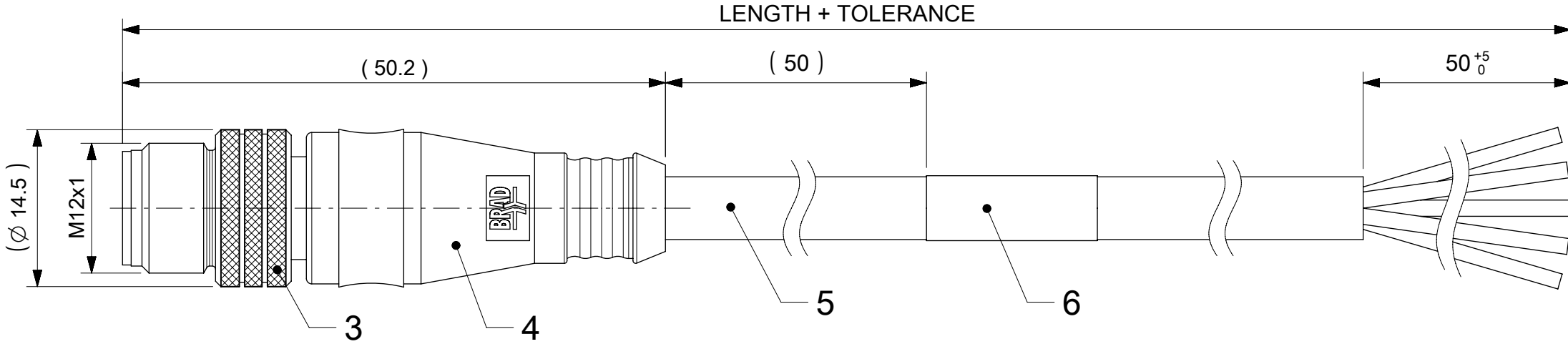
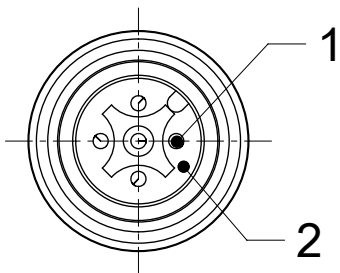
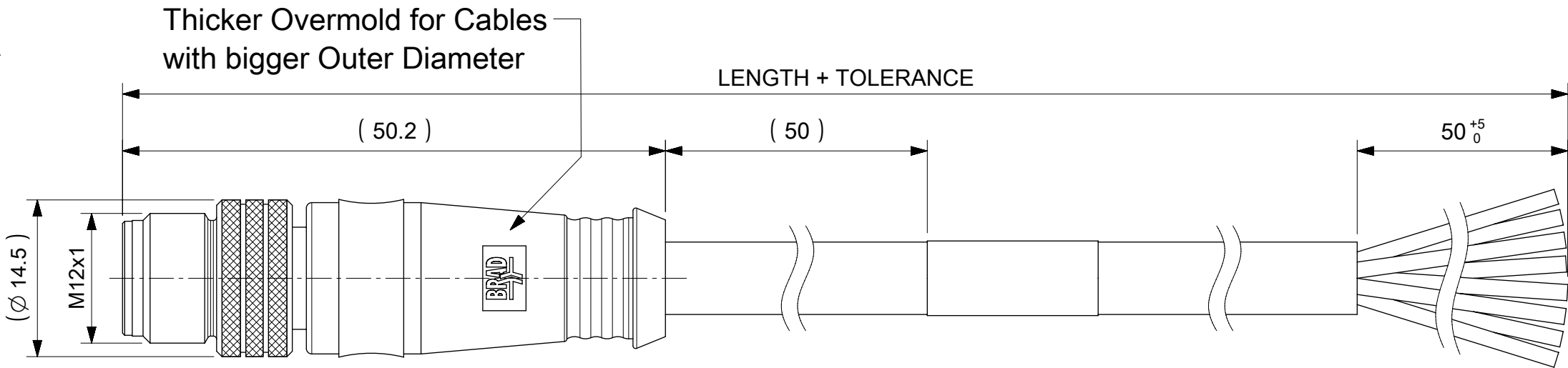
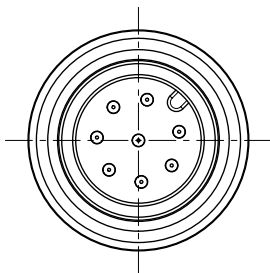


MALE PLUG M12 STRAIGHT



NOTES:
RATED VOLTAGE: 3, 4 contacts 250V
5 contacts 60V
8 contacts 30V
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	
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

