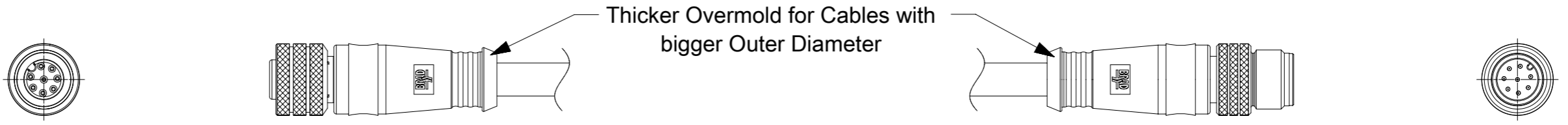
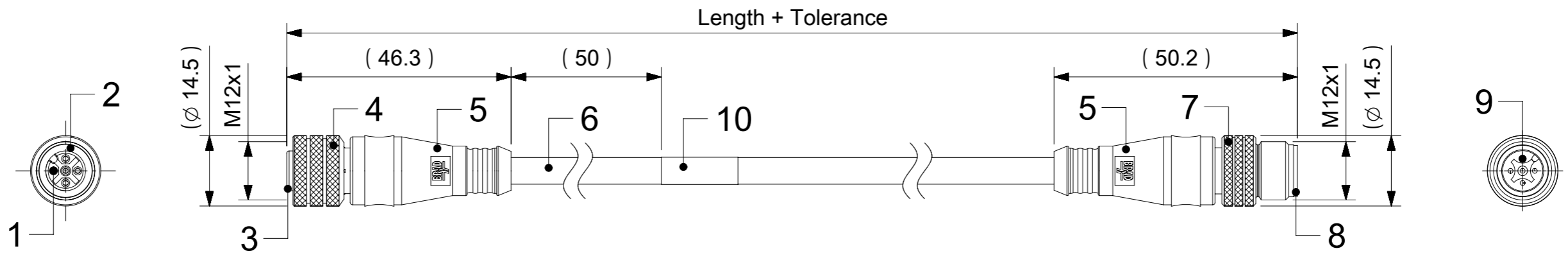


# FEMALE PLUG M12 STRAIGHT TO MALE PLUG M12 STRAIGHT

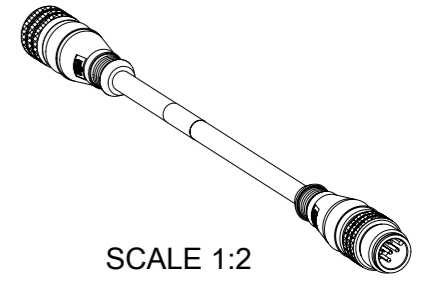


**NOTES:**

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



SCALE 1:2

**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	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	---
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 GV = 0 CH = 0 CR = 0 CS = 0 CU = 0 CV = 0 CA = 0 CB = 0 CC = 0 CD = 0 CE = 0 CF = 0 CG = 0 CH = 0 CI = 0 CJ = 0 CK = 0 CL = 0 CM = 0 CN = 0 CO = 0 CP = 0 CQ = 0 CR = 0 CS = 0 CT = 0 CU = 0 CV = 0 CW = 0 CX = 0 CY = 0 CZ = 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		<p>CSE M12 XP AC FE STR MA STR XM DE</p> <p>PRODUCT CUSTOMER DRAWING</p>	
	EC NO: 110836 DRWN: JMARSZALEK CHK'D: RSILLER APPR: RSILLER	2016/09/16 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: 2016/09/16 CHK'D BY: RSILLER DATE: 2016/12/08 APPR BY: RSILLER DATE: 2016/12/08		SERIES: 120066 MATERIAL NUMBER: SEE SHEET 3-4 CUSTOMER: GENERAL MARKET
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRAWING SIZE: A3 THIRD ANGLE PROJECTION	DOCUMENT NUMBER: 1200668084 DOC TYPE: PSD DOC PART: 000 SHEET NUMBER: 1 OF 4		
	RELEASE STATUS: P1 RELEASE DATE: 08.12.2016 08:45:01					

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

8 8 X 0 3 0 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 Straight  
to Plug Male Straight

Cable type: See Table

Units:  
M=Meter

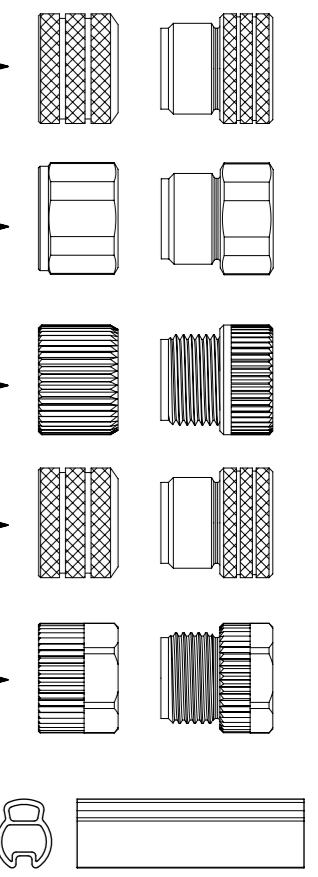
Length  
Examples:  
005=0.5 unit  
010=1 unit  
100=10 units

