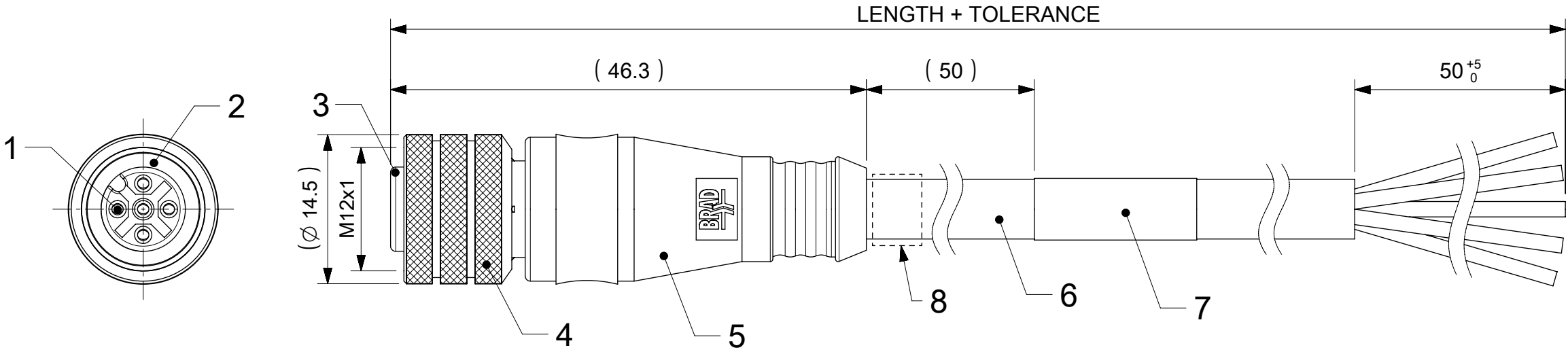


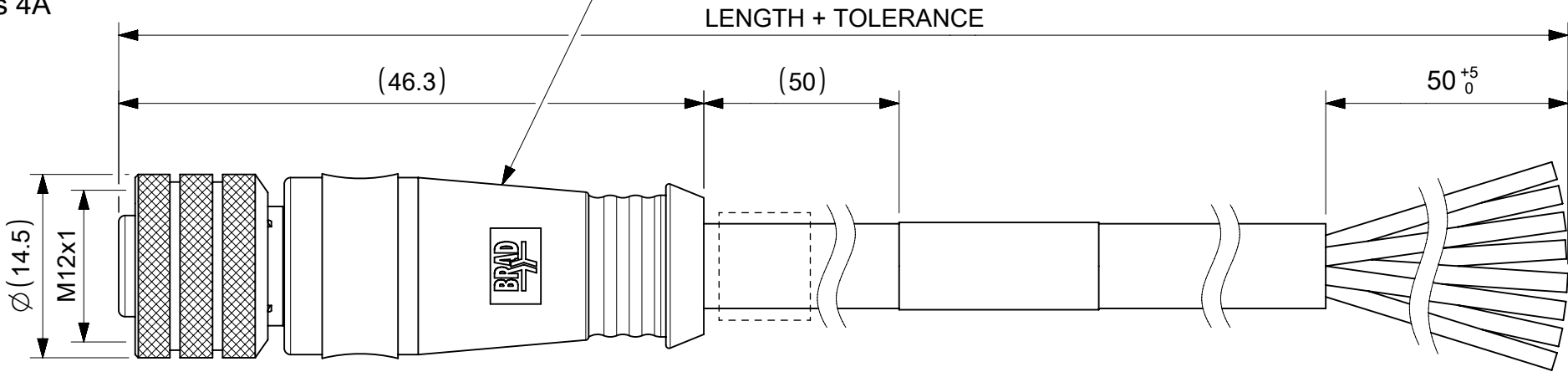
FEMALE PLUG M12 STRAIGHT



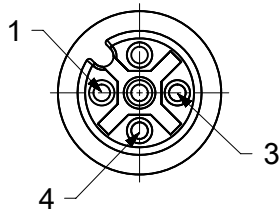
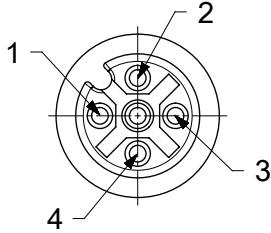
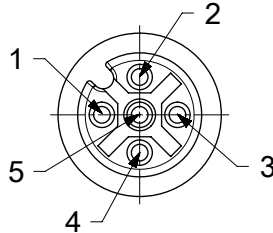
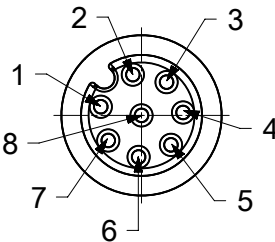
NOTES:

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

Thicker Overmold for Cables
with bigger Outer Diameter



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	5	GREY
						6	PINK
						7	BLUE
						8	RED
CODING REQUIRED TO IEC 61076-2-101							

FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

8	SEE MATRIX	ID CARRIER	PVC	TRANSPARENT
7	1	LABEL YELLOW	VINYL	---
6	-	CABLE	SEE SHEET 2	---
5	-	OVERMOLDING	TPU	SEE PART LIST
4	1	COUPLING NUT FEMALE	SEE PART LIST	SEE PART LIST
3	1	INSERT FEMALE BLACK	PUR	---
2	1	ORING RED	FPM	---
1	3 / 4 / 5	CONTACT M12 FEMALE	BRONZE	SELECTIVE Au OVER Ni
	8		BRASS	SELECTIVE Au OVER Ni
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																			
FUNCTIONAL SYMBOLS FA = 0 FE = 0 FD = 0		DIMENSION UNITS		SCALE		CURRENT REV DESC: EC NO: 703046 DRWN: APAWLAK01 2022/04/12 CHK'D: RSILLER 2022/04/14 APPR: RSILLER 2022/04/14 INITIAL REVISION: DRWN: JMARSZALEK 2016/01/11 APPR: RSILLER 2016/04/08			molex CSE M12 XP AC FE STR XM SE UNSH										
