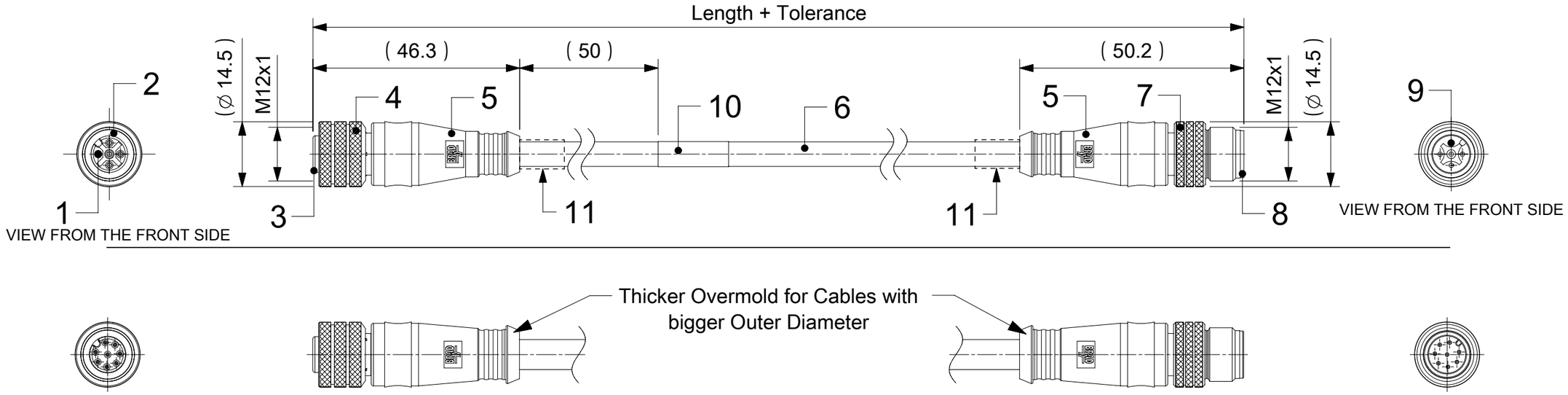
FEMALE PLUG M12 STRAIGHT TO MALE PLUG M12 STRAIGHT



NOTES:

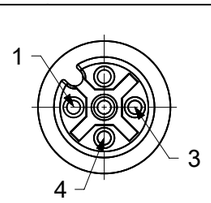
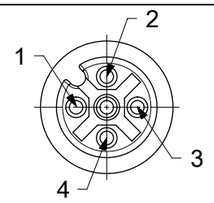
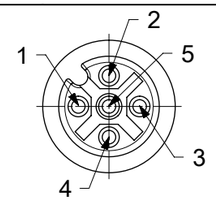
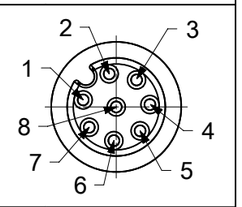
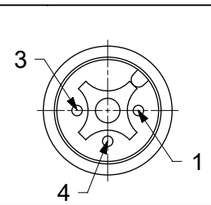
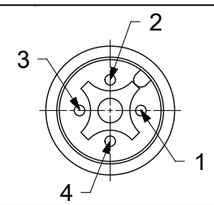
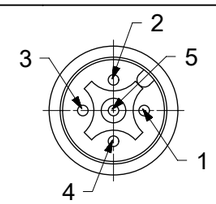
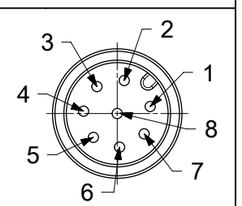
RATED VOLTAGE: 3, 4 contacts 250V per IEC 60664
5 contacts 60V per IEC 60664
5 contacts 250V per UL 2238
8 contacts 30V per IEC 60664

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

PROTECTION CLASS: IP 67

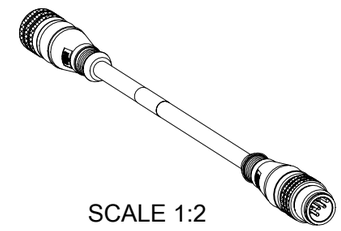
TEMPERATURE: -25°C / +85°C

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
							8	RED

CODING REQUIRED TO IEC 61076-2-101



SCALE 1:2

FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH
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

