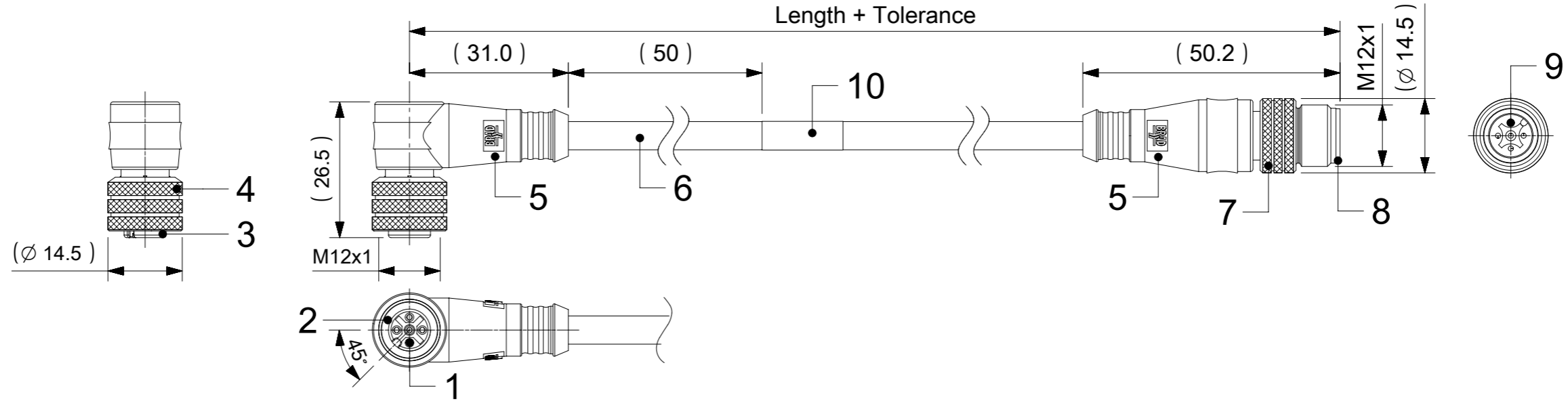


FEMALE PLUG M12 90° ANGLED TO MALE PLUG M12 STRAIGHT

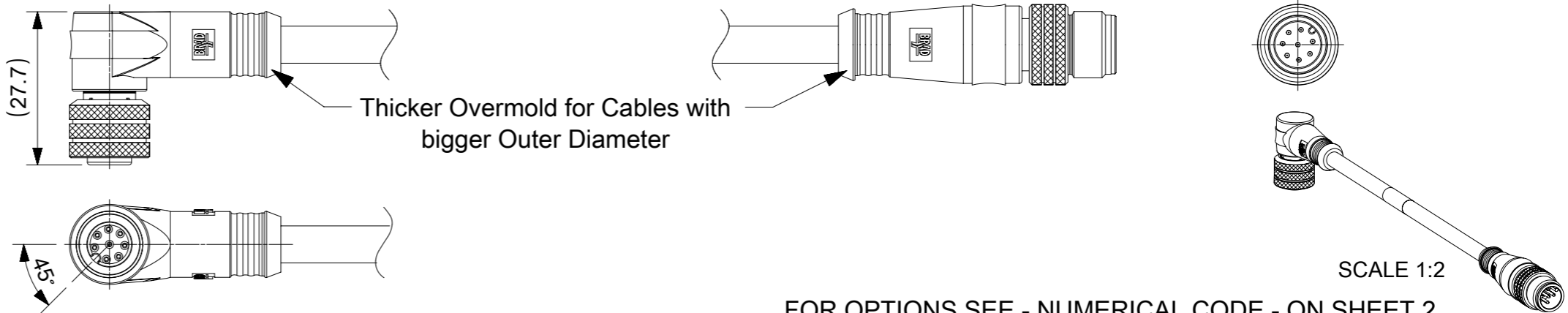


NOTES:

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



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
						8	RED	

CODING REQUIRED TO IEC 61076-2-101

FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

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

QUALITY SYMBOLS FA = 0 FE = 0 FF = 0 FV = 0 FC = 0 FX = 0 FS = 0 FT = 0	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		DIMENSION UNITS: MM SCALE: 1:1		 CSE M12 XP AC FE RA MA STR XM DE PRODUCT CUSTOMER DRAWING	
	EC NO: 110836 DRWN: JMARSZALEK CHK'D: RSILLER APPR: RSILLER	2016/10/06 2016/12/08	GENERAL TOLERANCES (UNLESS SPECIFIED) ANGULAR TOL ± 1.0 ° 4 PLACES ± 3 PLACES ± 2 PLACES ± 0.05 1 PLACE ± 0.3 0 PLACES ± 0.5	DRWN BY: JMARSZALEK DATE: 2016/10/06 CHK'D BY: RSILLER DATE: 2016/12/08		DRAWING SIZE: A3 THIRD ANGLE PROJECTION
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SERIES: 120066 MATERIAL NUMBER: SEE SHEET 3 CUSTOMER: GENERAL MARKET		
	RELEASE STATUS: P1 RELEASE DATE: 08.12.2016 08:45:00		DOCUMENT NUMBER: 1200660973 DOC TYPE: PSD DOC PART: 000 SHEET NUMBER: 1 OF 3			