		mm		2:1															
		GENERAL TOLERANCES (UNLESS SPECIFIED)																	
		ANGULAR TOL ± 1.0 °																	
DIVISIONAL SYMBOLS		4 PLACES ±							PRODUCT CUSTOMER DRAWING										
		3 PLACES ±																	
		2 PLACES ± 0.05																	
		1 PLACE ± 0.3																	
		0 PLACES ± 0.5																	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS						THIRD ANGLE PROJECTION		DRAWING		SERIES		DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION	
								A3-SIZE		120065		1200651978		PSD		000		A10	
												MATERIAL NUMBER		CUSTOMER				SHEET NUMBER	
												SEE SHEET 3-4		GENERAL MARKET				1 OF 4	

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

OPTIONS

8 0 X 0 0 0 X X X X X X X X X

80=M12x1
Single ended

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

Heads style:
000=Plug Female Straight

Cable type: See Table

Units:
M=Meter

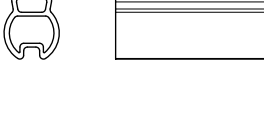
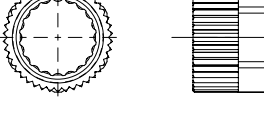
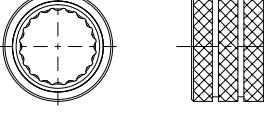
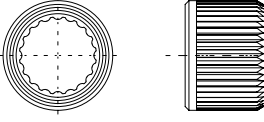
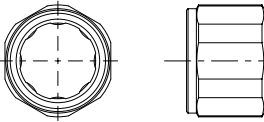
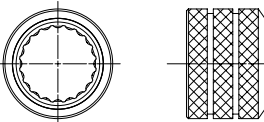
Length
Examples:
005=0.5 unit
010=1 unit
100=10 units