7	SEE MATRIX	D CARRIER	PVC	TRANSPARENT
6	1	LABEL YELLOW	VINYL	---
5	-	CABLE	SEE SHEET 2	---
4	-	OVERMOLDING BLACK	TPU	---
3	1	COUPLING NUT MALE	BRASS	NICKEL
2	1	INSERT MALE BLACK	PUR	---
1	3 / 4 / 5 / 8	CONTACT M12 MALE	BRASS	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																
	DIMENSION UNITS		SCALE		CURRENT REV DESC:												
DIVISIONAL SYMBOLS	mm		2:1								molex CSE M12 XP AC MA STR XM SE UNSH PRODUCT CUSTOMER DRAWING DOCUMENT NUMBER 1200659185 DRAWING A3-SIZE SERIES 120065 DRAWING TYPE SEE TABLE CUSTOMER GENERAL MARKET DRAWING SHEET 1 OF 4						
	GENERAL TOLERANCES (UNLESS SPECIFIED)																
	ANGULAR TOL ± 1.0 °																
	4 PLACES		±		EC NO: 703046		2022/04/12										
	3 PLACES		±		DRWN: APAWLAK01		2022/04/14										
	2 PLACES		± 0.05		CHK'D: RSILLER		2022/04/14										
INITIAL REVISION:	1 PLACE		± 0.3		APPR: RSILLER		2022/04/14										
	0 PLACES		± 0.5		DRWN: JMARSZALEK		2016/01/12										
					APPR: RSILLER		2016/04/08										
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER			
								A3-SIZE		120065		SEE TABLE		GENERAL MARKET		1 OF 4	

ENGINEERING NO. - NUMERICAL CODE (Available parts see PART LIST table. Others on request).

OPTIONS

80X006XXXXXX

80=M12x1
Single ended

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

Heads style:
006=Plug Male Straight

Cable type: See Table

Units:
M=Meter

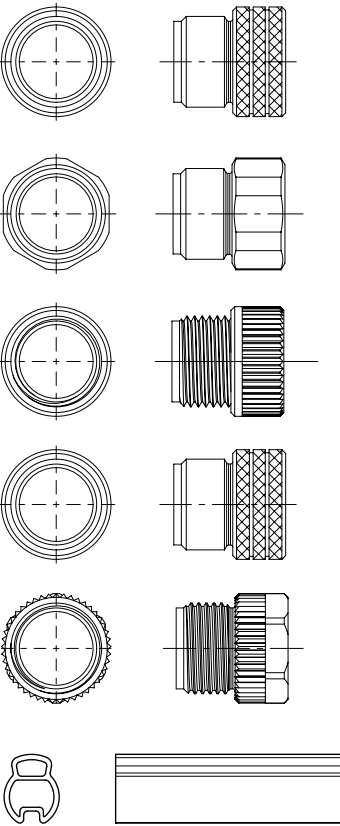
Length
Examples:
005=0.5 unit
010=1 unit
100=10 units

Overmold color:
Blank (Standard)=Black
A=Grey / G=Black / Y=Yellow
For Cable A09=Yellow

Coupling Nut:
Blank (Standard) & 3=Knurled Brass Ni Plated
1 or 8=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

H= 2 pcs. of I/D Carrier PVC Transparent

COUPLING NUTS

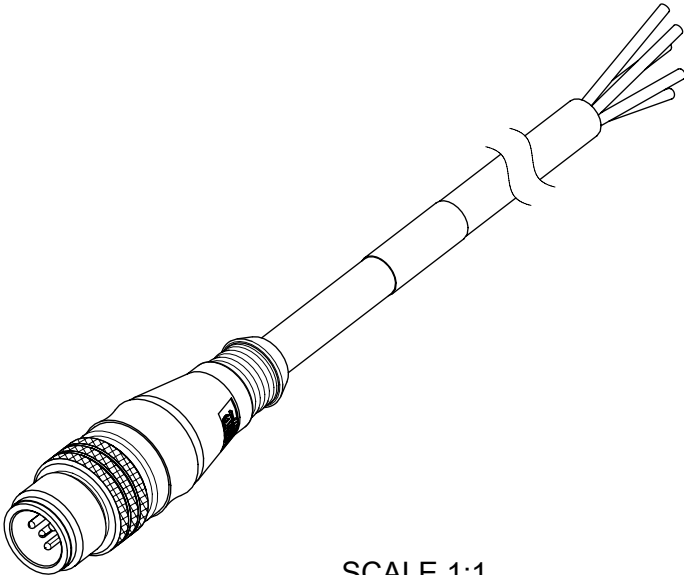


CABLE INFORMATION (for more information see Cable Data Sheet).