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  
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	0.25mm <sup>2</sup>	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	0.34mm <sup>2</sup>	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	0.25mm <sup>2</sup>	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	0.34mm <sup>2</sup>	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	0.25mm <sup>2</sup>	PUR / PVC BLACK	-	-	-30°C to +80°C, 7xO.D.	-5°C to +80°C, 15xO.D.	-	-
P03	3 / 4 / 5	0.34mm <sup>2</sup>	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

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

QUALITY SYMBOLS FA = 0 FE = 0 FB = 0 FC = 0 FD = 0 FE = 0 FF = 0 FG = 0 FH = 0	EC NO: 110836 DRWN: JMARSZALEK CHK'D: RSILLER APPR: RSILLER	2016/09/16 2016/12/08	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION UNITS	SCALE		
			ANGULAR TOL ± 1.0 °		MM	1:1		
			4 PLACES ±	3 PLACES ±	DRWN BY	DATE		
			2 PLACES ± 0.05	1 PLACE ± 0.3	JMARSZALEK	2016/09/16		
0 PLACES ± 0.5	0 PLACES ± 0.5	CHK'D BY	DATE	PRODUCT CUSTOMER DRAWING		SERIES: 120066 MATERIAL NUMBER: SEE SHEET 3-4 CUSTOMER: GENERAL MARKET		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		APPR BY	DATE	DOCUMENT NUMBER	DOC TYPE		DOC PART	SHEET NUMBER
		RSILLER	2016/12/08	1200668084	PSD		000	2 OF 4

# PART LIST

No.	Part No.	Engineering No.	Cable Length
1	1200060049	884030E03M050	5m
2	1200060050	884030P03M015	1.5m
3	1200060051	884030P03M030	3m
4	1200070081	883030E03M006	0.6m
5	1200070083	883030E03M010	1m
6	1200070085	883030E03M020	2m
7	1200070086	883030E03M0205	2m
8	1200070088	883030E03M030	3m
9	1200070091	883030E03M050	5m
10	1200070092	883030E03M0505	5m
11	1200070093	883030E03M100	10m
12	1200070102	883030P03M003	0.3m
13	1200070104	883030P03M006	0.6m
14	1200070105	883030P03M100	10m
15	1200070470	884030E03M003	0.3m
16	1200070472	884030E03M006	0.6m
17	1200070473	884030E03M010	1m
18	1200070474	884030E03M020	2m
19	1200070475	884030E03M030	3m
20	1200070476	884030E03M100	10m
21	1200070486	884030P03M003	0.3m
22	1200070487	884030P03M006	0.6m
23	1200070488	884030P03M010	1m
24	1200070489	884030P03M020	2m
25	1200070490	884030P03M050	5m
26	1200070586	885030E03M030	3m
27	1200070596	885030P03M020	2m
28	1200070906	885030E03M010	1m
29	1200070969	885030E03M050	5m
30	1200070970	885030E03M020	2m
31	1200071006	883030E03M020H	2m
32	1200071029	884030P03M100	10m
33	1200071047	883030P03M050H	5m
34	1200071049	885030P03M050	5m
35	1200071053	883030P03M150	15m

No.	Part No.	Engineering No.	Cable Length
36	1200071114	883030P03M020H	2m
37	1200071122	883030P03M030H	3m
38	1200071123	883030P03M010H	1m
39	1200071131	883030P03M0201	2m
40	1200071199	884030E03M200	20m
41	1200071273	883030P03M100H	10m
42	1200071284	885030P03M100	10m
43	1200071288	883030P03M060	6m
44	1200071408	885030P03M030	3m
45	1200071500	885030E03M005	0.5m
46	1200071583	885030E03M080	8m
47	1200071594	884030E03M015	1.5m
48	1200071596	884030E03M060	6m
49	1200071703	884030E03M0205	2m
50	1200071707	884030E03M0505	5m
51	1200071715	884030E03M150	15m
52	1200071774	884030E03M020H	2m
53	1200071793	884030E03M1501 *	15m
54	1200071881	884030E03M1005	10m
55	1200071947	885030P03M007	0.7m
56	1200071948	885030E03M040	4m
57	1200072010	884030P03M050H	5m
58	1200072081	885030E03M035	3.5m
59	1200072092	884030E03M040	4m
60	1200072104	883030P03M040	4m
61	1200072105	884030P03M200	20m
62	1200072172	884030E03M050H	5m
63	1200072544	884030E03M120	12m
64	1200072649	884030P03M0105	1m
65	1200072650	884030P03M0505	5m
66	1200072656	885030P03M120	12m
67	1200072658	883030P03M120	12m
68	1200072697	885030E03M060	6m
69	1200072744	884030E03M0501 *	5m
70	1200072762	884030P03M0101	1m