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

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

COUPLING NUTS

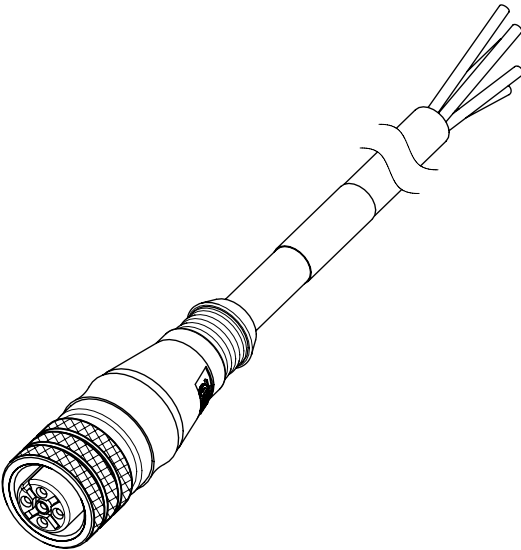


CABLE INFORMATION (for more information see Cable Data Sheet).

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



SCALE 1:1

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:			molex				
√A = 0	mm		1:1									
√E = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)				CSE M12 XP AC FE STR XM SE UNSH							
√F = 0	ANGULAR TOL ± 1.0 °											
DIVISIONAL SYMBOLS	4 PLACES		±		EC NO: 703046 DRWN: APAWLAK01 2022/04/12 CHK'D: RSILLER 2022/04/14 APPR: RSILLER 2022/04/14			PRODUCT CUSTOMER DRAWING				
	3 PLACES		±									
	2 PLACES		± 0.05									
	1 PLACE		± 0.3		INITIAL REVISION: DRWN: JMARSZALEK 2016/01/11 APPR: RSILLER 2016/04/08			DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION
	0 PLACES		± 0.5					1200651978		PSD	000	A10
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING	SERIES	MATERIAL NUMBER		CUSTOMER	SHEET NUMBER
						A3-SIZE	120065	SEE SHEET 3-4		GENERAL MARKET	2 OF 4	

PART LIST															
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	1200060001	803000E03M020	2m	36	1200060458	804000P03M0501	5m	71	1200063673	803000P03M1001	10m	106	1200658008	804000H09M050H	5m
2	1200060002	803000E03M050	5m	37	1200060461	804000P03M200	20m	72	1200063779	805000E03M300	30m	107	1200658009	804000H09M100H	10m
3	1200060003	803000E03M100	10m	38	1200060634	805000E03M020	2m	73	1200063940	804000P03M0051	0.5m	108	1200658020	805000P03M040	4m
4	1200060004	803000P03M020	2m	39	1200060638	805000E03M100	10m	74	1200064033	804000P03M120	12m	109	1200658021	808000P02M150	15m
5	1200060005	803000P03M050	5m	40	1200060646	805000P03M002	0.2m	75	1200064033	803000P03M002	0.2m	110	1200658022	808000P03M030	3m

5	1200060005	803000P03M030	5m
6	1200060006	803000P03M100	10m
7	1200060014	804000E03M020	2m
8	1200060015	804000E03M050	5m
9	1200060016	804000E03M100	10m
10	1200060018	804000P03M020	2m
11	1200060019	804000P03M050	5m
12	1200060027	803000E03M006	0.6m
13	1200060032	804000E03M005	0.5m
14	1200060034	804000P03M025	2.5m
15	1200060107	803000E03M003	0.3m
16	1200060113	803000E03M030	3m
17	1200060116	803000E03M0505	5m
18	1200060117	803000E03M1005	10m
19	1200060119	803000E03M150	15m
20	1200060121	803000E03M200	20m
21	1200060124	803000E03M2505	25m
22	1200060152	803000P03M010	1m
23	1200060153	803000P03M030	3m
24	1200060157	803000P03M150	15m
25	1200060158	803000P03M200	20m
26	1200060426	804000E03M010	1m
27	1200060427	804000E03M0201	** 2m
28	1200060428	804000E03M030	3m
29	1200060429	804000E03M0501	* 5m
30	1200060430	804000E03M0505	5m
31	1200060431	804000E03M150	15m
32	1200060432	804000E03M200	20m
33	1200060456	804000P03M0201	2m
34	1200060457	804000P03M030	3m

