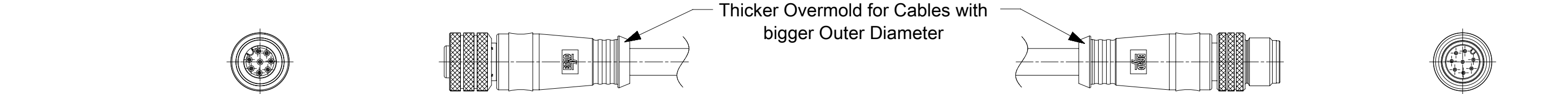
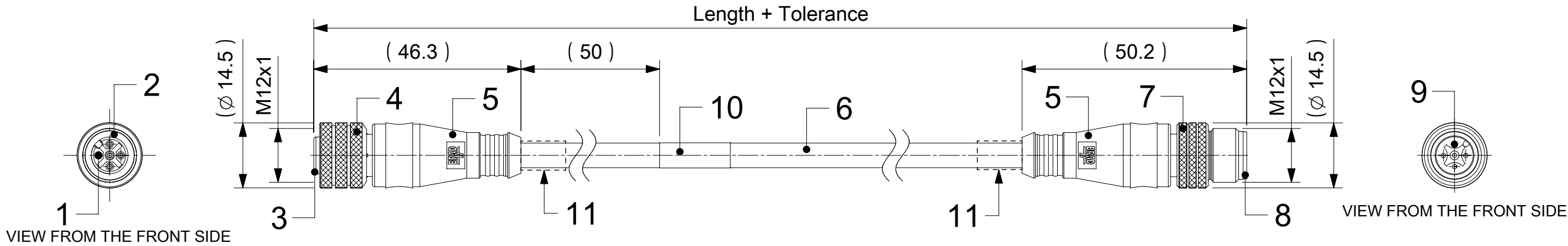


FEMALE PLUG M12 STRAIGHT TO MALE PLUG M12 STRAIGHT



NOTES:

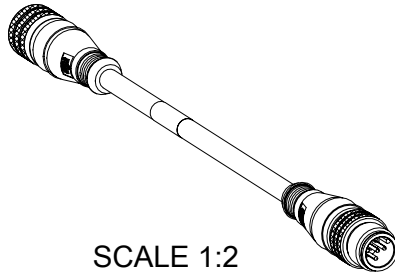
RATED VOLTAGE: 3, 4 contacts 250V per IEC 60664
5 contacts 60V per IEC 60664
5 contacts 250V per UL 2238
8 contacts 30V per IEC 60664

RATED CURRENT: 3, 4, 5 contacts 4A
8 contacts 2A

PROTECTION CLASS: IP 67
TEMPERATURE: -25°C / +85°C

CONTACTS POSITION FRONT VIEW:

	3 CONTACTS		4 CONTACTS		5 CONTACTS		8 CONTACTS	
FEMALE								
MALE								
CONNECTIONS	PIN	WIRE	PIN	WIRE	PIN	WIRE	PIN	WIRE
	1	BROWN	1	BROWN	1	BROWN	1	WHITE
	2	-	2	WHITE	2	WHITE	2	BROWN
	3	BLUE	3	BLUE	3	BLUE	3	GREEN
	4	BLACK	4	BLACK	4	BLACK	4	YELLOW
					5	GREY	5	GREY
							6	PINK
							7	BLUE
CODING REQUIRED TO IEC 61076-2-101								



FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

11	SEE SHEET 2	ID CARRIER	PVC	TRANSPARENT
10	1	LABEL YELLOW	VINYL	-
9	3 / 4 / 5 / 8	CONTACT MALE	SEE PART LIST	SELECTIVE GOLD OVER NICKEL
8	1	INSERT MALE BLACK	TPU	-
7	1	COUPLING NUT MALE	-	-
6	-	CABLE	SEE SHEET 2	-
5	-	OVERMOULDING BLACK	TPU	-
4	1	COUPLING NUT FEMALE	-	-
3	1	INSERT FEMALE BLACK	PUR	-
2	1	O-RING RED	FPM	-
1	3 / 4 / 5 / 8	CONTACT FEMALE	SEE PART LIST	SELECTIVE GOLD OVER NICKEL
ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH

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: NEW P/N'S ADDED TO THE DRAWING 12335						molex					
mm		1:1													
GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 769491 DRWN: VHANDI 2023/10/30 CHK'D: RSILLER 2023/11/21 APPR: RSILLER 2023/11/21 INITIAL REVISION: DRWN: JMARSZALEK 2016/09/16 APPR: RSILLER 2016/12/08						CSE M12 XP AC FE STR MA STR XM DE							
ANGULAR TOL ± 1.0 °															
4 PLACES ±															
3 PLACES ±															
2 PLACES ± 0.05															
1 PLACE ± 0.3								PRODUCT CUSTOMER DRAWING							
0 PLACES ± 0.5								DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION	
DIVISIONAL SYMBOLS								1200668084		PSD		000		A17	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS						MATERIAL NUMBER		CUSTOMER		SHEET NUMBER			
		THIRD ANGLE PROJECTION		DRAWING		SERIES		SEE SHEET 3-4		GENERAL MARKET		1 OF 4			