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.	-	-
A09	3	0.34mm²	PVC YELLOW	-	-	-	-	-	-
K03	5	0.82mm²	TPE YELLOW	-	-	-	-	-	-
K05	4	0.38mm²	TPE YELLOW	-	-	-	-	-	-

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



SCALE 1:1

FUNCTIONAL SYMBOLS

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EC NO: 703046

DRWN: APAWLAK01

CHK'D: RSILLER

APPR: RSILLER

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2022/04/14

2016/01/12

2016/04/08

INITIAL REVISION:

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APPR: RSILLER

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PART LIST																																							
F	No.	Part No.	Engineering No.	Cable Length	No.	Part No.	Engineering No.	Cable Length	No.	Part No.	Engineering No.	Cable Length	No.	Part No.	Engineering No.	Cable Length	No.	Part No.	Engineering No.	Cable Length	No.	Part No.	Engineering No.	Cable Length	No.	Part No.	Engineering No.	Cable Length	No.	Part No.	Engineering No.	Cable Length							
	1	1200060046	804006E03M120	12m	36	1200062596	805006E03M003	0.3m	71	1200652157	805006P03M040	4m	106	1200658612	803006P03M040	4m	1	1200060047	804006P03M050	5m	37	1200062631	805006P03M120	12m	72	1200652158	805006P03M100	10m	107	1200658613	803006P03M100	10m							
	2	1200060240	803006E03M020	2m	38	1200062799	805006E03M010	1m	73	1200655011	805006P03M005	0.5m	108	1200658653	803006H09M010	1m	2	1200060241	803006E03M050	5m	39	1200062830	804006E03M0205	2m	74	1200655051	805006E03M006	0.6m	109	1200658654	803006H09M015	1.5m							
	3	1200060242	803006E03M100	10m	40	1200062877	804006E03M0505	5m	75	1200658016	808006P02M060	6m	110	1200658655	803006H09M020	2m	3	1200060256	803006P03M002	0.2m	41	1200062920	804006E03M1005	10m	76	1200658055	803006P03M003	0.3m	111	1200658656	803006H09M030	3m							
	4	1200060257	803006P03M020	2m	42	1200063018	803006P03M0303	3m	77	1200658057	803006P03M035	3.5m	112	1200658657	803006H09M040	4m	4	1200060260	803006P03M030	3m	43	1200063077	804006E02M005	0.5m	78	1200658076	804006P03M0505	5m	113	1200658658	808006H08M010	1m							
	5	1200060261	803006P03M050	5m	44	1200063470	804006E03M010H	1m	79	1200658092	805006P03M010	1m	114	1200658659	808006H08M015	1.5m	5	1200060262	803006P03M002	0.2m	45	1200063472	804006P03M200	20m	80	1200658109	808006P02M003	0.3m	115	1200658660	808006H08M020	2m							
	6	1200060257	803006P03M020	2m	46	1200063731	805006P03M0065	0.6m	81	1200658110	808006P02M150	15m	116	1200658661	808006H08M030	3m	6	1200060261	803006P03M050	5m	47	1200063732	804006E03M0501	5m	82	1200658181	808006P02M010	1m	117	1200658662	808006H08M040	4m							
	7	1200060260	803006P03M030	3m	48	1200063733	804006E03M1001	✱ 10m	83	1200658209	805006E03M0061	✱ 0.6m	118	1200658663	808006H08M050	5m	7	1200060261	803006P03M050	5m	49	1200063856	804006E03M1501	✱ 15m	84	1200658217	805006P03M090	9m	119	1200658727	804006H09M010	1m							
	8	1200060260	803006P03M030	3m	50	1200063941	804006P03M0401	4m	85	1200658223	808006E02M003	0.3m	120	1200658728	804006H09M015	1.5m	8	1200060261	803006P03M050	5m	51	1200063953	805006E03M035	3.5m	86	1200658226	808006E02M0038	0.3m	121	1200658729	804006H09M020	2m							
	9	1200060261	803006P03M050	5m	52	1200063969	804006E03M2001	✱✱ 20m	87	1200658247	803006H09M100	10m	122	1200658730	804006H09M030	3m	9	1200060261	803006P03M050	5m	53	1200064160	803006P03M005	0.5m	88	1200658248	803006H09M050	5m	123	1200658731	804006H09M040	4m							