No.	Part No.	Engineering No.	Cable Length
71	1200072763	884030P03M0201	2m
72	1200072764	884030P03M0301	3m
73	1200072803	884030P03M040	4m
74	1200072804	884030P03M060	6m
75	1200073049	885030P03M0501	5m
76	1200073083	885030P03M006	0.6m
77	1200073084	885030P03M150	15m
78	1200660498	883030P03M010	1m
79	1200660500	883030P03M020	2m
80	1200660501	883030P03M030	3m
81	1200660502	883030P03M050	5m
82	1200660579	888030P02M010	1m
83	1200660580	888030P02M020	2m
84	1200660581	888030P02M030	3m
85	1200660582	888030P02M040	4m
86	1200660583	888030P02M050	5m
87	1200660584	888030P02M060	6m
88	1200660585	888030P02M100	10m
89	1200660586	888030P02M150	15m
90	1200661455	888030P02M005	0.5m
91	1200661605	888030P02M300	30m
92	1200665009	884030E03M005	0.5m
93	1200665031	884030P03M100H	10m
94	1200665042	888030P02M110	11m
95	1200665370	884030P03M205G	20.5m
96	1200668045	883030P03M005	0.5m
97	1200668062	884030E03M010H	1m
98	1200668083	885030P03M005	0.5m
99	1200668084	885030P03M010	1m
100	1200668086	885030P03M0283	2.8m
101	1200668088	885030P03M070	7m
102	1200668097	888030H08M020	2m
103	1200668163	885030P03M040	4m
104	1200668174	884030H09M030	3m
105	1200668197	883030H09M020	2m

No.	Part No.	Engineering No.	Cable Length
106	1200668198	883030H09M050	5m
107	1200668208	883030E03M150	15m
108	1200668234	884030H09M020	2m
109	1200668238	885030P03M200	20m
110	1200668244	884030H09M050	5m
111	1200668288	888030E02M025	2.5m
112	1200668327	888030P02M200	20m
113	1200668338	885030E03M006	0.6m
114	1200668347	885030E03M100	10m
115	1200668352	888030P02M250	25m
116	1200668353	888030P02M350	35m
117	1200668354	888030P02M400	40m
118	1200668370	883030E03M040	4m
119	1200668373	883030H09M006	0.6m
120	1200668374	883030H09M010	1m
121	1200668375	883030H09M030	3m
122	1200668376	883030H09M040	4m
123	1200668377	883030H09M100	10m
124	1200668378	884030H09M006	0.6m
125	1200668379	884030H09M010	1m
126	1200668380	884030H09M040	4m
127	1200668381	884030H09M100	10m
128	1200668384	884030P03M010H	1m
129	1200668399	888030E02M003	0.3m
130	1200668486	884030H09M023	2.3m
131	1200668487	885030E03M200	20m
132	1200668491	888030H08M010	1m
133	1200668497	885030H09M010	1m
134	1200668500	885030H09M020	2m
135	1200668501	885030H09M050	5m
136	1200668502	885030H09M092	9.2m
137	1200668509	885030H09M006	0.6m
138	1200668510	885030H09M030	3m
139	1200668511	885030H09M100	10m
140	1200668521	885030E03M250	25m

## NOTES:

\* - Part No. with Yellow PVC overmolding

<b>QUALITY SYMBOLS</b> 	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										
	2016/09/16 2016/12/08 EC NO: 110836 DRWN: JMARSZALEK CHK'D: APPR: RSILLER	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION UNITS	SCALE						
		ANGULAR TOL ± 1.0 °		MM	1:1						
	4 PLACES ±	DATE		JMARSZALEK 2016/09/16							
	3 PLACES ±	DATE		CHK'D BY							
	2 PLACES ± 0.05	DATE		APPR BY							
	1 PLACE ± 0.3	DATE		RSILLER 2016/12/08							
	0 PLACES ± 0.5	DATE		DRAWING SIZE	THIRD ANGLE PROJECTION	PRODUCT CUSTOMER DRAWING SERIES: 120066 MATERIAL NUMBER: SEE PART LIST CUSTOMER: GENERAL MARKET					
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		A3		DOCUMENT NUMBER: 1200668084 DOC TYPE: PSD DOC PART: 000 SHEET NUMBER: 3 OF 4						

