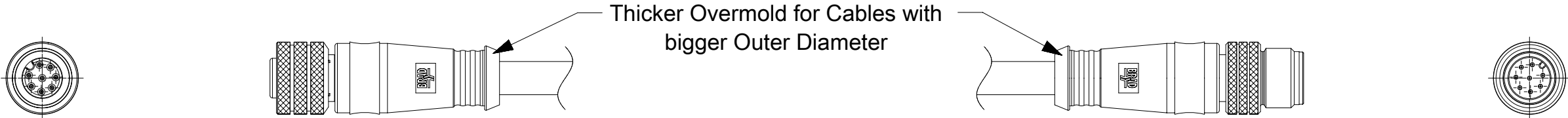
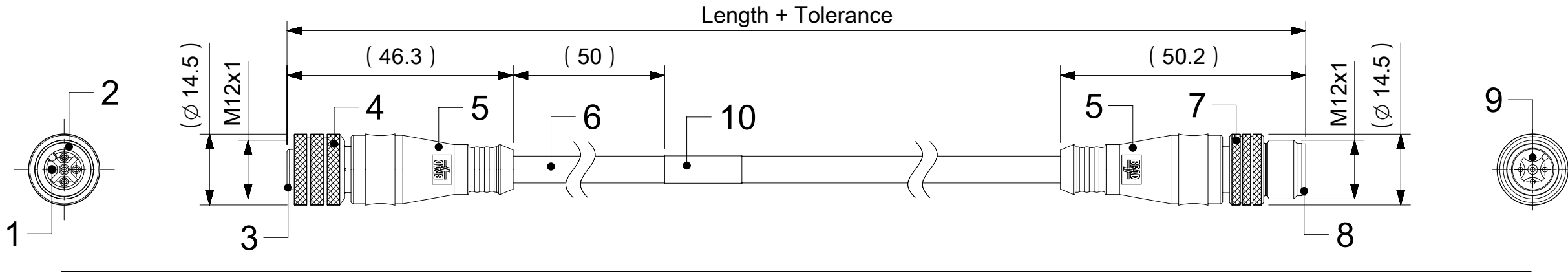


FEMALE PLUG M12 STRAIGHT TO MALE PLUG M12 STRAIGHT



NOTES:

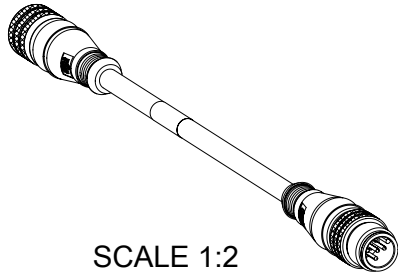
RATED VOLTAGE: 3, 4 contacts 250V per IEC 60664  
5 contacts 60V per IEC 60664  
5 contacts 250V per UL 2238  
8 contacts 30V per IEC 60664

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

10	1	LABEL YELLOW	VINYL	-
9	3 / 4 / 5 / 8	CONTACT MALE	BRASS	SELECTIVE GOLD OVER NICKEL
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	O-RING RED	FPM	-
1	3 / 4 / 5 / 8	CONTACT FEMALE	BRASS	SELECTIVE GOLD OVER NICKEL
ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				
SYMBOLS		CURRENT REV DESC: ADD PN'S		
▽ = 0		<div>molex</div> <div>CSE M12 XP AC FE STR MA STR XM DE</div>		
mm				
1:1				
GENERAL TOLERANCES (UNLESS SPECIFIED)				
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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

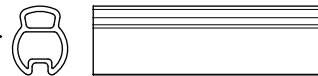
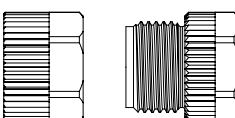
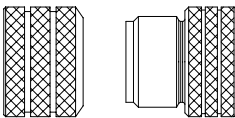
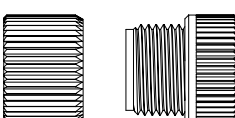
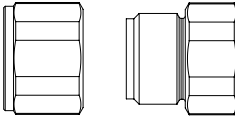
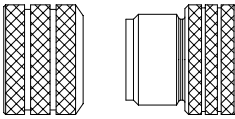
Length  
Examples:  
005=0.5 unit  
010=1 unit  
100=10 units

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  
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 [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

SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION															
 = 0	DIMENSION UNITS		SCALE		CURRENT REV DESC: ADD PN'S					<div>molex</div>						
 = 0	mm		1:1													
 = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 601917 DRWN: FDAFERNER 2018/07/25 CHK'D: RSILLER 2018/07/25 APPR: RSILLER 2018/07/25					CSE M12 XP AC FE STR MA STR XM DE						
 = 0	ANGULAR TOL ± 1.0 °															
 = 0	4 PLACES		±		INITIAL REVISION: DRWN: JMARSZALEK 2016/09/16 APPR: RSILLER 2016/12/08					PRODUCT CUSTOMER DRAWING						
 = 0	3 PLACES		±													
 = 0	2 PLACES		± 0.05		DOCUMENT NUMBER 1200668084					DOC TYPE PSD		DOC PART 000		REVISION A7		
 = 0	1 PLACE		± 0.3													
 = 0	0 PLACES		± 0.5		MATERIAL NUMBER SEE SHEET 3-4					CUSTOMER GENERAL MARKET					SHEET NUMBER 2 OF 4	
 = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS															
= 0					THIRD ANGLE PROJECTION 		DRAWING A3-SIZE		SERIES 120066							

DOCUMENT STATUS	P1	RELEASE DATE	2018/07/25	14:16:26
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	9	8	7	6	5	4	3	2	1			
	PART LIST											
E	No.	MOLEX PN	Engineering No.	Length	No.	MOLEX PN	Engineering No.	Length	No.	MOLEX PN	Engineering No.	Length
	1	1200060049	884030E03M050	5m	36	1200071114	883030P03M020H	2m	106	1200668198	883030H09M050	5m
	2	1200060050	884030P03M015	1.5m	37	1200071122	883030P03M030H	3m	107	1200668208	883030E03M150	15m
	3	1200060051	884030P03M030	3m	38	1200071123	883030P03M010H	1m	108	1200668234	884030H09M020	2m
	4	1200070081	883030E03M006	0.6m	39	1200071131	883030P03M0201	2m	109	1200668238	885030P03M200	20m
	5	1200070083	883030E03M010	1m	40	1200071199	884030E03M200	20m	110	1200668244	884030H09M050	5m
	6	1200070085	883030E03M020	2m	41	1200071273	883030P03M100H	10m	111	1200668288	888030E02M025	2.5m
	7	1200070086	883030E03M0205	2m	42	1200071284	885030P03M100	10m	112	1200668327	888030P02M200	20m
	8	1200070088	883030E03M030	3m	43	1200071288	883030P03M060	6m	113	1200668338	885030E03M006	0.6m
	9	1200070091	883030E03M050	5m	44	1200071408	885030P03M030	3m	114	1200668347	885030E03M100	10m
D	10	1200070092	883030E03M0505	5m	45	1200071500	885030E03M005	0.5m	115	1200668352	888030P02M250	25m
	11	1200070093	883030E03M100	10m	46	1200071583	885030E03M080	8m	116	1200668353	888030P02M350	35m
	12	1200070102	883030P03M003	0.3m	47	1200071594	884030E03M015	1.5m	117	1200668354	888030P02M400	40m
	13	1200070104	883030P03M006	0.6m	48	1200071596	884030E03M060	6m	118	1200668370	883030E03M040	4m
	14	1200070105	883030P03M100	10m	49	1200071703	884030E03M0205	2m	119	1200668373	883030H09M006	0.6m
	15	1200070470	884030E03M003	0.3m	50	1200071707	884030E03M0505	5m	120	1200668374	883030H09M010	1m
	16	1200070472	884030E03M006	0.6m	51	1200071715	884030E03M150	15m	121	1200668375	883030H09M030	3m
	17	1200070473	884030E03M010	1m	52	1200071774	884030E03M020H	2m	122	1200668376	883030H09M040	4m
	18	1200070474	884030E03M020	2m	53	1200071793	884030E03M1501✱	15m	123	1200668377	883030H09M100	10m
	19	1200070475	884030E03M030	3m	54	1200071881	884030E03M1005	10m	124	1200668378	884030H09M006	0.6m
C	20	1200070476	884030E03M100	10m	55	1200071947	885030P03M007	0.7m	125	1200668379	884030H09M010	1m
	21	1200070486	884030P03M003	0.3m	56	1200071948	885030E03M040	4m	126	1200668380	884030H09M040	4m
	22	1200070487	884030P03M006	0.6m	57	1200072010	884030P03M050H	5m	127	1200668381	884030H09M100	10m
	23	1200070488	884030P03M010	1m	58	1200072081	885030E03M035	3.5m	128	1200668384	884030P03M010H	1m
	24	1200070489	884030P03M020	2m	59	1200072092	884030E03M040	4m	129	1200668399	888030E02M0	

No.	MOLEX PN	Engineering No.	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.	MOLEX PN	Engineering No.	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

\* - Part No. with Yellow PVC overmolding

DOCUMENT STATUS	P1	RELEASE DATE	2018/07/25	14:16:26
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PART LIST