E	10	1200060558	804006E03M006	0.6m	54	1200064231	804006E03M2501	✱ 25m	89	1200658263	808006H08M100	10m	124	1200658732	804006H09M050	5m	10	1200060261	803006P03M050	5m	55	1200064240	804006P03M070	7m	90	1200658463	804006P03M150	15m	125	1200658733	804006H09M100	10m							
	11	1200060559	804006E03M010	1m	56	1200064251	804006E03M003	0.3m	91	1200658478	808006E02M040	4m	126	1200658741	805006H09M010	1m	11	1200060261	803006P03M050	5m	57	1200064252	804006E03M005	0.5m	92	1200658500	805006E03M1001	10m	127	1200658742	805006H09M015	1.5m							
	12	1200060560	804006E03M020	2m	58	1200064261	804006P03M011	1.1m	93	1200658518	804006E03M0201H	2m	128	1200658743	805006H09M020	2m	12	1200060261	803006P03M050	5m	59	1200064347	804006P03M007	0.7m	94	1200658519	804006E03M0501H	5m	129	1200658744	805006H09M030	3m							
	13	1200060561	804006E03M030	3m	60	1200064353	803006E03M003	0.3m	95	1200658526	803006E03M005	0.5m	130	1200658745	805006H09M040	4m	13	1200060261	803006P03M050	5m	61	1200064393	804006P03M020G	2m	96	1200658542	804006E03M070	7m	131	1200658746	805006H09M050	5m							
	14	1200060562	804006E03M050	5m	62	1200064464	803006P03M005G	0.5m	97	1200658546	808006E02M050	5m	132	1200658747	805006H09M100	10m	14	1200060261	803006P03M050	5m	63	1200065002	805006P03M0201	2m	98	1200658552	808006E02M0031	0.3m	133	1200658784	804006E03M0101H	1m							
	15	1200060563	804006E03M100	10m	64	1200650964	808006P02M020	2m	99	1200658565	803006E03M010	1m	134	1200658785	804006E03M1001H	10m	15	1200060261	803006P03M050	5m	65	1200650967	808006P02M040	4m	100	1200658566	803006E03M040	4m	135	1200658814	808006H08M025	2.5m							
	16	1200060570	804006P03M020	2m	66	1200650968	808006P02M050	5m	101	1200658571	804006E03M040	4m	136	1200658815	808006E02M003G	0.3m	16	1200060261	803006P03M050	5m	67	1200650969	808006P02M100	10m	102	1200658576	808006E02M010	1m	137	1200658859	808006E02M0061G	0.6m							
	17	1200060571	804006P03M030	3m	68	1200650970	808006P02M200	20m	103	1200658577	808006E02M020	2m	138	1200658876	804006E03M150	15m	17	1200060261	803006P03M050	5m	69	1200651763	808006P02M030	3m	104	1200658578	808006E02M030	3m	139	1200658881	803006E03M050G	5m							
	18	1200060572	804006P03M100	10m	70	1200652141	804006P03M040	4m	105	1200658579	808006E02M100	10m	140	1200658888	804006E03M020H	2m	18	1200060261	803006P03M050	5m	7	1200062560	808006P02M005	0.5m															
	D	19	1200060667	805006E03M020	2m																																		
20		1200060668	805006E03M030	3m																																			
21		1200060680	805006P03M020	2m																																			
22		1200060682	805006P03M050	5m																																			
23		1200061345	805006E03M050	5m																																			
24		1200061611	803006E03M150	15m																																			
25		1200061633	804006P03M010	1m																																			
26		1200061853	803006P03M010	1m																																			
27		1200061855	804006P03M006	0.6m																																			
28		1200062017	803006E03M030	3m																																			
29	1200062082	805006P03M060	6m																																				
C	30	1200062122	804006E03M0201	✱ 2m																																			
	31	1200062209	805006E03M100	10m																																			
	32	1200062351	803006E03M0505	5m																																			
	33	1200062352	803006E03M1005	10m																																			
	34	1200062426	804006E03M200	20m																																			
	35	1200062560	808006P02M005	0.5m																																			
B																																							