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

OPTIONS

88X030XXXXXX

88=Micro-Change
M12x1
Double ended

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

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

Cable type: See Table

Units:
M=Meter
C=Centimeter

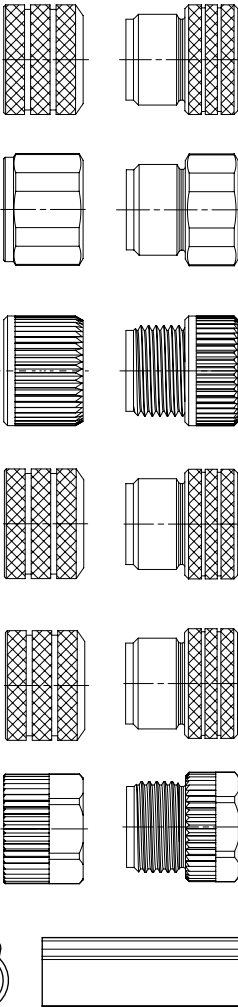
Length
Examples:
005=0.5 unit
010=1 unit
100=10 units

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

Coupling Nut:
Blank (Standard) & 3=Knurled Brass Ni Plated
1=Hexagonal Stainless steel
5=Knurled Derlin
7=Knurled Brass Ni Plated, Teflon Coated
8=Type 316 stainless steel
9=Knurled / Hexagonal Brass Ni Plated SW13

H= 2 pcs. of I/D Carrier PVC Transparent

COUPLING NUTS
FEMALE MALE



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 / 8	0.25mm²	PVC BLACK	UL 2464/1729	C22.2 I/II A/B 80°C/300V	-30°C to +80°C, 10xO.D.	-10°C to +80°C, 15xO.D.	-	-
E03	3 / 4 / 5	0.34mm²	PVC BLACK	UL 2464/1729	C22.2 I/II A/B 80°C/300V	-30°C to +80°C, 10xO.D.	-10°C to +80°C, 15xO.D.	-	-
H08	3 / 4 / 5 / 8	0.25mm²	PUR BLACK LS0H	UL 21198/10493	C22.2 I/II A/B 80°C/300V	-40°C to +80°C, 5xO.D.	-25°C to +80°C, 10xO.D.	2 000 000 cycles at 20°C, Temp. range +5°C to +60°C	-
H09	3 / 4 / 5	0.34mm²	PUR BLACK LS0H	UL 21198/10493	C22.2 I/II A/B 80°C/300V	-40°C to +80°C, 5xO.D.	-25°C to +80°C, 10xO.D.	2 000 000 cycles at 20°C, Temp. range +5°C to +60°C	-
P02	3 / 4 / 5 / 8	0.25mm²	PUR / PVC BLACK	-	-	-30°C to +80°C, 7xO.D.	-5°C to +80°C, 15xO.D.	-	-
P03	3 / 4 / 5	0.34mm²	PUR / PVC BLACK	-	-	-30°C to +80°C, 7xO.D.	-5°C to +80°C, 15xO.D.	-	-

CABLE LENGTH TOLERANCES		
OVER [mm]	UP TO AND INCLUDING [mm]	TOLERANCES [mm]
0	305	+19
305	915	+45
915	1830	+56
1830	3660	+89
3660	7320	+165
7320	14640	+317
14640	30500	+610
30500	>	+2% OF FINISHED 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: NEW P/N'S ADDED TO THE DRAWING 12335							
FA = 0 FE = 0 FF = 0	mm	1:1										
DIVISIONAL SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 769491 DRWN: VHANDI 2023/10/30 CHK'D: RSILLER 2023/11/21 APPR: RSILLER 2023/11/21							
	ANGULAR TOL ± 1.0 °											
	4 PLACES	±										
	3 PLACES	±			INITIAL REVISION: DRWN: JMARSZALEK 2016/09/16 APPR: RSILLER 2016/12/08							
	2 PLACES	± 0.05										
	1 PLACE	± 0.3										
	0 PLACES	± 0.5			DOCUMENT NUMBER				DOC TYPE	DOC PART	REVISION	
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING	SERIES	1200668084		PSD	000
						A3-SIZE	120066	MATERIAL NUMBER		CUSTOMER		SHEET NUMBER
								SEE SHEET 3-4		GENERAL MARKET		2 OF 4