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FUNCTIONAL SYMBOLS: FA = 0, FC = 0, FD = 0

DIVISIONAL SYMBOLS

DIMENSION UNITS: mm | 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: ADDED NEW PNS

EC NO: 692872
DRWN: MDHARMANTI 2021/12/02
CHK'D: RSILLER 2022/01/24
APPR: RSILLER 2022/01/24

INITIAL REVISION:
DRWN: JMARSZALEK 2016/09/16
APPR: RSILLER 2016/12/08

molex

CSE M12 XP AC FE STR MA STR XM DE

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1200668084	PSD	000	A14

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 120066 | MATERIAL NUMBER: SEE SHEET 3-4 | CUSTOMER: GENERAL MARKET | SHEET NUMBER: 1 OF 4

DOCUMENT STATUS	P1	RELEASE DATE	2022/01/24 16:46:28

FORMAT: master-lb-prod-A3
REVISION: J1
DATE: 2021/05/01

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

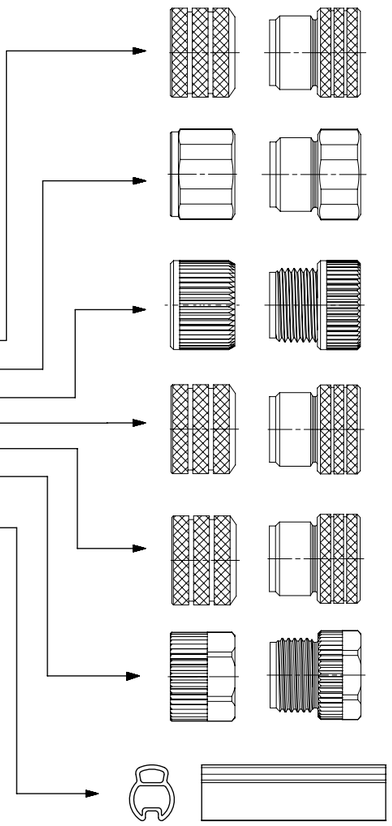
OPTIONS

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

- 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

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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

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INITIAL REVISION:

DRWN: JMARSZALEK 2016/09/16

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molex

CSE M12 XP AC FE STR MA STR XM DE

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1200668084	PSD	000	A14

THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	A3-SIZE	120066	SEE SHEET 3-4	GENERAL MARKET	2 OF 4

DOCUMENT STATUS	P1	RELEASE DATE	2022/01/24 16:46:28

FORMAT: master-tb-prod-A3
REVISION: J1
DATE: 2021/05/01

PART LIST

No.	MOLEX PN	Engineering No.	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
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
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	1200668062	884030E03M010H	1m
95	1200668084	885030P03M010	1m
96	1200668086	885030P03M0283	2.8m
97	1200668088	885030P03M070	7m
98	1200668163	885030P03M040	4m
99	1200668174	884030H09M030	3m
100	1200668234	884030H09M020	2m
101	1200668238	885030P03M200	20m
102	1200668244	884030H09M050	5m
103	1200668288	888030E02M025	2.5m
104	1200668327	888030P02M200	20m
105	1200668338	885030E03M006	0.6m
106	1200668347	885030E03M100	10m
107	1200668352	888030P02M250	25m
108	1200668353	888030P02M350	35m
109	1200668354	888030P02M400	40m
110	1200668370	883030E03M040	4m
111	1200668373	883030H09M006	0.6m
112	1200668374	883030H09M010	1m
113	1200668375	883030H09M030	3m
114	1200668376	883030H09M040	4m
115	1200668377	883030H09M100	10m
116	1200668378	884030H09M006	0.6m
117	1200668379	884030H09M010	1m
118	1200668380	884030H09M040	4m
119	1200668381	884030H09M100	10m
120	1200668399	888030E02M003	0.3m
121	1200668486	884030H09M023	2.3m
122	1200668487	885030E03M200	20m
123	1200668491	888030H08M010	1m
124	1200668497	885030H09M010	1m
125	1200668500	885030H09M020	2m
126	1200668501	885030H09M050	5m
127	1200668502	885030H09M092	9.2m
128	1200668509	885030H09M006	0.6m
129	1200668510	885030H09M030	3m
130	1200668511	885030H09M100	10m
131	1200668521	885030E03M250	25m
132	1200668528	885030E03M020H	2m
133	1200668530	885030E03M010H	1m
134	1200668543	888030P02M450	45m
135	1200668544	888030P02M500	50m
136	1200668548	884030H09M006H	0.6m
137	1200668549	884030H09M010H	1m
138	1200668550	884030H09M050H	5m
139	1200668602	885030P03M020G	2m
140	1200668609	885030E02M050	5m