40	1200060646	805000P03M003	0.3m
41	1200060647	805000P03M020	2m
42	1200060649	805000P03M100	10m
43	1200061337	804000E03M0205	2m
44	1200061431	805000P03M150	15m
45	1200061528	804000E03M250	25m
46	1200061765	803000P03M002	0.2m
47	1200061785	804000P03M006	0.6m
48	1200061913	804000E03M300	30m
49	1200061958	803000E03M021	2.1m
50	1200062071	803000E03M060	6m
51	1200062098	803000P03M006	0.6m
52	1200062130	804000E03M050H	5m
53	1200062167	804000P03M100H	10m
54	1200062264	804000E03M1505	15m
55	1200062347	804000P03M050H	5m
56	1200062521	805000P03M030	3m
57	1200062772	803000P03M250	25m
58	1200062811	803000P03M100H	10m
59	1200062853	804000P03M150	15m
60	1200062866	804000E03M020H	2m
61	1200062992	804000E03M200H	20m
62	1200063121	804000P03M0053	0.5m
63	1200063224	804000E03M003	0.3m
65	1200063314	805000E03M010	1m
66	1200063402	804000P03M003	0.3m
67	1200063407	804000E03M1001	* 10m
68	1200063415	803000P03M0707	7m
69	1200063443	804000E03M030H	3m
70	1200063647	804000E03M2001	20m

75	1200064093	803000P03M032	3.2m
76	1200064292	805000P03M200	20m
79	1200064422	804000E03M120	12m
80	1200064434	804000H09M050G	5m
81	1200065004	805000P03M0201	2m
82	1200065006	804000H09M250G	25m
83	1200065012	803000P03M030G	3m
84	1200650951	808000P02M020	2m
85	1200650952	808000P02M040	4m
86	1200650953	808000P02M050	5m
87	1200650954	808000P02M060	6m
88	1200650955	808000P02M080	8m
89	1200650956	808000P02M0801	8m
90	1200650957	808000P02M100	10m
91	1200651769	803000P03M050G	5m
92	1200651780	804000P03M050G	5m
93	1200651782	804000P03M100	10m
94	1200651792	805000P03M050	5m
95	1200651794	808000P02M010	1m
96	1200651795	808000P02M070	7m
97	1200651817	808000P02M200	20m
98	1200651818	808000P02M250	25m
99	1200651820	808000P02M300	30m
100	1200651978	805000E03M050	5m
101	1200652143	804000P03M040	4m
102	1200652144	804000P03M060	6m
103	1200652154	805000P03M060	6m
104	1200655073	808000P02M003	0.3m
105	1200655081	805000E03M150	15m

110	1200658022	808000P02M030		3m
111	1200658064	804000P03M010		1m
112	1200658081	805000E03M200		20m
113	1200658165	805000E03M030		3m
114	1200658172	805000H09M020		2m
115	1200658173	805000H09M050		5m
116	1200658174	805000H09M100		10m
117	1200658175	803000H09M020		2m
118	1200658176	803000H09M050		5m
119	1200658177	803000H09M100		10m
120	1200658178	804000H09M020		2m
121	1200658179	804000H09M050		5m
122	1200658190	804000H09M100		10m
124	1200658197	805000P03M010		1m
125	1200658208	805000E03M0061	*	0.6m
126	1200658210	805000E03M0501	*	5m
127	1200658219	803000E03M0201	*	2m
128	1200658224	808000E02M050		5m
129	1200658228	804000E03M3001	*	30m
130	1200658244	808000H08M050		5m
131	1200658264	808000H08M100		10m
133	1200658277	808000E02M020		2m
134	1200658278	808000E02M100		10m
135	1200658288	804000E03M050G		5m
136	1200658309	808000E02M0501		5m
137	1200658321	804000P03M005		0.5m
138	1200658331	805000E03M050H		5m
139	1200658350	803000E03M1001	*	10m