DOCUMENT STATUS	P1	RELEASE DATE	2023/11/21	12:03:28
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	10	9	8	7	6	5	4	3	2	1	
	PART LIST										
F	MOLEX PN			Engineering No.			Length				F
	1200668174			884030H09M030			3m				
	1200668380			884030H09M040			4m				
	1200668244			884030H09M050			5m				
	1200668550			884030H09M050H			5m				
	1200668737			884030H09M055			5.5m				
	1200669926			884030H09M065H			6.5m				
	1200669927			884030H09M070H			7m				
	1200669931			884030H09M075H			7.5m				
E	1200669932			884030H09M080H			8m				E
	1200668381			884030H09M100			10m				
	5P CABLE H09										
	1200668509			885030H09M006			0.6m				
	1200668497			885030H09M010			1m				
	1200669756			885030H09M015H			1.5m				
	1200668500			885030H09M020			2m				
	1200669762			885030H09M020H			2m				
	1200669757			885030H09M025H			2.5m				
D	1200668510			885030H09M030			3m				D
	1200669763			885030H09M030H			3m				
	1200668853			885030H09M040			4m				
	1200668501			885030H09M050			5m				
	1200668854			885030H09M060			6m				
	1200668502			885030H09M092			9.2m				
	1200668511			885030H09M100			10m				
	1200668683			885030H09M150			15m				
	1200668684			885030H09M200			20m				
C	8P CABLE P02										C
	1200661455			888030P02M005			0				

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	PART LIST												
F	MOLEX PN Engineering No. Length			MOLEX PN Engineering No. Length			MOLEX PN Engineering No. Length			MOLEX PN Engineering No. Length			F
	1200668174 884030H09M030 3m			1200660580 888030P02M020 2m			4P CABLE P03			1200668086 885030P03M0283 2.8m			
	1200668380 884030H09M040 4m			1200668804 888030P02M020H 2m			1200070486 884030P03M003 0.3m			1200071408 885030P03M030 3m			
	1200668244 884030H09M050 5m			1200660581 888030P02M030 3m			1200668687 884030P03M005 0.5m			1200668796 885030P03M030H 3m			
	1200668550 884030H09M050H 5m			1200660582 888030P02M040 4m			1200070487 884030P03M006 0.6m			1200668163 885030P03M040 4m			
	1200668737 884030H09M055 5.5m			1200660583 888030P02M050 5m			1200070488 884030P03M010 1m			1200071049 885030P03M050 5m			
	1200669926 884030H09M065H 6.5m			1200668806 888030P02M050H 5m			1200072762 884030P03M0101 1m			1200073049 885030P03M0501 5m			
	1200669927 884030H09M070H 7m			1200660584 888030P02M060 6m			1200072649 884030P03M0105 1m			1200668797 885030P03M050H 5m			
	1200669931 884030H09M075H 7.5m			1200668352 888030P02M250 25m			1200060050 884030P03M015 1.5m			1200668088 885030P03M070 7m			
E	1200669932 884030H09M080H 8m			1200669133 888030P02M3008 30m			1200070489 884030P03M020 2m			1200071284 885030P03M100 10m			E
	1200668381 884030H09M100 10m			1200668810 888030P02M350H 35m			1200072763 884030P03M0201 2m			1200668798 885030P03M100H 10m			
	5P CABLE H09			1200668544 888030P02M500 50m			1200668754 884030P03M020H 2m			1200072656 885030P03M120 12m			
	1200668509 885030H09M006 0.6m						1200060051 884030P03M030 3m			1200073084 885030P03M150 15m			
	1200668497 885030H09M010 1m			3P CABLE P03			1200072764 884030P03M0301 3m			1200669111 885030P03M150H 15m			
	1200669756 885030H09M015H 1.5m			1200070102 883030P03M003 0.3m			1200072803 884030P03M040 4m			1200668238 885030P03M200 20m			
	1200668500 885030H09M020 2m			1200070104 883030P03M006 0.6m			1200070490 884030P03M050 5m						

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	PART LIST										
F	MOLEX PN			Engineering No.			Length				F
	1200668174			884030H09M030			3m				
	1200668380			884030H09M040			4m				
	1200668244			884030H09M050			5m				
	1200668550			884030H09M050H			5m				
	1200668737			884030H09M055			5.5m				
	1200669926			884030H09M065H			6.5m				
	1200669927			884030H09M070H			7m				
	1200669931			884030H09M075H			7.5m				
E	1200669932			884030H09M080H			8m				E
	1200668381			884030H09M100			10m				
	5P CABLE H09										
	1200668509			885030H09M006			0.6m				
	1200668497			885030H09M010			1m				
	1200669756			885030H09M015H			1.5m				
	1200668500			885030H09M020			2m				
	1200669762			885030H09M020H			2m				
	1200669757			885030H09M025H			2.5m				
D	1200668510			885030H09M030			3m				D
	1200669763			885030H09M030H			3m				
	1200668853			885030H09M040			4m				
	1200668501			885030H09M050			5m				
	1200668854			885030H09M060			6m				
	1200668502			885030H09M092			9.2m				
	1200668511			885030H09M100			10m				
	1200668683			885030H09M150			15m				
	1200668684			885030H09M200			20m				
C	8P CABLE P02										C
	1200661455			888030P02M005			0.5m			</	

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