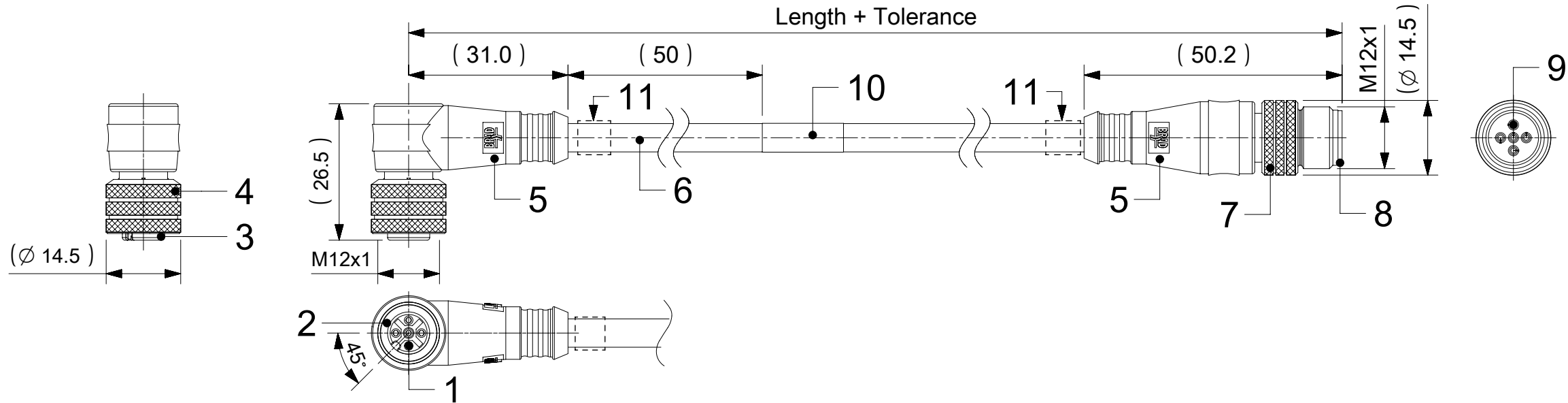


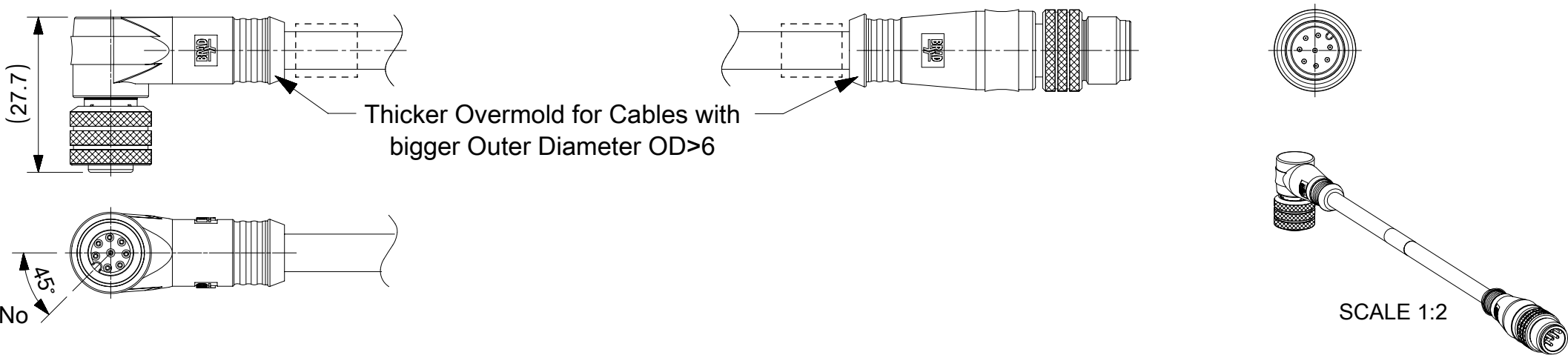
FEMALE PLUG M12 90° ANGLED TO MALE PLUG M12 STRAIGHT



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

* FOR CABLES lxx USE PRINTING ON THE CABLE IN THE SAME MEASUREMENT LIKE FOR LABEL – ENGINEERING No



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	---	5	---	5	GREY OR GREEN/YELLOW	5	GREY
							6	PINK
							7	BLUE
CODING REQUIRED TO IEC 61076-2-101								

FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

11	SEE PART LIST	ID CARRIER	PVC	TRANSPARENT
10	1	LABEL YELLOW	VINYL	---
9	-	PRINTING FOR CABLES lxx	---	---
8	3 / 4 / 5 / 8	CONTACT MALE	SEE PART LIST	SELECTIVE Au OVER Ni
7	1	INSERT MALE BLACK	SEE PART LIST	---
6	1	COUPLING NUT MALE	SEE PART LIST	---
5	-	CABLE	SEE SHEET 2	---
4	-	OVERMOULDING BLACK	SEE PART LIST	---
3	1	COUPLING NUT FEMALE	SEE PART LIST	---
2	1	INSERT FEMALE BLACK	SEE PART LIST	---
1	1	O-RING RED	FPM	---
1	3 / 4 / 5 / 8	CONTACT FEMALE	SEE PART LIST	SELECTIVE Au OVER Ni
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				
CURRENT REV DESC:				
DIVISIONAL SYMBOLS				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				
THIRD ANGLE PROJECTION				
DRAWING				
SERIES				
MATERIAL NUMBER				
CUSTOMER				
SHEET NUMBER				
EC NO: 684766				
DRWN: SSM				
CHK'D: RSILLER				
APPR: RSILLER				
INITIAL REVISION:				
DRWN: JMARSZALEK				
APPR: RSILLER				
DOCUMENT NUMBER				
DOC TYPE				
DOC PART				
REVISION				
1200660973				
PSD				
000				
A9				
A3-SIZE				
120066				
SEE SHEET 3, 4				
GENERAL MARKET				
1 OF 4				

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

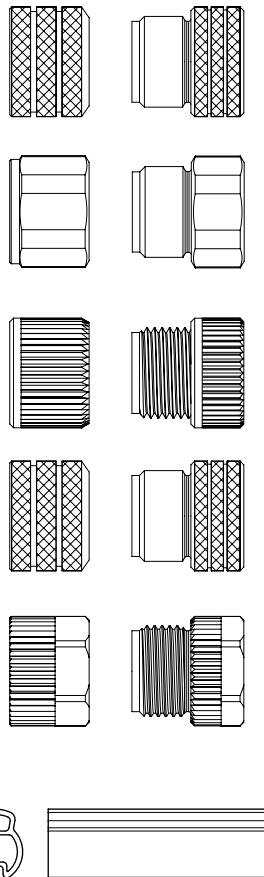
OPTIONS

Overmold color:
Blank (Standard)=Black TPU
Blank=Yellow TPU for cables
A09, S19, S20, S26
Blank=Yellow TPE-E for cables
K03, K05
A=Grey / G=Black / Y=Yellow

Coupling Nut:
Blank (Standard)=Knurled Brass Ni Plated _____
1=Hexagonal Stainless steel _____
5=Knurled Derlin _____
7=Knurled Brass Ni Plated, Teflon Coated _____
Blank=7 for cables I20, I26, K03, K05, P82, S26
9=Knurled / Hexagonal Brass Ni Plated SW13 _____

H= 2 pcs. of I/D Carrier PVC Transparent —
(Cables lxx & P82 always with 2 pcs. of
I/D Carrier even if no H in Engineering No.)

COUPLING NUT
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
I03	3 / 4 / 5	0.34mm²	PVC CEI GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	-
I20	3 / 4	0.34mm²	PVC CEI GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	YES
I26	5	0.34mm²	PVC CEI GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	YES
K03	4	18AWG	TPE YELLOW	UL ITC or PLC	I/II A/B 90°C/300V	max 105°C	-	-	-
K05	3 / 4 / 5	22AWG	TPE YELLOW	UL ITC or PLC	I/II A/B 90°C/300V	max 105°C	-	-	-
P82	3 / 4 / 5	0.34mm²	PUR IRR ORANGE	-	-	-50°C to +105°C, >5xO.D.	-40°C to +105°C, >7.5xO.D.	-	-
S20	3 / 4 / 5	0.34mm²	PVC YELLOW	UL 2661/1731	C22.2 II A 105°C/300V	-30°C to +105°C	-	-	YES
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.	-	-
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	-
P03	3 / 4 / 5	0.34mm²	PUR / PVC BLACK	-	-	-30°C to +80°C, >7xO.D.	-5°C to +80°C, >15xO.D.	-	-
H08	8	0.25mm²	PUR BLACK LS0H	UL 21198/10493	UL 21198/10493	-40°C to +80°C, >5xO.D.	-25°C to +80°C, >10xO.D.	2 000 000 cycles, Temp max 60°C	-
P02	8	0.25mm²	PUR / PVC BLACK	-	-	-30°C to +80°C, >7xO.D.	-5°C to +80°C, >15xO.D.	-	-