NOTES:

* - Part No. with Yellow PVC overmolding

DOCUMENT STATUS	P1	RELEASE DATE	2022/01/24 16:46:28

FORMAT: master-lb-prod-A3
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DIVISIONAL SYMBOLS

DIMENSION UNITS	SCALE
mm	1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	± 1.0 °
4 PLACES	±
3 PLACES	±
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DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: ADDED NEW PNS

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molex

CSE M12 XP AC FE STR MA STR XM DE

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1200668084	PSD	000	A14

THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	A3-SIZE	120066	SEE PART LIST	GENERAL MARKET	3 OF 4

PART LIST

No.	MOLEX PN	Engineering No.	Length
141	1200668646	883030P03M030HY	3m
142	1200668652	885030E03M070	7m
143	1200668656	885030E02M100	10m
144	1200668657	885030E02M020	2m
145	1200668661	884030E02M0031	*0.3m
146	1200668662	883030E02M006	0.6m
147	1200668664	885030E02M010	1m
148	1200668672	884030E03M0051	*0.5m
149	1200668674	885030E03M150	15m
150	1200668683	885030H09M150	15m
151	1200668684	885030H09M200	20m
152	1200668687	884030P03M005	0.5m
153	1200668689	884030H08M030	3m
154	1200668690	883030P03M020YH	2m
155	1200668691	883030P03M010YH	1m
156	1200668712	883030P03M100HY	10m
157	1200668713	883030P03M050HY	5m
158	1200668714	884030H09M0209	2m
159	1200668715	884030H09M003	0.3m
160	1200668718	884030E03M250	25m
161	1200668719	884030E03M300	30m
162	1200668720	884030P03M150	15m
163	1200668721	884030P03M250	25m
164	1200668722	884030P03M300	30m
165	1200668723	884030P03M350	35m
166	1200668724	884030P03M400	40m
167	1200668737	884030H09M055	5.5m
168	1200668754	884030P03M020H	2m
169	1200668765	885030P03M015	1.5m
170	1200668770	884030E03M350	35m
171	1200668771	884030E03M400	40m
172	1200668774	888030H08M100	10m
173	1200668775	885030P03M300	30m
174	1200668777	888030E02M020	2m
175	1200668778	888030E02M030	3m

No.	MOLEX PN	Engineering No.	Length
176	1200668779	888030E02M050	5m
177	1200668780	888030E02M100	10m
178	1200668784	885030E03M300	30m
179	1200668785	885030E03M350	35m
180	1200668786	884030E03M070	7m
181	1200668794	885030P03M006H	0.6m
182	1200668795	885030P03M010H	1m
183	1200668796	885030P03M030H	3m
184	1200668797	885030P03M050H	5m
185	1200668798	885030P03M100H	10m
186	1200668800	885030P03M200H	20m
187	1200668801	885030P03M300H	30m
188	1200668802	885030P03M350H	35m
189	1200668803	888030P02M010H	1m
190	1200668804	888030P02M020H	2m
191	1200668805	888030P02M030H	3m
192	1200668806	888030P02M050H	5m
193	1200668807	888030P02M100H	10m
194	1200668808	888030P02M150H	15m
195	1200668809	888030P02M200H	20m
196	1200668810	888030P02M350H	35m
197	1200668815	884030P03M0805	8m
198	1200668853	885030H09M040	4m
199	1200668854	885030H09M060	6m
200	1200668903	885030P03C130	0.13m
201	1200668972	885030E03M003	0.3m
202	1200668973	885030E03M025	2.5m
203	1200668980	885030E03M080H	8m
204	1200668981	885030E03M040H	4m
205	1200668982	885030E03M060H	6m
206	1200668985	885030E03M030H	3m
207	1200669111	885030P03M150H	15m
208	1200669117	888030H08M040	4m
209	1200669133	888030P02M3008	30m
210	1200669134	883030H09M015	1.5m