<u>NOTES:</u> * - Part No. with Yellow PVC overmolding ** - Part No. with Black PVC overmolding	<table border="1"> <tr> <td data-bbox="1825 1587 1902 1593">FUNCTIONAL SYMBOLS</td><td colspan="3" data-bbox="1902 1587 2878 1593">THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</td></tr> <tr> <td data-bbox="1825 1593 1902 1600">VEZ</td><td data-bbox="1902 1593 2018 1600">mm</td><td data-bbox="2018 1593 2074 1600">SCALE</td><td data-bbox="2074 1593 2878 1600">CURRENT REV DESC:</td></tr> <tr> <td></td><td></td><td></td><td data-bbox="2074 1600 2878 1606"> </td></tr> </table>	FUNCTIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			VEZ	mm	SCALE	CURRENT REV DESC:				
FUNCTIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION												
VEZ	mm	SCALE	CURRENT REV DESC:										

$\nabla = 0$	mm	L.T.	Molex					
$\frac{E}{C} = 0$	GENERAL TOLERANCES (UNLESS SPECIFIED)		CSE M12 XP AC FE STR XM SE UNSH					
$\frac{E}{V} = 0$	ANGULAR TOL ± 1.0 °							
DIVISIONAL SYMBOLS	4 PLACES	±						
	3 PLACES	±	EC NO: 703046	2022/04/12				
	2 PLACES	± 0.05	DRWN: APAWLAK01	2022/04/14				
	1 PLACE	± 0.3	CHK'D: RSILLER	2022/04/14	PRODUCT CUSTOMER DRAWING			
	0 PLACES	± 0.5	APPR: RSILLER		DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		INITIAL REVISION:		1200651978	PSD	000	A10
	THIRD ANGLE PROJECTION 		DRWN: JMARSZALEK	2016/01/11	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER	
			APPR: RSILLER	2016/04/08	SEE SHEET 3-4	GENERAL MARKET	3 OF 4	
			DRAWING	SERIES				
			A3-SIZE	120065				

