UNLESS SPECIFIED)		$\nabla_V = 0$	ANGULAR TOL ± °		DIVISIONAL SYMBOLS	4 PLACES	±	EC NO: 655756 DRWN: MKOWALCZYK01 2021/02/16 CHK'D: ASZELAG 2021/02/16 APPR: DSTACHOWIAK 2021/02/16	3 PLACES	±	2 PLACES	±	1 PLACE	±	0 PLACES	±
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PRODUCT CUSTOMER DRAWING			DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION																				
INITIAL REVISION:			1200668434	PSD	000	A3																				
DRWN: AKONDRACIUK 2017/04/20 APPR: MIWASIECZKO 2017/04/21			SEE SHEET 3	GENERAL MARKET	SHEET NUMBER 2 OF 3																					
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER																				
			A3-SIZE	120066	SEE SHEET 3	GENERAL MARKET																				


# PART LIST

No	Part No	Engineering No	Cable Length [m]	No	Part No	Engineering No	Cable Length
1	1200668229	843031I03M020	2	1	1200668455	843031P02M070	7
2	1200668434	843031E02M005	0.5	2	1200668456	843031P02M100	10
3	1200668436	843031E02M010	1	3	1200668983	843031E02M060H	6
4	1200668437	843031E02M015	1.5	4	1200669435	843031E02M150	15
5	1200668439	843031E02M030	3	5	1200669751	843031H08M035H	3.5
6	1200668441	843031E02M050	5	6			
7	1200668444	843031I02M010	1	7			
8	1200668447	843031I02M050	5	8			
9	1200668450	843031P02M006	0.6	9			
10	1200668451	843031P02M010	1	10			
11	1200668452	843031P02M020	2	11			
12	1200668453	843031P02M030	3	12			
13	1200668454	843031P02M050	5	13			
14	1200668480	843031E02M100	10	14			
15	1200668701	843031E02M003H	0.3	15			
16	1200668702	843031E02M006H	0.6	16			
17	1200668703	843031E02M020H	2	17			
18	1200668704	843031E02M030H	3	18			
19	1200668705	843031E02M050H	5	19			
20	1200668706	843031E02M010H	1	20			
21	1200668969	843031E02M040H	4	21			
22	1200668988	843031E02M015H	1.5	22			
23	1200669106	843031E02M0209H	2	23			
24	1200669107	843031E02M0309H	3	24			
25	1200669108	843031E02M0509H	5	25			
26	1200669232	843031E02M0609H	6	26			
27	1200668435	843031E02M006	0.6	27			
28	1200668438	843031E02M020	2	28			
29	1200668440	843031E02M040	4	29			
30	1200668442	843031E02M060	6	30			
31	1200668443	843031I02M006	0.6	31			
32	1200668445	843031I02M015	1.5	32			
33	1200668446	843031I02M030	3	33			
34	1200668448	843031I02M100	10	34			
35	1200668449	843031I02M150	15	35			

A3

Over	Up to and including	Tolerance
0	305	+19
305	915	+45
915	1830	+56
1830	3660	+89
3660	7320	+165
7320	14640	+317
14640	30500	+610
30500	>	+2% of length

DOCUMENT STATUS	P1	RELEASE DATE	2021/02/16	14:32:48
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DIVISIONAL SYMBOLS	4 PLACES ± 3 PLACES ± 2 PLACES ± 1 PLACE ± 0 PLACES ±		INITIAL REVISION: DRWN: AKONDRACIUK 2017/04/20 APPR: MIWASIECZKO 2017/04/21		PRODUCT CUSTOMER DRAWING
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING: <b>A3-SIZE</b> SERIES: <b>120066</b>	DOCUMENT NUMBER: <b>1200668434</b> DOC TYPE: PSD DOC PART: 000 REVISION: <b>A3</b>
		MATERIAL NUMBER: SEE PART LIST	CUSTOMER: GENERAL MARKET	SHEET NUMBER: 3 OF 3	