CABLE LENGTH TOLERANCES

OVER	UP TO AND INCLUDING	TOLERANCES
0	305mm	+19mm
305mm	915mm	+45mm
915mm	1830mm	+56mm
1830mm	3660mm	+89mm
3660mm	7320mm	+165mm
7320mm	14640mm	+317mm
14640mm	30500mm	+610mm
30500mm	>	+2% of finished length

DOCUMENT STATUS	P1	RELEASE DATE	2021/11/10	13:49:49
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FUNCTIONAL SYMBOLS F A = 0 F C = 0 F E = 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		SCALE		CURRENT REV DESC: EC NO: 684766 DRWN: SSM 2021/11/03 CHK'D: RSILLER 2021/11/10 APPR: RSILLER 2021/11/10 INITIAL REVISION: DRWN: JMARSZALEK 2016/10/06 APPR: RSILLER 2016/12/08				molex CSE M12 XP AC FE RA MA STR XM DE										
	mm		1:1																
	GENERAL TOLERANCES (UNLESS SPECIFIED)								PRODUCT CUSTOMER DRAWING										
	ANGULAR TOL ± 1.0°																		
	4 PLACES		±		DOCUMENT NUMBER 1200660973 DOC TYPE PSD DOC PART 000 REVISION A9														
	3 PLACES		±																
	2 PLACES		± 0.05																
	1 PLACE		± 0.3																
	0 PLACES		± 0.5		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION 		DRAWING A3-SIZE		SERIES 120066		MATERIAL NUMBER SEE SHEET 3, 4		CUSTOMER GENERAL MARKET		SHEET NUMBER 2 OF 4