No.	MOLEX PN	Engineering No.	Length
211	1200669135	883030H09M200	20m
212	1200669153	883030E03M0101	1m
213	1200669161	888030H08M150	15m
214	1200669212	888030H08M050	5m
215	1200669310	888030H08M005	0.5m
216	1200669311	888030H08M008	0.8m
217	1200669312	888030H08M012	1.2m
218	1200669313	888030H08M015	1.5m
219	1200669314	888030H08C250	0.25m
220	1200669353	888030P02M130	13m
221	1200669423	884030E03M025	2.5m
222	1200669424	884030E03M035	3.5m
223	1200669437	888030H08M200	20m
224	1200669477	888030E02M300	30m
225	1200669478	888030E02M400	40m
226	1200669479	888030E02M500	50m
227	1200669499	883030E03M080	8m
228	1200669500	883030E03M120	12m
229	1200669501	883030E03M140	14m
230	1200669502	883030E03M160	16m
231	1200669503	883030E03M180	18m
232	1200669508	884030E03M080	8m
233	1200669509	884030E03M140	14m
234	1200669510	884030E03M160	16m
235	1200669511	883030E03M060	6m
236	1200669561	883030E02M050	5m
237	1200669350	883030H09M030H	3m
238	1200669609	883030E02M0201	2m
239	1200669717	884030P03M080	8m
240	1200669522	883030E03M200	20m
241	1200669523	883030E03M250	25m
242	1200669752	884030H09M015H	1.5m
243	1200669759	884030H09M020H	2.0m
244	1200669753	884030H09M025H	2.5m
245	1200669758	884030H09M030H	3.0m

No.	MOLEX PN	Engineering No.	Length
246	1200669754	884030H09M035H	3.5m
247	1200669760	884030H09M040H	4.0m
248	1200669755	884030H09M045H	4.5m
249	1200669764	884030H09M055H	5.5m
250	1200669761	885030H09M010H	1.0m
251	1200669756	885030H09M015H	1.5m
252	1200669762	885030H09M020H	2.0m
253	1200669757	885030H09M025H	2.5m
254	1200669763	885030H09M030H	3.0m
255	1200669878	884030E03M002H	0.2m
256	1200669879	884030E03M004H	0.4m
257	1200669880	884030E03M009H	0.9m
258	1200669881	884030E03M013H	1.3m
259	1200669882	884030E03M016H	1.6m
260	1200669883	884030E03M180H	18m
261	1200669884	884030E03M800H	80m
262	1200669905	885030E03M085H	8.5m
263	1200669906	885030E03M090H	9m
264	1200669907	885030E03M110H	11m
265	1200669926	884030H09M065H	6.5m
266	1200669927	884030H09M070H	7.0m
267	1200669931	884030H09M075H	7.5m
268	1200669932	884030H09M080H	8.0m
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NOTES:

* - Part No. with Yellow PVC overmolding

FUNCTIONAL SYMBOLS
FA = 0
FC = 0
FB = 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
mm	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: ADDED NEW PNS

EC NO: 692872
DRWN: MDHARMANTI 2021/12/02
CHK'D: RSILLER 2022/01/24
APPR: RSILLER 2022/01/24

INITIAL REVISION:
DRWN: JMARSZALEK 2016/09/16
APPR: RSILLER 2016/12/08

molex

CSE M12 XP AC FE STR MA STR XM DE

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1200668084	PSD	000	A14

THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	A3-SIZE	120066	SEE PART LIST	GENERAL MARKET	4 OF 4

DOCUMENT STATUS	P1	RELEASE DATE	2022/01/24 16:46:28

FORMAT: master-tb-prod-A3
REVISION: J1
DATE: 2021/05/01