No.	MOLEX PN	Engineering No.	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.	MOLEX PN	Engineering No.	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.	MOLEX PN	Engineering No.	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	1200669310	888030H08M005	0.5m
238	1200669311	888030H08M008	0.8m
239	1200669312	888030H08M012	1.2m
240	1200669313	888030H08M015	1.5m
241	1200669314	888030H08C250	0.25m
242	1200669353	888030P02M130	13m
243	1200669423	884030E03M025	2.5m
244	1200669424	884030E03M035	3.5m
245	1200669437	888030H08M200	20m

No.	MOLEX PN	Engineering No.	Length
246	1200669477	888030E02M300	30m
247	1200669478	888030E02M400	40m
248	1200669479	888030E02M500	50m
249	1200669499	883030E03M080	8m
250	1200669500	883030E03M120	12m
251	1200669501	883030E03M140	14m
252	1200669502	883030E03M160	16m
253	1200669503	883030E03M180	18m
254	1200669508	884030E03M080	8m
255	1200669509	884030E03M140	14m
256	1200669510	884030E03M160	16m
257	1200669511	883030E03M060	6m
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NOTES:  
✱ - Part No. with Yellow PVC overmolding

SYMBOLS

▽ = 0

▽ = 0

▽ = 0

▽ = 0

▼ = 0

▽ = 0

☒ = 0

■ = 0

▽ = 0

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

DIMENSION UNITS

SCALE

1:1

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

CURRENT REV DESC: ADD PN'S

EC NO: 601917

DRWN: FDAFERNER 2018/07/25

CHK'D: RSILLER 2018/07/25

APPR: RSILLER 2018/07/25

INITIAL REVISION:

DRWN: JMARSZALEK 2016/09/16

APPR: RSILLER 2016/12/08

THIRD ANGLE PROJECTION

DRAWING

SERIES

DOCUMENT NUMBER

1200668084

DOC TYPE

PSD

DOC PART

000

REVISION

A7

MATERIAL NUMBER

CUSTOMER

SHEET NUMBER

SEE PART LIST

GENERAL MARKET

4 OF 4

DOCUMENT STATUS	P1	RELEASE DATE	2018/07/25	14:16:26
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9	8	7	6	5	4	3	2	1
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E

D

C

B

A

E

D

C

B

A

6

5

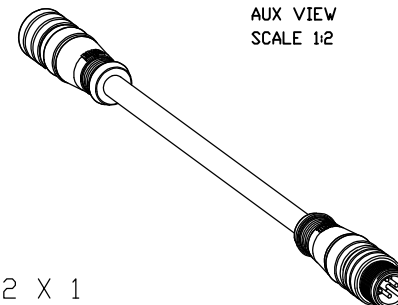
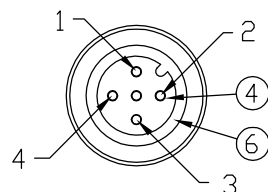
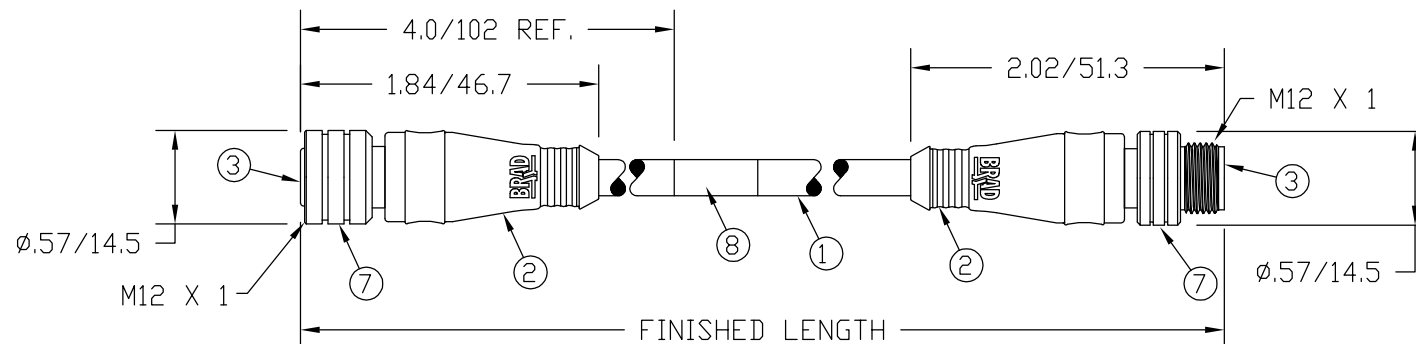
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3