	10	9	8	7	6	5	4	3	2	1																																																																																																																																																																		
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F	<table> <tr><th>No.</th><th>Part No.</th><th>Engineering No.</th><th>Cable Length</th></tr> <tr><td>1</td><td>1200060052</td><td>884031I20M005</td><td>0.5m</td></tr> <tr><td>2</td><td>1200060053</td><td>884031I20M010</td><td>1m</td></tr> <tr><td>3</td><td>1200060054</td><td>884031I20M015</td><td>1.5m</td></tr> <tr><td>4</td><td>1200060055</td><td>884031I20M020</td><td>2m</td></tr> </table>				No.	Part No.	Engineering No.	Cable Length	1	1200060052	884031I20M005	0.5m	2	1200060053	884031I20M010	1m	3	1200060054	884031I20M015	1.5m	4	1200060055	884031I20M020	2m	<table> <tr><th>No.</th><th>Part No.</th><th>Engineering No.</th><th>Cable Length</th></tr> <tr><td>36</td><td>1200071575</td><td>884031P82M006</td><td>0.6m</td></tr> <tr><td>37</td><td>1200071576</td><td>884031P82M010</td><td>1m</td></tr> <tr><td>38</td><td>1200071577</td><td>884031P82M015</td><td>1.5m</td></tr> <tr><td>39</td><td>1200071578</td><td>884031P82M0307</td><td>3m</td></tr> </table>				No.	Part No.	Engineering No.	Cable Length	36	1200071575	884031P82M006	0.6m	37	1200071576	884031P82M010	1m	38	1200071577	884031P82M015	1.5m	39	1200071578	884031P82M0307	3m	<table> <tr><th>No.</th><th>Part No.</th><th>Engineering No.</th><th>Cable Length</th></tr> <tr><td>71</td><td>1200660971</td><td>884031K03M006</td><td>0.6m</td></tr> <tr><td>72</td><td>1200660973</td><td>884031K03M010</td><td>1m</td></tr> <tr><td>73</td><td>1200660975</td><td>884031K03M015</td><td>1.5m</td></tr> <tr><td>74</td><td>1200660976</td><td>884031K03M020</td><td>2m</td></tr> </table>				No.	Part No.	Engineering No.	Cable Length	71	1200660971	884031K03M006	0.6m	72	1200660973	884031K03M010	1m	73	1200660975	884031K03M015	1.5m	74	1200660976	884031K03M020	2m	<table> <tr><th>Pos.</th><th>Part No.</th><th>Engineering No.</th><th>Cable Length</th></tr> <tr><td>106</td><td>1200668160</td><td>883021S20M010</td><td>1m</td></tr> <tr><td>107</td><td>1200668608</td><td>883031E02M020</td><td>2m</td></tr> <tr><td>108</td><td>1200668613</td><td>883031E02M030</td><td>3m</td></tr> <tr><td>109</td><td>1200659035</td><td>883031E02M050</td><td>5m</td></tr> </table>				Pos.	Part No.	Engineering No.	Cable Length	106	1200668160	883021S20M010	1m	107	1200668608	883031E02M020	2m	108	1200668613	883031E02M030	3m	109	1200659035	883031E02M050	5m																																																																												
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48	1200072726	885031I26M010	1m																																																																																																																																																																									
49	1200659070	884031I20M010Y	1m																																																																																																																																																																									
75	1200660977	884031K03M030	3m																																																																																																																																																																									
76	1200660978	884031K03M040	4m																																																																																																																																																																									
77	1200660980	884031K03M050	5m																																																																																																																																																																									
78	1200660982	884031K03M060	6m																																																																																																																																																																									
79	1200660983	884031K03M070	7m																																																																																																																																																																									
80	1200660984	884031K03M090	9m																																																																																																																																																																									
81	1200660985	884031K03M100	10m																																																																																																																																																																									
82	1200665007	884031P82M0157	1.5m																																																																																																																																																																									
83	1200665039	884031S20M003	0.3m																																																																																																																																																																									
84	1200665053	884031S20M060H	6m																																																																																																																																																																									
110	1200668612	883031E02M100	10m																																																																																																																																																																									
111	1200668908	883031E03M003H	0.3m																																																																																																																																																																									
112	1200070118	883031E03M006	0.6m																																																																																																																																																																									
113	1200668909	883031E03M006H	0.6m																																																																																																																																																																									
114	1200070119	883031E03M010	1m																																																																																																																																																																									
115	1200668910	883031E03M010H	1m																																																																																																																																																																									
116	1200070945	883031E03M015	1.5m																																																																																																																																																																									
117	1200668967	883031E03M015H	1.5m																																																																																																																																																																									
118	1200070121	883031E03M020	2m																																																																																																																																																																									
119	1200072445	883031E03M020H	2m																																																																																																																																																																									
D	<table> <tr><td>14</td><td>1200070522</td><td>884031I03M020</td><td>2m</td></tr> <tr><td>15</td><td>1200070523</td><td>884031I03M030</td><td>3m</td></tr> <tr><td>16</td><td>1200070534</td><td>884031S20M030</td><td>3m</td></tr> <tr><td>17</td><td>1200070651</td><td>884031I03M006</td><td>0.6m</td></tr> <tr><td>18</td><td>1200070768</td><td>884031S20M050</td><td>5m</td></tr> <tr><td>19</td><td>1200070783</td><td>884031S20M100H</td><td>10m</td></tr> <tr><td>20</td><td>1200071010</td><td>884031P82M100</td><td>10m</td></tr> <tr><td>21</td><td>1200071096</td><td>884031P82M0037</td><td>0.3m</td></tr> <tr><td>22</td><td>120</td></tr></table>	14	1200070522	884031I03M020	2m	15	1200070523	884031I03M030	3m	16	1200070534	884031S20M030	3m	17	1200070651	884031I03M006	0.6m	18	1200070768	884031S20M050	5m	19	1200070783	884031S20M100H	10m	20	1200071010	884031P82M100	10m	21	1200071096	884031P82M0037	0.3m	22	120																																																																																																																																									
14	1200070522	884031I03M020	2m																																																																																																																																																																									
15	1200070523	884031I03M030	3m																																																																																																																																																																									
16	1200070534	884031S20M030	3m																																																																																																																																																																									
17	1200070651	884031I03M006	0.6m																																																																																																																																																																									
18	1200070768	884031S20M050	5m																																																																																																																																																																									
19	1200070783	884031S20M100H	10m																																																																																																																																																																									
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21	1200071096	884031P82M0037	0.3m																																																																																																																																																																									
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