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

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

OPTIONS

88=Micro-Change
M12x1
Double ended

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

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

Cable type: See Table

Units:
M=Meter
C=Centimeter

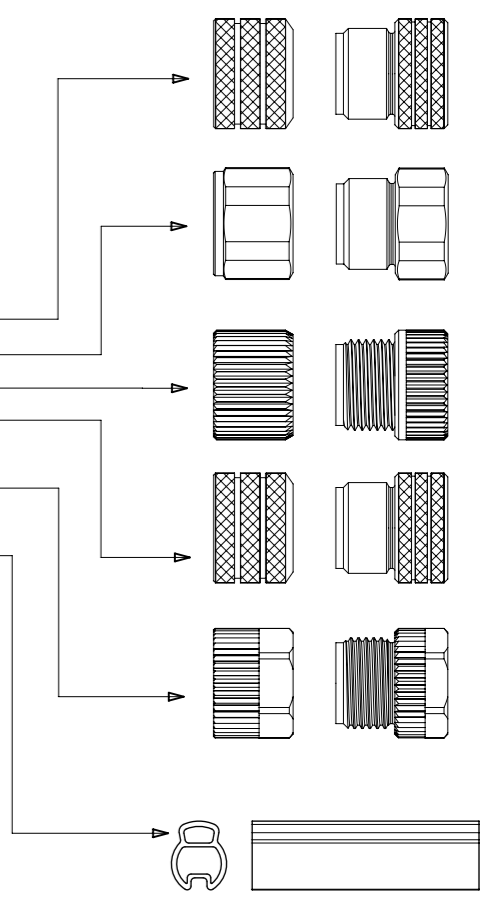
Length
Examples:
005=0.5 unit
010=1 unit
100=10 units

Overmold color:
Blank (Standard)=Black TPU
Blank=Yellow PVC 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 Ixx & 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
B02	4	18AWG	PUR YELLOW	UL 20549	I/II A/B 80°C/300V	-	-	-	-
I03	3 / 4 / 5	0.34mm ²	PVC CEI GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	-
I20	3 / 4	0.34mm ²	PVC CEI GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	YES
I26	5	0.34mm ²	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	0.34mm ²	PUR IRR ORANGE	-	-	-50°C to +105°C, >5xO.D.	-40°C to +105°C, >7.5xO.D.	-	-
S20	3 / 4 / 5	0.34mm ²	PVC YELLOW	UL 2661/1731	C22.2 II A 105°C/300V	-30°C to +105°C	-	-	YES

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

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QUALITY SYMBOLS □ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0	EC NO: 110836 DRWN: JMARSZALEK CHK'D: APPR: RSILLER	2016/10/06 2016/12/08	GENERAL TOLERANCES (UNLESS SPECIFIED) ANGULAR TOL ± 1.0 °		DIMENSION UNITS MM	SCALE 1:1						
			4 PLACES ±	3 PLACES ±	2 PLACES ± 0.05	1 PLACE ± 0.3		0 PLACES ± 0.5	DRWN BY JMARSZALEK	DATE 2016/10/06	CSE M12 XP AC FE RA MA STR XM DE	
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					CHK'D BY	DATE	PRODUCT CUSTOMER DRAWING		
								APPR BY RSILLER	DATE 2016/12/08			SERIES: 120066 MATERIAL NUMBER: SEE SHEET 3 CUSTOMER: GENERAL MARKET
RELEASE STATUS: P1		RELEASE DATE: 08.12.2016 08:45:00		DRAWING SIZE: A3		THIRD ANGLE PROJECTION		DOCUMENT NUMBER: 1200660973 DOC TYPE: PSD DOC PART: 000 SHEET NUMBER: 2 OF 3				

PART LIST

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
5	1200070132	883031I03M003	0.3m
6	1200070133	883031I03M006	0.6m
7	1200070134	883031I03M010	1m
8	1200070136	883031I03M020	2m
9	1200070137	883031I03M030	3m
10	1200070138	883031I03M050	5m
11	1200070152	883031S20M010	1m
12	1200070153	883031S20M020	2m
13	1200070156	883031S20M050	5m
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	1200071138	884031S20M010H	1m
23	1200071139	884031S20M020H	2m
24	1200071143	884031P82M0107	1m
25	1200071144	884031P82M0207	2m
26	1200071164	884031S20M003H	0.3m
27	1200071179	884031S20M006H	0.6m
28	1200071183	884031S20M030H	3m
29	1200071189	884031S20M050H	5m
30	1200071200	884031S20M015H	1.5m
31	1200071236	884031S20M005H	0.5m
32	1200071280	884031S20M040H	4m
33	1200071318	884031P82M0067	0.6m
34	1200071341	884031I20M030	3m
35	1200071493	883031P82M0507	5m