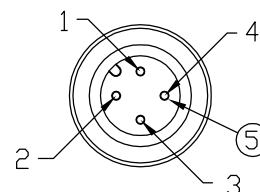
2

1

MATERIAL NUMBER	ENGINEERING NUMBER	FINISHED LENGTH
120007-0487	884030P03M006	.6M +44.5 -0 [1.97' +1.75' -0]
120007-0488	884030P03M010	1.0M +55.6 -0 [3.27' +2.19' -0]
120007-0489	884030P03M020	2.0M +88.9 -0 [6.56' +3.50' -0]
120006-0051	884030P03M030	3.0M +88.9 -0 [9.84' +3.50' -0]
120007-2803	884030P03M040	4.0M +165.1 -0 [13.12' +6.50' -0]
120007-0490	884030P03M050	5.0M +165.1 -0 [16.40' +6.50' -0]

AUX VIEW  
SCALE 1:2

FEMALE FACE VIEW



MALE FACE VIEW

1	BROWN	1
2	WHITE	2
3	BLUE	3
4	BLACK	4

WIRING DIAGRAM

## NOTES:

- 1) MATERIALS: SEE TABLE
- 2) FINISHES: SEE TABLE
- 3) CABLE: #22/4 PUR
- 4) ELECTRICAL DATA:  
MAX. VOLTAGE: 250 VAC/VDC  
MAX. CURRENT 4 AMPS
- 5) ENVIRONMENTAL:  
PROTECTION IP67  
TEMPERATURE RANGE: -20°C TO 80°C
- 6) WRAP LABEL IS MARKED WITH P/N, DATE CODE,  
VOLTAGE & AMPERAGE.
- 7) ASSEMBLY IS RoHS COMPLIANT.


ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH
8	1	LABEL	MYLAR	BLACK/YELLOW
7	2	COUPLER	BRASS	NICKEL PLATED
6	1	O-RING	VITON	RED
5	4	PIN CONTACT	COPPER ALLOY	GOLD OVER NICKEL
4	4	SOCKET CONTACT	COPPER ALLOY	GOLD OVER NICKEL
3	2	INSERT	PUR	BLACK
2	2	OVERMOLD	PUR	YELLOW
1	1	#22/4 CABLE	PUR JACKET	BLACK

RELEASED DRAWING
EC NO.: WEL2010-0054
DRWN: BWOODMAN 8/14/09
CHKD: BWOODMAN 09/07/29
APPR: JFMURPHY 2009/08/21
REV
A

QUALITY SYMBOLS
▽=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)		
	mm	INCH
4 PLACES	±----	±----
3 PLACES	±----	±----
2 PLACES	±----	±.01
1 PLACE	±0.3	±----
ANGULAR ±----°		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

DIMENSION STYLE	
IN/MM	
DRAWN BY	DATE
BWOODMAN	2009/08/14
CHECKED BY	DATE
VOU	2009/08/14
APPROVED BY	DATE
---	---
MATERIAL NO.	SEE TABLE
SIZE	A

SCALE 1:1	DESIGN UNITS INCH		THIRD ANGLE PROJECTION
TITLE			
MICRO-CHANGE CORDSET 4P MA/FE SINGLE KEY #22/4 BLACK PUR CABLE			
	MOLEX INCORPORATED		
DOCUMENT NO.			SHEET NO.
SD-120007-001			1 OF 1
CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX O SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