# PART LIST

No.	Part No.	Engineering No.	Cable Length
141	1200668528	885030E03M020H	2m
142	1200668530	885030E03M010H	1m
143	1200668538	888030P02M0101	1m
144	1200668543	888030P02M450	45m
145	1200668544	888030P02M500	50m
146	1200668545	888030P02M600	60m
147	1200668548	884030H09M006H	0.6m
148	1200668549	884030H09M010H	1m
149	1200668550	884030H09M050H	5m
150	1200668602	885030P03M020G	2m
151	1200668609	885030E02M050	5m
152	1200668646	883030P03M030HY	3m
153	1200668652	885030E03M070	7m
154	1200668656	885030E02M100	10m
155	1200668657	885030E02M020	2m
156	1200668661	884030E02M0031 *	0.3m
157	1200668662	883030E02M006	0.6m
158	1200668664	885030E02M010	1m
159	1200668672	884030E03M0051 *	0.5m
160	1200668674	885030E03M150	15m
161	1200668683	885030H09M150	15m
162	1200668684	885030H09M200	20m
163	1200668687	884030P03M005	0.5m
164	1200668689	884030H08M030	3m
165	1200668690	883030P03M020YH	2m
166	1200668691	883030P03M010YH	1m
167	1200668708	885030E02M050Y	5m
168	1200668712	883030P03M100HY	10m
169	1200668713	883030P03M050HY	5m
170	1200668714	884030H09M0209	2m
171	1200668715	884030H09M003	0.3m
172	1200668718	884030E03M250	25m
173	1200668719	884030E03M300	30m
174	1200668720	884030P03M150	15m
175	1200668721	884030P03M250	25m










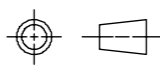
No.	Part No.	Engineering No.	Cable Length
176	1200668722	884030P03M300	30m
177	1200668723	884030P03M350	35m
178	1200668724	884030P03M400	40m
179	1200668737	884030H09M055	5.5m
180	1200668739	888030E02M0061	0.6m
181	1200668754	884030P03M020H	2m
182	1200668765	885030P03M015	1.5m
183	1200668770	884030E03M350	35m
184	1200668771	884030E03M400	40m
185	1200668772	885030P03M003	0.3m
186	1200668774	888030H08M100	10m
187	1200668775	885030P03M300	30m
188	1200668776	888030E02M010	1m
189	1200668777	888030E02M020	2m
190	1200668778	888030E02M030	3m
191	1200668779	888030E02M050	5m
192	1200668780	888030E02M100	10m
193	1200668781	888030E02M150	15m
194	1200668782	888030E02M200	20m
195	1200668783	888030E02M350	35m
196	1200668784	885030E03M300	30m
197	1200668785	885030E03M350	35m
198	1200668786	884030E03M070	7m
199	1200668794	885030P03M006H	0.6m
200	1200668795	885030P03M010H	1m
201	1200668796	885030P03M030H	3m
202	1200668797	885030P03M050H	5m
203	1200668798	885030P03M100H	10m
204	1200668800	885030P03M200H	20m
205	1200668801	885030P03M300H	30m
206	1200668802	885030P03M350H	35m
207	1200668803	888030P02M010H	1m
208	1200668804	888030P02M020H	2m
209	1200668805	888030P02M030H	3m
210	1200668806	888030P02M050H	5m

No.	Part No.	Engineering No.	Cable Length
211	1200668807	888030P02M100H	10m
212	1200668808	888030P02M150H	15m
213	1200668809	888030P02M200H	20m
214	1200668810	888030P02M350H	35m
215	1200668815	884030P03M0805	8m
216	1200668852	888030P02M025	2.5m
217	1200668853	885030H09M040	4m
218	1200668854	885030H09M060	6m
219	1200668903	885030P03C130	0.13m
220	1200668917	888030P02M090	9m
221	1200668970	888030P02M004	0.4m
222	1200668971	888030E02M006	0.6m
223	1200668972	885030E03M003	0.3m
224	1200668973	885030E03M025	2.5m
225	1200668980	885030E03M080H	8m
226	1200668981	885030E03M040H	4m
227	1200668982	885030E03M060H	6m
228	1200668985	885030E03M030H	3m
229	1200669111	885030P03M150H	15m
230	1200669117	888030H08M040	4m
231	1200669133	888030P02M3008	30m
232	1200669134	883030H09M015	1.5m
233	1200669135	883030H09M200	20m
234	1200669153	883030E03M0101	1m
235	1200669161	888030H08M150	15m
236	1200669212	888030H08M050	5m
237			
238			
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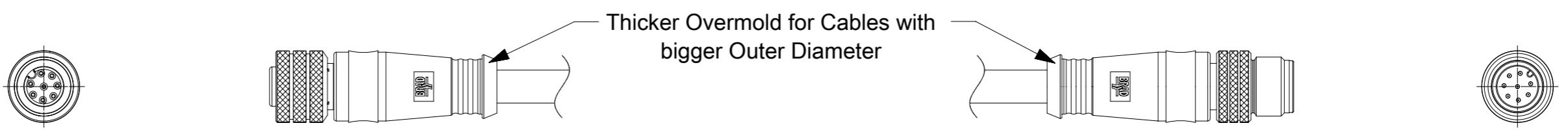
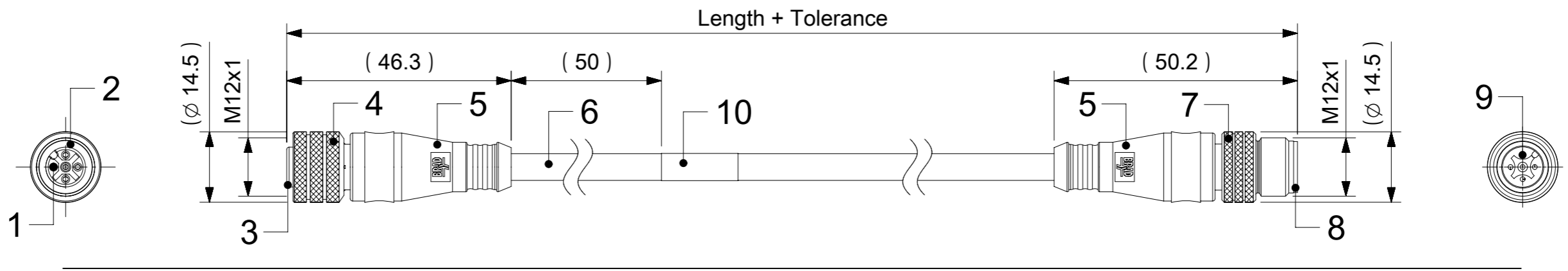
No.	Part No.	Engineering No.	Cable Length
246			
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## NOTES:

\* - Part No. with Yellow PVC overmolding

QUALITY DIMENSION SYMBOLS												THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																
 = 0  = 0  = 0  = 0  = 0  = 0  = 0  = 0			2016/09/16 2016/12/08 EC NO: 110836 DRWN: JMARSZALEK CHK'D: RSILLER APPR:			GENERAL TOLERANCES (UNLESS SPECIFIED) ANGULAR TOL ± 1.0 ° 4 PLACES ± 3 PLACES ± 2 PLACES ± 0.05 1 PLACE ± 0.3 0 PLACES ± 0.5 DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			DIMENSION UNITS <b>MM</b>		SCALE <b>1:1</b>		DRWN BY <b>JMARSZALEK</b>		DATE <b>2016/09/16</b>		CHK'D BY <b>RSILLER</b>		DATE <b>2016/12/08</b>		APPR BY <b>RSILLER</b>		DATE <b>2016/12/08</b>		 <b>CSE M12 XP AC FE STR MA STR XM DE</b>			
PRODUCT CUSTOMER DRAWING		SERIES <b>120066</b>		MATERIAL NUMBER <b>SEE PART LIST</b>				CUSTOMER <b>GENERAL MARKET</b>																				
DRAWING SIZE <b>A3</b>				THIRD ANGLE PROJECTION 				DOCUMENT NUMBER <b>1200668084</b>				DOC TYPE <b>PSD</b>		DOC PART <b>000</b>		SHEET NUMBER <b>4 OF 4</b>												

# 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

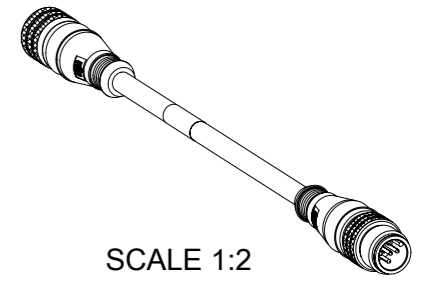
RATED CURRENT: 3, 4, 5 contacts 4A  
 8 contacts 2A

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	---	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 GV = 0 CH = 0 CR = 0 CS = 0 CU = 0 CV = 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			
	GENERAL TOLERANCES (UNLESS SPECIFIED) ANGULAR TOL ± 1.0 °		DRWN BY: JMARSZALEK DATE: 2016/09/19			CSE M12 XP AC FE STR MA STR XM DE
	4 PLACES ± 3 PLACES ± 2 PLACES ± 0.05 1 PLACE ± 0.3 0 PLACES ± 0.5		CHK'D BY: RSILLER DATE: 2016/12/08			
	EC NO: 110836 DRWN: JMARSZALEK CHK'D: RSILLER APPR: RSILLER		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			DRAWING SIZE: A3 THIRD ANGLE PROJECTION
SERIES: 120066 MATERIAL NUMBER: SEE SHEET 3-4 CUSTOMER: GENERAL MARKET			DOCUMENT NUMBER: 1200668165 DOC TYPE: PSD DOC PART: 000 SHEET NUMBER: 1 OF 4			

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

8 8 X 0 3 0 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:  
030=Plug Female Straight  
to Plug Male Straight