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
40	1200071579	884031P82M050	5m
41	1200071581	884031P82M020	2m
42	1200071832	884031I20M050	5m
43	1200071833	884031I20M100	10m
44	1200071893	884031S20M100	10m
45	1200071994	885031P82M0307	3m
46	1200072696	883031S20M010H	1m
47	1200072725	885031I26M005	0.5m
48	1200072726	885031I26M010	1m
49	1200659070	884031I20M010Y	1m
50	1200659071	884031I20M015Y	1.5m
51	1200659072	884031I20M020Y	2m
52	1200659115	884031I20M005Y	0.5m
53	1200660374	884031K05M005	0.5m
54	1200660375	884031K05M006	0.6m
55	1200660376	884031K05M010	1m
56	1200660377	884031K05M015	1.5m
57	1200660378	884031K05M020	2m
58	1200660379	884031K05M030	3m
59	1200660380	884031K05M040	4m
60	1200660381	884031K05M050	5m
61	1200660382	884031K05M060	6m
62	1200660383	884031S20M010	1m
63	1200660546	884031K05M100	10m
64	1200660928	884031B02M005	0.5m
65	1200660929	884031B02M006	0.6m
66	1200660931	884031B02M010	1m
67	1200660935	884031B02M020	2m
68	1200660937	884031B02M030	3m
69	1200660940	884031B02M050	5m
70	1200660942	884031B02M060	6m

No.	Part No.	Engineering No.	Cable Length
71	1200660947	884031B02M100	10m
72	1200660971	884031K03M006	0.6m
73	1200660973	884031K03M010	1m
74	1200660975	884031K03M015	1.5m
75	1200660976	884031K03M020	2m
76	1200660977	884031K03M030	3m
77	1200660978	884031K03M040	4m
78	1200660980	884031K03M050	5m
79	1200660982	884031K03M060	6m
80	1200660983	884031K03M070	7m
81	1200660984	884031K03M090	9m
82	1200660985	884031K03M100	10m
83	1200665007	884031P82M0157	1.5m
84	1200665039	884031S20M003	0.3m
85	1200665053	884031S20M060H	6m
86	1200665074	884031K05M080	8m
87	1200668052	883031S20M006	0.6m
88	1200668071	884031S20M020	2m
89	1200668191	883031S20M030	3m
90	1200668221	884031P82M0407	4m
91	1200668237	883031S20M100	10m
92	1200668247	884031P82M0057	0.5m
93	1200668258	883031I03M080	8m
94	1200668259	884031I20M003	0.3m
95	1200668287	884031I20M025	2.5m
96	1200668392	884031P82M0607	6m
97	1200668531	884031P82M0507	5m
98	1200668532	884031P82M1007	10m
99	1200668647	884031P82M0067Y	0.6m
100	1200668666	884031P82M0107Y	1m
101	1200668667	884031I20M030Y	3m
102			
103			
104			
105			

Pos.	Part No.	Engineering No.	Cable Length
106			
107			
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110			
111			
112			
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118			
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<p>QUALITY SYMBOLS</p> <p>FA = 0</p> <p>FE = 0</p> <p>FB = 0</p> <p>FV = 0</p> <p>FC = 0</p> <p>FX = 0</p> <p>FS = 0</p> <p>FV = 0</p>				<p>THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</p>				<p>2016/10/06</p> <p>2016/12/08</p>				<p>GENERAL TOLERANCES (UNLESS SPECIFIED)</p> <p>ANGULAR TOL ± 1.0 °</p> <p>4 PLACES ±</p> <p>3 PLACES ±</p> <p>2 PLACES ± 0.05</p> <p>1 PLACE ± 0.3</p> <p>0 PLACES ± 0.5</p> <p>DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</p>				<p>DIMENSION UNITS</p> <p>MM</p>		<p>SCALE</p> <p>1:1</p>		<p>molex</p>			
<p>EC NO: 110836</p> <p>DRWN: JMARSZALEK</p> <p>CHK'D: RSILLER</p> <p>REV APPR: RSILLER</p>				<p>DRWN BY</p> <p>JMARSZALEK</p>				<p>DATE</p> <p>2016/10/06</p>				<p>CSE M12 XP AC FE RA MA STR XM DE</p>											
<p>APPR BY</p> <p>RSILLER</p>				<p>DATE</p> <p>2016/12/08</p>				<p>PRODUCT CUSTOMER DRAWING</p>				<p>SERIES</p> <p>120066</p>											
<p>DRAWING SIZE</p> <p>A3</p>				<p>THIRD ANGLE PROJECTION</p>				<p>MATERIAL NUMBER</p> <p>SEE PART LIST</p>				<p>CUSTOMER</p> <p>GENERAL MARKET</p>											
<p>RELEASE STATUS</p> <p>P1</p>				<p>RELEASE DATE</p> <p>08.12.2016</p>				<p>08:45:00</p>				<p>DOCUMENT NUMBER</p> <p>1200660973</p>											
<p>DOC TYPE</p> <p>PSD</p>				<p>DOC PART</p> <p>000</p>				<p>SHEET NUMBER</p> <p>3 OF 3</p>															