6

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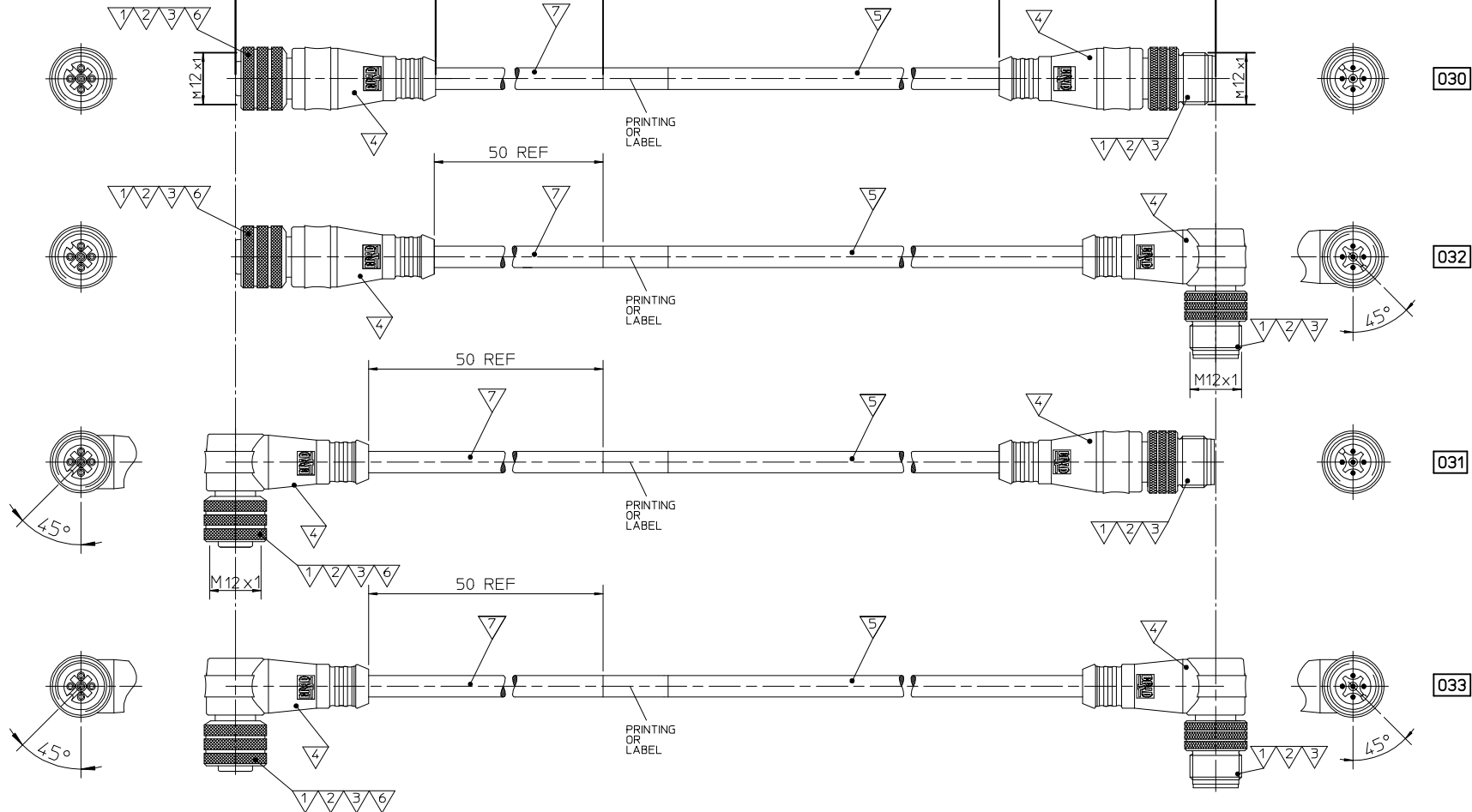
S1

FEMALE SIDES  
FACE VIEWS

FINISHED LENGTH (SEE TABLE)

MALE SIDES  
FACE VIEWS

S2



## CONNECTOR SPECIFICATION:

VOLTAGE RATING	3+4P 250 VAC/VDC / 5P/60V
AMPERAGE RATING	max. 4 AMPS
PROTECTION	IP67
OPERATING TEMPERATURE	-25°C TO 80°C

6	O-RING	VITON	RED
5	CABLE	SEE TABLE	---
4	OVERMOULDING	TPU UF NATURAL C98A10	---
4	OVERMOULDING	MASTERBATCH COLORANT	---
3	COUPLING NUT	SEE SPECIAL TYPES	---
2	PIN CONTACT	COPPER ALLOY	GOLD OR NICKEL PLATED
1	INSERT	PUR	BLACK
ITEM	PART	MATERIAL	FINISH

ORIGINAL RELEASE  
EC NO: IPG2013-1417  
DRWN:MD/SZEWKA 2013/03/11  
CHKD:JMARSZALEK 2013/03/11  
APPR:MIWASIECZKO 2013/03/12

QUALITY  
SYMBOLS  
▽=0  
C=0

GENERAL TOLERANCES  
(UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± ---	± ---
1 PLACE	± ---	± ---
0 PLACE	± ---	± ---

ANGULAR ± ---°  
DRAFT WHERE APPLICABLE  
MUST REMAIN  
WITHIN DIMENSIONS

## DIMENSION STYLE

MM ONLY

DRAWN BY	DATE
HWALCZAK	2012/11/22
CHECKED BY	DATE
JMARSZALEK	2013/01/14
APPROVED BY	DATE
MIWASIECZKO	2013/01/15

MATERIAL NO.

SEE CHART

SIZE  
A3

## SCALE

## DESIGN UNITS

METRIC

FIRST ANGLE  
PROJECTIONCSE M12 XP AC FE MA  
XM DE

molex

DOCUMENT NO.

SD-120066-001

SHEET NO.