Cable type: See Table

Units:  
M=Meter

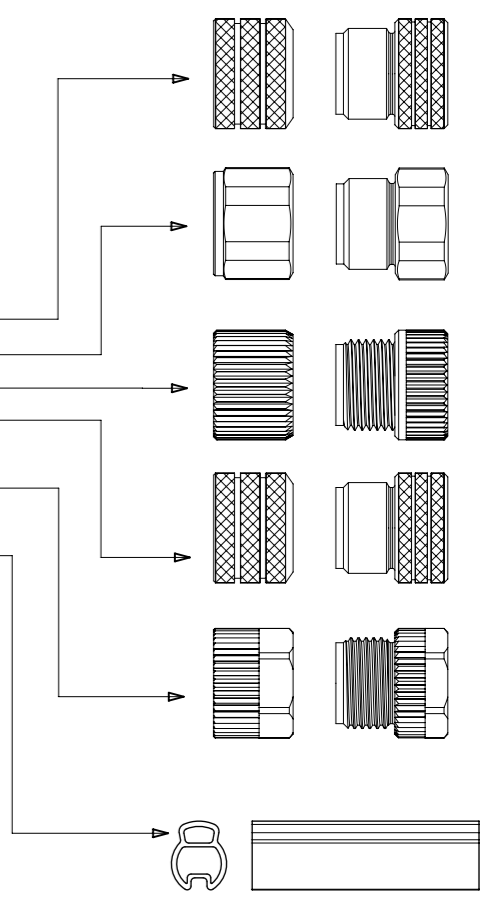
Length  
Examples:  
005=0.5 unit  
010=1 unit  
100=10 units

Coupling Nut:  
Blank (Standard)=Knurled Brass Ni Plated  
1=Hexagonal Stainless steel  
5=Knurled Delrin  
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.)

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  
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
A09	4	22AWG	PVC YELLOW	UL 2661	I/II A/B 80°C/300V	-	-	-	-
B02	4	18AWG	PUR YELLOW	UL 20549	I/II A/B 80°C/300V	-	-	-	-
E52	3 / 4	0.34mm <sup>2</sup>	PVC GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	-
I02	3 / 4 / 8	0.25mm <sup>2</sup>	PVC CEI GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	-
I03	3 / 4 / 5	0.34mm <sup>2</sup>	PVC CEI GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	-
I20	3 / 4	0.34mm <sup>2</sup>	PVC CEI GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	YES
I26	5	0.34mm <sup>2</sup>	PVC CEI GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	YES
K03	4 / 5	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 PLTC	I/II A/B 90°C/300V	max 105°C	-	-	-
P04	4	0.50mm <sup>2</sup>	PUR BLACK	-	-	-40°C to +90°C, >7.5xO.D.	-15°C to +90°C, >12.5xO.D.	-	-
P19	8	0.25mm <sup>2</sup>	PUR BLACK	-	-	-40°C to +90°C, >7.5xO.D.	-15°C to +90°C, >12.5xO.D.	2 000 000 cycles, >15xO.D.	YES
P20	3 / 4 / 5	0.34mm <sup>2</sup>	PUR BLACK LS0H	-	-	-30°C to +80°C	-	-	YES
P82	3 / 4 / 5	0.34mm <sup>2</sup>	PUR IRR ORANGE	-	-	-50°C to +105°C, >5xO.D.	-40°C to +105°C, >7.5xO.D.	-	-
S19	8	0.25mm <sup>2</sup>	PVC YELLOW	UL 2661/1569	C22.2 II A 105°C/300V	-30°C to +105°C, >10xO.D.	-15°C to +105°C, >15xO.D.	-	YES
S20	3 / 4 / 5	0.34mm <sup>2</sup>	PVC YELLOW	UL 2661/1731	C22.2 II A 105°C/300V	-30°C to +105°C	-	-	YES
S26	5	0.34mm <sup>2</sup>	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

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

QUALITY SYMBOLS FA = 0 FE = 0 FB = 0 FV = 0 FC = 0 FX = 0 F█ = 0 F▽ = 0	EC NO: 110836 DRWN: JMARSZALEK CHK'D: APPR: RSILLER	2016/09/19 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		DIMENSION UNITS MM	SCALE 1:1					
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRWN BY JMARSZALEK	DATE 2016/09/19		PRODUCT CUSTOMER DRAWING			
			DRAWING SIZE A3		THIRD ANGLE PROJECTION	CHK'D BY RSILLER		DATE 2016/12/08	SERIES 120066	MATERIAL NUMBER SEE SHEET 3-4	CUSTOMER GENERAL MARKET
			A3			APPR BY RSILLER		DATE 2016/12/08	DOCUMENT NUMBER 1200668165	DOC TYPE PSD	DOC PART 000

# PART LIST

No.	Part No.	Engineering No.	Cable Length
1	1200070023	884030S20M060H	6m
2	1200070095	883030I03M003	0.3m
3	1200070096	883030I03M006	0.6m
4	1200070097	883030I03M010	1m
5	1200070098	883030I03M020	2m
6	1200070099	883030I03M030	3m
7	1200070100	883030I03M050	5m
8	1200070101	883030I03M100	10m
9	1200070110	883030S20M010	1m
10	1200070111	883030S20M020	2m
11	1200070480	884030I03M010	1m
12	1200070481	884030I03M020	2m
13	1200070483	884030I03M050	5m
14	1200070484	884030I03M060	6m
15	1200070485	884030I03M100	10m
16	1200070494	884030P82M0057	0.5m
17	1200070499	884030S20M020	2m
18	1200070500	884030S20M030	3m
19	1200070502	884030S20M050	5m
20	1200070504	884030S20M100	10m
21	1200070597	885030S26M010	1m
22	1200070653	884030E52M200A	20m
23	1200070774	884030I03M006	0.6m
24	1200070785	884030I03M030	3m
25	1200070798	884030P82M010	1m
26	1200070799	884030P82M020	2m
27	1200070867	884030E52M100A	10m
28	1200070890	885030I26M010	1m
29	1200070891	885030I26M020	2m
30	1200070892	885030I26M030	3m
31	1200070937	884030P82M100	10m
32	1200070956	883030E52M020A	2m
33	1200070961	885030I03M030	3m
34	1200071026	884030E52M010A	1m
35	1200071035	884030S20M010H	1m