PART LIST

No.	Part No.	Engineering No.	Cable Length
141	1200658890	804006H09M003	0.3m
142	1200658892	803006H09M003	0.3m
143	1200658893	804006E03M050H	5m
144	1200658895	804006H09M200	20m
145	1200658897	805006E03M200	20m
146	1200658913	805006P03M030	3m
147	1200658918	808006E02M005H	0.5m
148	1200658919	808006E02M010H	1m
149	1200659034	804006E02M050	5m
150	1200659036	804006E02M070	7m
151	1200659037	804006E02M100	10m
152	1200659041	808006E02M005	0.5m
153	1200659080	804006E03M020Y	2m
154	1200659104	803006E03M010Y	1m
155	1200659109	804006E02M020	2m
156	1200659110	808006E02M0501	✱ 5m
157	1200659111	803006E02M050	5m
158	1200659141	805006H09M200	20m
159	1200659142	805006H09M300	30m
160	1200659145	805006E03M300	30m
161	1200659149	805006H09M005	0.5m
162	1200659154	804006P03M100Y	10m
163	1200659178	804006P03M075	7.5m
164	1200659179	804006P03M015	1.5m
165	1200659185	805006E03M080	8m
166	1200659186	804006E03M060	6m
167	1200659190	804006P03M250	25m
168	1200659191	804006P03M300	30m
169	1200659192	804006P03M350	35m
170	1200659193	804006P03M400	40m
171	1200659194	804006E03M250	25m
172	1200659195	804006E03M300	30m
173	1200659196	804006E03M350	35m
174	1200659197	804006E03M400	40m
175	1200659198	804006E03M450	45m

No.	Part No.	Engineering No.	Cable Length
176	1200659224	805006P03M200	20m
177	1200659225	805006P03M300	30m
178	1200659254	804006E03M500	50m
179	1200659281	805006P03M150	15m
180	1200659284	808006E02M150	15m
181	1200659285	805006E03M150	15m
182	1200659316	805006P03M005H	0.5m
183	1200659317	805006P03M007H	0.7m
184	1200659318	805006P03M010H	1m
185	1200659319	805006P03M020H	2m
186	1200659320	805006P03M050H	5m
187	1200659321	805006P03M100H	10m
188	1200659322	805006P03M150H	15m
189	1200659323	805006P03M200H	20m
190	1200659324	805006P03M300H	30m
191	1200659325	805006P03M350H	35m
192	1200659367	805006E03M015	1.5m
193	1200659454	805006E03M045	4.5m
194	1200659455	805006E03M075	7.5m
195	1200659513	805006E03M030H	3m
196	1200659514	805006E03M045H	4.5m
197	1200659515	805006E03M075H	7.5m
198	1200659550	804006E03M120H	12m
199	1200659551	805006E03M010H	1m
200	1200659557	804006P03M003	0.3m
201	1200659612	804006P03M080	8m
202	1200659692	803006E02M020	2m
203	1200659983	804006E02M075	7.5m
204	1200659991	804006E02M0705	7m
205	1200656021	804006H09M050H	5m
206	1200659539	808006E02M100	✱✱ 10m
207	1200656293	803006E03M080	8m
208	1200656294	803006E03M120	12m
209	1200656295	804006E03M080	8m
210	1200656297	808006H08M005	0.5m

No.	Part No.	Engineering No.	Cable Length
211	1200650843	803006A09M0208	✱ 2m
212	1200651374	805006K03M020	2m
213	1200652151	805006K03M050	5m
214	1200651129	804006K05M020	2m
215	1200651131	804006K05M050	5m
216	1200651133	804006K05M100	10m
217	1200657191	805006E03M005	0.5m
218	1200656974	805006H09M003	0.3m
219	1200657157	804006P03M002	0.2m
220	1200657158	804006P03M005	0.5m
221	1200657159	804006E03M015	1.5m
222	1200657263	805006H09M250	25m
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No.	Part No.	Engineering No.	Cable Length
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NOTES:
✱ - Part No. with Yellow PVC overmolding
✱✱ - Part No. with Black PVC overmolding

FUNCTIONAL SYMBOLS

FA

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FE

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FE

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DIVISIONAL SYMBOLS

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 °

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:

EC NO: 703046

DRWN: APAWLAK01

CHK'D: RSILLER

APPR: RSILLER

2022/04/12

2022/04/14

2022/04/14

INITIAL REVISION:

DRWN: JMARSZALEK

APPR: RSILLER

2016/01/12

2016/04/08

THIRD ANGLE PROJECTION

DRAWING

SERIES

MATERIAL NUMBER

CUSTOMER

SHEET NUMBER

mo

lex

CSE M12 XP AC MA STR XM SE UNSH

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER

1200659185

DOC TYPE

PSD

DOC PART

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REVISION

A10

DOCUMENT STATUS

P1

RELEASE DATE

2022/04/14

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