1 OF 6

10

9

8

7

6

5

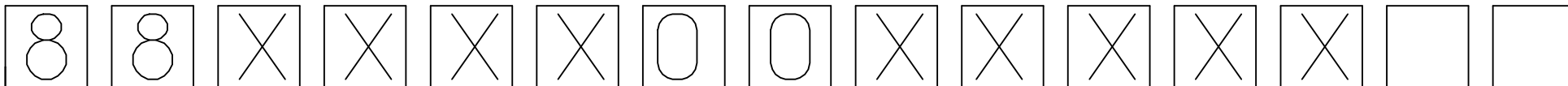
4

3

2

1

SPECIAL TYPES



Thread M12x1 double ended

POLES

3- INSERT 3 POLES  
4- INSERT 4 POLES  
5- INSERT 5 POLES

HEAD TYPE

030 Plugs female and male straight  
031 Plugs female 90° and male straight  
032 Plugs female straight and male 90°  
033 Plugs female and male 90°

CABLE TYPES

E02 = 0,25mm², PVC black  
E03 = 0,34mm², PVC black  
E13 = 0,75mm², PVC yellow  
E52 = 0,34mm², PVC grey (RAL7001)  
E57 = 0,34mm², PVC grey (RAL7001)  
H09 = 0,34mm², PUR black  
H69 = 0,2mm², PUR grey LSOH SCR  
I02 = 0,25mm², PVC grey CEI  
I03 = 0,34mm², PVC grey CEI  
I20 = 0,34mm², PVC grey CEI SCR DC  
I26 = 0,34mm², PVC grey CEI SCR AC  
P02 = 0,25mm², PUR/PVC black  
P03 = 0,34mm², PUR/PVC black  
P08 = 0,25mm², PUR yellow HIFLEX  
P20 = 0,34mm², PUR black LSOH braid  
P82 = 0,34mm², PUR orange irradiated DC  
S20 = 0,34mm², PVC yellow SJTO braid  
S26 = 0,34mm², PVC yellow SJTO braid AC

LENGTH UNIT

C-cm  
M-m  
K-km  
F-feet

LENGTH

Example:  
020 - 2M  
060 - 6M  
100 - 10M

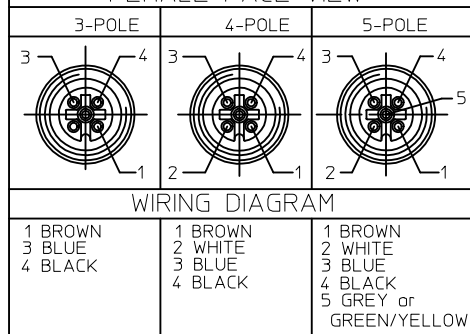
COUPLING NUT

blank and 3-standard (BRASS)  
1 - STAINLESS STEEL  
5 - DELRIN  
7 - TEFLON COAT

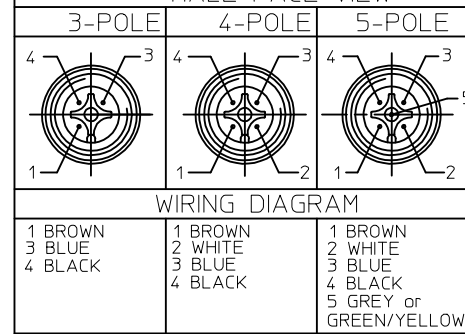
PLUG MATERIAL

blank-standard (BLACK)  
A-GREY  
Y-YELLOW  
H-standard with ID carrier

## FEMALE FACE VIEW



## MALE FACE VIEW



## Tablica tolerancji długości

Table of length tolerances

Powyżej Over	Do-włącznie Up to and including	Tolerancja (±) Tolerance
0	305	+19
305	915	+45
915	1830	+56
1830	3660	+89
3660	7320	+165
7320	14640	+317
14640	30500	+610
30500	>	+2% długości of length

ORIGINAL RELEASE

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CHKD:JMARSZALEK 2013/03/11

APPR:MIWASIECZKO 2013/03/12

DESCRIPTION

REV

QUALITY SYMBOLS  
▽=0  
∇=0GENERAL TOLERANCES  
(UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± ---	± ---
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0 PLACE	± ---	± ---

ANGULAR ±---°  
DRAFT WHERE APPLICABLE  
MUST REMAIN  
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MM ONLY

DRAWN BY	DATE
HWALCZAK	2012/11/22
CHECKED BY	DATE
JMARSZALEK	2013/01/14
APPROVED BY	DATE
MIWASIECZKO	2013/01/15

MATERIAL NO.

SEE CHART

SIZE  
A3THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX  
INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

SCALE

DESIGN UNITS

METRIC

FIRST ANGLE  
PROJECTION

TITLE

CSE M12 XP AC FE MA  
XM DE

molex

DOCUMENT NO.

SD-120066-001

SHEET NO.