No.	Part No.	Engineering No.	Cable Length
36	1200071066	884030P82M0067	0.6m
37	1200071067	884030P82M0037	0.3m
38	1200071068	884030P82M0107	1m
39	1200071069	884030P82M0157	1.5m
40	1200071088	884030P82M0207	2m
41	1200071137	884030S20M030H	3m
42	1200071141	884030S20M020H	2m
43	1200071161	884030S20M100H	10m
44	1200071162	884030P82M006	0.6m
45	1200071178	884030S20M006H	0.6m
46	1200071188	884030S20M050H	5m
47	1200071237	884030S20M005H	0.5m
48	1200071238	884030S20M015H	1.5m
49	1200071254	884030P82M050	5m
50	1200071264	884030S20M040H	4m
51	1200071272	884030S20M005	0.5m
52	1200071279	885030I26M050	5m
53	1200071338	884030I20M030	3m
54	1200071343	883030E52M003A	0.3m
55	1200071428	884030P82M0407	4m
56	1200071501	884030P82M003	0.3m
57	1200071580	884030P82M030	3m
58	1200071582	884030P82M015	1.5m
59	1200071624	884030E52M030A	3m
60	1200071627	884030I03M0205	2m
61	1200071647	884030P82M0307	3m
62	1200072106	885030I26M005	0.5m
63	1200072359	885030I26M015	1.5m
64	1200072601	884030P82M0201	2m
65	1200658167	884030P82M0807	8m
66	1200658808	884030P04M100	10m
67	1200660271	884030A09M020	2m
68	1200660273	884030A09M0208	2m
69	1200660277	884030A09M030	3m
70	1200660286	884030A09M0508	5m

No.	Part No.	Engineering No.	Cable Length
71	1200660683	884030K05M003	0.3m
72	1200660684	884030K05M005	0.5m
73	1200660686	884030K05M006	0.6m
74	1200660687	884030K05M010	1m
75	1200660688	884030K05M015	1.5m
76	1200660689	884030K05M020	2m
77	1200660690	884030K05M030	3m
78	1200660691	884030K05M040	4m
79	1200660692	884030K05M050	5m
80	1200660693	884030K05M060	6m
81	1200660694	884030K05M080	8m
82	1200660695	884030K05M100	10m
83	1200660696	884030K05M120	12m
84	1200660697	884030K05M150	15m
85	1200660698	884030K05M180	18m
86	1200660699	884030K05M230	23m
87	1200660700	884030K05M300	30m
88	1200660857	884030B02M020	2m
89	1200660860	884030B02M030	3m
90	1200660862	884030B02M050	5m
91	1200660867	884030B02M100	10m
92	1200660878	884030K03M003	0.3m
93	1200660880	884030K03M006	0.6m
94	1200660881	884030K03M010	1m
95	1200660883	884030K03M020	2m
96	1200660887	884030K03M030	3m
97	1200660891	884030K03M040	4m
98	1200660895	884030K03M050	5m
99	1200660898	884030K03M060	6m
100	1200660899	884030K03M070	7m
101	1200660900	884030K03M080	8m
102	1200660901	884030K03M090	9m
103	1200660902	884030K03M100	10m
104	1200660904	884030K03M120	12m
105	1200660905	884030K03M140	14m

No.	Part No.	Engineering No.	Cable Length
106	1200660906	884030K03M150	15m
107	1200660907	884030K03M160	16m
108	1200660909	884030K03M200	20m
109	1200660911	884030K03M250	25m
110	1200660915	884030K05M070	7m
111	1200660918	884030K05M140	14m
112	1200660921	884030K05M200	20m
113	1200660922	884030K05M210	21m
114	1200661034	885030K03M010	1m
115	1200661035	885030K03M020	2m
116	1200661036	885030K03M030	3m
117	1200661038	885030K03M050	5m
118	1200661042	885030K03M090	9m
119	1200661043	885030K03M100	10m
120	1200661044	885030K03M150	15m
121	1200661434	884030E52M020A	2m
122	1200661438	884030K05M250	25m
123	1200661441	884030K05M190	19m
124	1200661472	884030E52M050A	5m
125	1200661543	884030K03M180	18m
126	1200661574	888030S19M120	12m
127	1200661575	888030S19M030	3m
128	1200661576	888030S19M050	5m
129	1200661577	888030S19M100	10m
130	1200661664	885030K03M005	0.5m
131	1200661685	885030K03M120	12m
132	1200661906	884030K03M500	50m
133	1200665012	885030P82M0307	3m
134	1200665368	884030K05M280	28m
135	1200668001	884030K03M110	11m
136	1200668003	884030K03M005	0.5m
137	1200668004	884030K03M240	24m
138	1200668067	884030P82M0507	5m
139	1200668068	884030S20M010	1m
140	1200668082	885030I26M006	0.6m