FORMAT: master-lb-prod-A3 REVISION: J DATE: 2020/01/14	9	8
--	---	---

	10	9	8	7	6	5	4	3	2	1		
PART LIST												
F	No.	Part No.	Engineering No.	Cable Length	No.	Part No.	Engineering No.	Cable Length	No.	Part No.	Engineering No.	Cable Length
	142	1200658492	804000P03M100G	10m	176	1200658780	805000H09M200	20m	217	1200659123	804000P03M100HY	10m
	143	1200658502	805000E03M005	0.5m	177	1200658782	804000E03M060	6m	218	1200659144	805000H09M300	30m
	144	1200658503	805000E03M0201	2m	178	1200658812	808000E02M150	15m	219	1200659187	808000E02M4001	40m
	145	1200658511	808000E02M010	1m	179	1200658813	808000H08M025	2.5m	221	1200659200	808000E02M250H	25m
	146	1200658525	808000P02C350	0.35m	181	1200658880	804000H09M200	20m	222	1200659207	805000E03C230	0.23m
	147	1200658545	804000P03M015	1.5m	182	1200658882	804000E03M100H	10m	223	1200659214	805000P03M300	30m
	148	1200658550	804000H09M015	1.5m	183	1200658887	803000E03M020H	2m	224	1200659256	808000E02M200	20m
	149	1200658551	808000E02M1001	10m	184	1200658889	803000E03M050H	5m	225	1200659279	805000E03M007	0.7m
	150	1200658562	803000E03M010	1m	185	1200658891	804000H09M003	0.3m	226	1200659280	805000E03M350	35m
E	151	1200658563	803000E03M040	4m	186	1200658894	804000E03M020G	2m	227	1200659282	805000P03M005	0.5m
	152	1200658570	804000E03M040	4m	187	1200658896	804000E03M075	7.5m	228	1200659283	805000P03M007	0.7m
	153	1200658590	808000E02M030	3m	188	1200658899	808000H08M250	25m	229	1200659302	804000P03M1005	10m
	154	1200658591	808000E02M040	4m	192	1200658927	804000P02M050	5m	230	1200659326	805000P03M020H	2m
	155	1200658592	805000E03M040	4m	194	1200658930	808000H08M150	15m	231	1200659329	805000P03M150H	15m
	156	1200658609	804000P02M020	2m	196	1200658983	804000E03M002	0.2m	232	1200659330	805000P03M200H	20m
	157	1200658610	803000P03M040	4m	197	1200658984	808000E02M2501	25m	233	1200659334	808000P02M200H	20m
	161	1200658632	805000H09M010	1m	199	1200658991	805000P03M100H	10m	234	1200659340	804000P03M1501	15m
	162	1200658633	805000H09M015	1.5m	200	1200659038	804000E02M100	10m	235	1200659341	804000P03M2501	25m
	163	1200658634	805000H09M030	3m	201	1200659040	804000E02M050	5m	236	1200659368	805000E03M015	1.5m
D	164	1200658635	805000H09M040	4m	202	1200659052	808000E02M2001	20m	237	1200659370	804000P03M020Y	2m
	165	1200658636	803000H09M010	1m	203	1200659053	808000E02M3001	30m	238	1200659387	808000E02M500	50m
	166	1200658637	803000H09M015	1.5m	209	1200659088	804000P03M050HY	5m	239	1200659388	804000P03M012	1.2m
	167	1200658638	803000H09M030	3m	210	1200659092	808000P02M050Y	5m	241	1200659397	808000P02M100Y	10m
	168	1200658639	803000H09M040	4m					242	1200659399	808000P02M015	1.5m
	169	1200658640	804000H09M010	1m					243	1200659474	804000P03M250	25m
	170	1200658641	804000H09M040	4m					244	1200659475	804000P03M300	30m
	171	1200658642	808000H08M010	1m					245	1200659509	805000E03M600	60m
	172	1200658643	808000H08M015	1.5m								
	173	1200658644	808000H08M020	2m								
C	174	1200658645	808000H08M030	3m								
	175	1200658646	808000H08M040	4m								
NOTES:												
✱ - Part No. with Yellow PVC overmolding												
✱✱ - Part No. with Black PVC overmolding												
A	DOCUMENT STATUS P1 RELEASE DATE 2022/04/14 06:15:29											
	FORMAT: master-b-prod-A3 REVISION: J DATE: 2020/01/14											
	9	8	7	6	5	4	3	2	1			
	FUNCTIONAL SYMBOLS											
	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION											
	CURRENT REV DESC:											
	EC NO: 703046 DRWN: APAWLAK01 CHK'D: RSILLER APPR: RSILLER											
	INITIAL REVISION: DRWN: JMARSZALEK APPR: RSILLER											
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS											
	THIRD ANGLE PROJECTION											
DRAWING												
SERIES												
MATERIAL NUMBER												
CUSTOMER												
SHEET NUMBER												
A3-SIZE												
120065												
SEE SHEET 3-4												
GENERAL MARKET												
4 OF 4												
molex												
CSE M12 XP AC FE STR XM SE UNSH												
PRODUCT CUSTOMER DRAWING												
DOCUMENT NUMBER												
1200651978												
DOC TYPE												
PSD												
DOC PART												
000												
REVISION												
A10												