2 OF 6

9

8

7

6

5

4

3

2




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tb_frame_A3_P_ME_F Rev E1 2012/01/25	9	8	7	6	5	4	3	2	1																																																																																									

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F	1200071280 1200071318 1200071341 1200071493 1200071575 1200071575 1200071576 1200071577 1200071578 1200071579 1200071581 1200071617 1200071832 1200071833 1200071893 1200071994 1200072011 1200072012 1200072012 1200072030 1200072164 1200072187 1200072220 1200072220 1200072221 1200072221 1200072354 1200072355 1200072355 1200072356 1200072365 1200072376 1200072445 1200072447 1200072447	884031S20M040H 884031P82M0067 884031I20M030 883031P82M050 884031P82M006 884031P82M006 884031P82M010 884031P82M015 884031P82M030 884031P82M050 884031P82M020 883031P09M0205 884031I20M050 884031I20M100 884031S20M100 885031P82M030 884031E03M200 884031P03M100 884031P03M100 884031P09M010 883031E03M040 883031P09M0505 883031A51M020 883031A51M020 883031A51M100 883031A51M100 885031A51M020 885031A51M050 885031A51M050 885031A51M100 884031E03M1501 885031P03M0105 883031E03M020H 883031A51M030 883031A51M030	1200072696 1200072725 1200072726 1200072772 1200072772 1200072779 1200658762 1200658763 1200658764 1200658765 1200658766 1200658767 1200658768 1200659035 1200659070 1200659071 1200659072 1200659115 1200660383 1200665007 1200665037 1200665039 1200665053 1200668052 1200668071 1200668091 1200668175 1200668188 1200668189 1200668191 1200668212 1200668215 1200668221 1200668237 1200668247	883031S20M010H 885031I26M005 885031I26M010 884031H03M009 884031H03M009 884031P09M0405 883031H09M006 883031H09M010 883031H09M020 883031H09M030 883031H09M040 883031H09M050 883031H09M100 883031E02M050 884031I20M010Y 884031I20M015Y 884031I20M020Y 884031I20M005Y 884031S20M010 884031P82M0157 883031P09M015 884031S20M003 884031S20M060H 883031S20M006 884031S20M020 885031P03M025 883031E03M060 885031P03M010 885031E03M010 883031S20M030 884031H09M020 884031H09M030 884031P82M040 883031S20M100 884031P82M005	1200668258 1200668259 1200668273 1200668278 1200668279 1200668287 1200668324 1200668325 1200668326 1200668339 1200668340 1200668348 1200668361 1200668392 1200668484 1200668488 1200668496 1200668512 1200668513 1200668514 1200668515 1200668516 1200668520 1200668531 1200668532 1200668608 1200668610 1200668612 1200668613 1200668635 1200668636 1200668647 1200668653 1200668658 1200668660	883031I03M080 884031I20M003 885031P03M050 885031E03M020 885031E03M050 884031I20M025 883031P03M10G 883031P03M020G 883031P03M030G 885031E03M006 885031E03M030 885031E03M100 884031E03M015 884031P82M060 884031H09M010 884031H09M015 885031H09M010 885031H09M006 885031H09M020 885031H09M030 885031H09M050 885031H09M100 883031P03M070 884031P82M0507 884031P82M1007 883031E02M020 885031E02M050 883031E02M100 883031E02M030 883031E03M010Y 883031E03M020Y 884031P82M0067Y 885031E03M070 885031E02M020 885031E02M100	1200668666 1200668667 1200668669 1200668670 1200668671 1200070026 1200070158 1200070159 1200070160 1200070161 1200070166 1200070171 1200070172 1200070173 1200070174 1200070184 1200070185 1200070547 1200070841 1200070907 1200070914 1200071014 1200071271 1200071277 1200071407 1200071519 1200071520 1200072163 1200072213 1200072294 1200072378 1200072424 1200072577 1200072705 1200072738	884031P82M0107Y 884031I20M030Y 884031H09M006 884031H09M050 884031H09M100 884032P03M020 883032E03M003 883032E03M006 883032E03M010 883032E03M020 883032I03M006 883032P03M006 883032P03M010 883032P03M020 883032S20M010 884032S20M020 884032S20M050 884032P03M050 884032E03M030 885032E03M010 884032E52M020A 884032S20M050 884032P03M050 884032E03M030 885032E03M010 884032E52M010A 884032P03M010 884032P03M006 884032P03M030 884032E03M0501 884032P03M1005 883032P03M0305 883032E03M060 884032I03M003 885032P03M003 883032P03M060 884032A51M050	1200072838 1200072879 1200665032 1200665040 1200668007 1200668053 1200668054 1200668072 1200668073 1200668074 1200668075 1200668076 1200668077 1200668078 1200668092 1200668093 1200668161 1200668173 1200668177 1200668200 1200668205 1200668206 1200668223 1200668267 1200668268 1200668282 1200668290 1200668307 1200668308 1200668309 1200668311 1200668312 1200668341 1200668343 1200668345	884032P03M003 883032H09M010 884032E03M020 884032H69M100 883032I03M010 883032E03M100 883032P03M005 884032E03M006 884032E03M010 884032E03M050 884032E03M100 884032H69M030 884032P82M0037 884032P82M0207 885032E03M020 885032P03M030 884032S20M030 884032E03M1501 884032S20M020 884032E03M1001 883032E03M050 883032E03M150 884032E03M200 884032P82M0107 883032E03M200 884032P82M0157 884032H09M020 884032E03M1005 884032E03M2005 884032E03M1205 884032H69M010 884032H69M050 883032P03M050 884032P82M0067 884032P03M002G	F	E	D	C	B	A
	10	9	8	7	6	5	4	3	2	1						
	fb_frame_A3_P_ME_F Rev E1 2012/01/25	9	8	7	6	5	4	3	2	1						