<b>QUALITY SYMBOLS</b> 	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										
	2016/09/19	2016/12/08	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION UNITS		SCALE				
	2016/09/19	2016/12/08	ANGULAR TOL ± 1.0 °		MM		1:1				
	EC NO: 110836 DRWN: JMARSZALEK CHK'D: APPR: RSILLER	4 PLACES	±	JMARSZALEK		DATE		2016/09/19		CSE M12 XP AC FE STR MA STR XM DE  PRODUCT CUSTOMER DRAWING	
		3 PLACES	±	CHK'D BY		DATE					
		2 PLACES	± 0.05	APPR BY		DATE		RSILLER 2016/12/08			
		1 PLACE	± 0.3	DRAWING SIZE		THIRD ANGLE PROJECTION		A3			
	0 PLACES	± 0.5	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS						SERIES: 120066 MATERIAL NUMBER: SEE PART LIST CUSTOMER: GENERAL MARKET		
				DOCUMENT NUMBER: 1200668165		DOC TYPE: PSD		DOC PART: 000		SHEET NUMBER: 3 OF 4	

# PART LIST

No.	Part No.	Engineering No.	Cable Length
141	1200668090	885030S26M020H	2m
142	1200668098	888030P19M010	1m
143	1200668099	888030P19M050	5m
144	1200668165	885030I03M100	10m
145	1200668172	883030S20M050	5m
146	1200668187	884030P82M050H	5m
147	1200668252	888030P19M030	3m
148	1200668281	885030I26M025	2.5m
149	1200668310	883030S20M005	0.5m
150	1200668349	884030P82M0101	1m
151	1200668371	883030I03M040	4m
152	1200668372	884030I03M040	4m
153	1200668505	884030P20M010	1m
154	1200668506	884030P20M020	2m
155	1200668507	884030P20M050	5m
156	1200668508	884030P20M100	10m
157	1200668517	884030P82M1007	10m
158	1200668615	884030K05M050H	5m
159	1200668616	884030K05M100H	10m
160	1200668632	883030I03M020Y	2m
161	1200668633	883030I03M030Y	3m
162	1200668634	883030I03M050Y	5m
163	1200668637	884030I03M020Y	2m
164	1200668638	884030I03M100Y	10m
165	1200668639	885030I26M010Y	1m
166	1200668640	885030I26M020Y	2m
167	1200668641	885030I26M030Y	3m
168	1200668642	885030I03M030Y	3m
169	1200668643	884030P82M0067Y	0.6m
170	1200668644	884030P82M0107Y	1m
171	1200668645	884030P82M0207Y	2m
172	1200668696	883030I03M030A	3m
173	1200668697	883030I03M050A	5m
174	1200668698	883030I03M100A	10m
175	1200668699	883030I03M200A	20m

No.	Part No.	Engineering No.	Cable Length
176	1200668735	884030P82M0707Y	7m
177	1200668736	885030I26M015Y	1.5m
178	1200668773	885030P82M0107	1m
179	1200668873	885030I26M050Y	5m
180	1200669113	884030A09M0308	3m
181	1200669118	884030P82M0307Y	3m
182	1200669149	883030I03M010Y	1m
183	1200669218	885030I03M100Y	10m
184	1200669227	884030K05M500	50m
185	1200669228	884030K05M600	60m
186	1200718014	884030P82M0607	6m
187			
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No.	Part No.	Engineering No.	Cable Length
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No.	Part No.	Engineering No.	Cable Length
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<b>QUALITY SYMBOLS</b> 	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										
	2016/09/19 2016/12/08 EC NO: 110836 DRWN: JMARSZALEK CHK'D: APPR: RSILLER	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION UNITS	SCALE	 CSE M12 XP AC FE STR MA STR XM DE PRODUCT CUSTOMER DRAWING					
		ANGULAR TOL ± 1.0 °		MM	1:1						
	4 PLACES ±	DRWN BY		DATE							
	3 PLACES ±	JMARSZALEK		2016/09/19							
	2 PLACES ± 0.05	CHK'D BY		DATE							
	1 PLACE ± 0.3	APPR BY		DATE							
	0 PLACES ± 0.5	RSILLER		2016/12/08							
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DRAWING SIZE	THIRD ANGLE PROJECTION		SERIES: 120066    MATERIAL NUMBER: SEE PART LIST    CUSTOMER: GENERAL MARKET						
		A3			DOCUMENT NUMBER: 1200668165    DOC TYPE: PSD    DOC PART: 000    SHEET NUMBER: 4 OF 4						