ORIGINAL RELEASE EC NO: IPG2013-1417 DRWN:MD/SZEWSKA 2013/03/11 CHKD:JMARSZALEK 2013/03/11 APPR:MIWASIECZKO 2013/03/12	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE	DESIGN UNITS METRIC	FIRST ANGLE PROJECTION		
	 = 0  = 0	mm	INCH	DRAWN BY	DATE	TITLE CSE M12 XP AC FE MA XM DE				
		4 PLACES	± ---	± ---	HWALCZAK					
		3 PLACES	± ---	± ---	CHECKED BY	DATE				
		2 PLACES	± ---	± ---	JMARSZALEK	2013/01/14				
	1 PLACE	± ---	± ---	APPROVED BY	DATE	 SD-120066-001				
	0 PLACE	± ---	± ---	MIWASIECZKO	2013/01/15					
	ANGULAR ± --- °		SEE CHART		DOCUMENT NO.		SHEET NO.			
A1	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

10	9	8	7	6	5	4	3	2	1
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1200668493	885032H09M010
1200668494	884032H09M010
1200668522	884032103M020
1200668603	885032P03M020G
1200668663	884032E02M050
1200070187	883033E03M003
1200070190	883033E03M020
1200668685	883033E03M030
1200668668	883033E03M050
1200668398	883033E03M100
1200668649	883033E03M100Y
1200668539	883033E03M150
1200668650	883033E03M150Y
1200668253	883033E03M200
1200668351	883033E13M005
1200668498	883033H09M010
1200070203	883033103M006
1200070204	883033103M010
1200070207	883033103M050
1200070208	883033103M100
1200071856	883033103M1005
1200070209	883033103M150
1200668295	883033P03M003
1200070215	883033P03M006
1200070216	883033P03M010
1200070217	883033P03M020
1200070817	883033P03M050
1200668178	884033E03M003
1200668079	884033E03M006
1200070554	884033E03M010
1200073050	884033E03M0101
1200668192	884033E03M020
1200072331	884033E03M0201
1200070556	884033E03M030
1200070557	884033E03M050

1200073065	884033E03M0501
1200668492	884033H09M010
1200668240	884033H09M020
1200668243	884033H09M050
1200668260	884033I03M010
1200668261	884033I03M020
1200668262	884033I03M0305
1200668263	884033I03M0505
1200668264	884033I03M1005
1200071524	884033P03M006
1200071523	884033P03M010
1200668275	884033P03M015
1200668332	884033P03M020
1200668179	884033P03M020H
1200668217	884033P03M030
1200668298	884033P03M050
1200665041	884033P82M0037
1200071326	884033P82M0067
1200071327	884033P82M0107
1200070565	884033S20M010
1200665402	885033E03M010
1200668529	885033E03M010H
1200668675	885033E03M020
1200668676	885033E03M030
1200668677	885033E03M050
1200668678	885033E03M100
1200668499	885033H09M010
1200668679	885033H09M020
1200668680	885033H09M030
1200668681	885033H09M050
1200668682	885033H09M100
1200668346	885033P03M003
1200668094	885033P03M010
1200072660	885033P03M030
1200072657	885033P03M0755

[illegible]

ADDED NEW P/N's EC NO: IPG2013-1417 DRWIN: MYSZEWSKA 2013/03/11 CHK'D: JMARSZALEK 2013/03/11 APPR: MIWASIECZKO 2013/03/12	DESCRIPTION	QUALITY SYMBOLS  ▼=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE	DESIGN UNITS METRIC	FIRST ANGLE PROJECTION	
				mm	INCH	DRAWN BY	DATE	TITLE CSE M12 XP AC FE MA XM DE		
			4 PLACES	± ---	± ---	HWALCZAK	2012/11/22			
			3 PLACES	± ---	± ---	CHECKED BY	DATE			
			2 PLACES	± ---	± ---	JMARSZALEK	2013/01/14			
			1 PLACE	± ---	± ---	APPROVED BY	DATE			
			0 PLACE	± ---	± ---	MIWASIECZKO	2013/01/15			
			ANGULAR ±---°		MATERIAL NO.		DOCUMENT NO.			SHEET NO.
			DRAFT WHERE APPLICABLE		SEE CHART		SD-120066-001			6 OF 6
			MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					