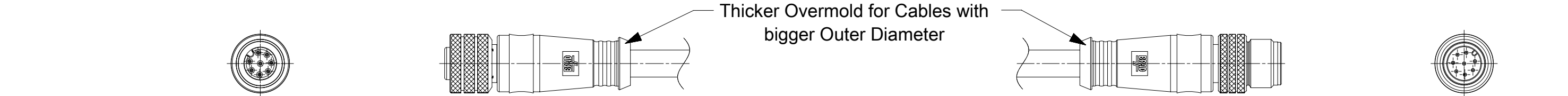
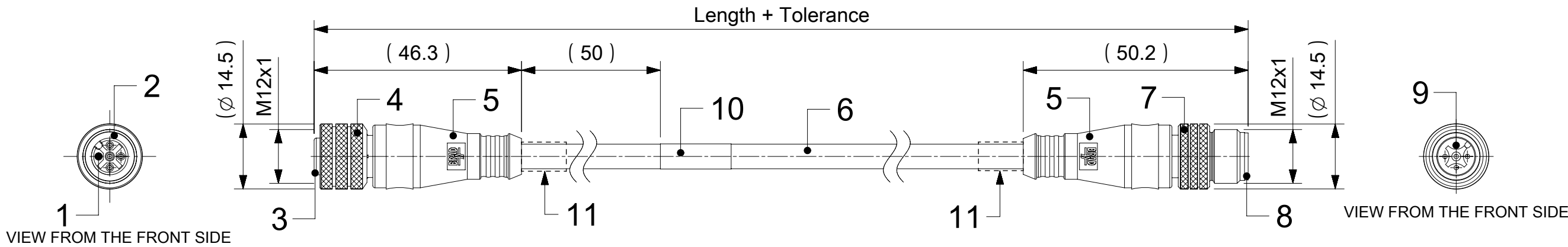


FEMALE PLUG M12 STRAIGHT TO MALE PLUG M12 STRAIGHT



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	
	PIN	WIRE	PIN	WIRE	PIN	WIRE	PIN	WIRE
FEMALE	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
MALE	3	BLUE	3	BLUE	3	BLUE	3	GREEN
	4	BLACK	4	BLACK	4	BLACK	4	YELLOW
	5	GREY	5	GREY	5	GREY	5	GREY
	6	PINK	6	PINK	6	PINK	6	PINK
CONNECTIONS	7	BLUE	7	BLUE	7	BLUE	7	BLUE
	8	RED	8	RED	8	RED	8	RED
	CODING REQUIRED TO IEC 61076-2-101							

FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

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
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

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: REMOVED OBSOLETE PART NUMBER AS PER PCN#512871.

EC NO: 732259

DRWN: SANTHN

CHK'D: GGA

APPR: GGA

INITIAL REVISION:

DRWN: JMARSZALEK

APPR: RSILLER

THIRD ANGLE PROJECTION

DRAWING

SERIES

MATERIAL NUMBER

CUSTOMER

SHEET NUMBER

2022/12/20

2022/12/21

2022/12/21

2016/09/16

2016/12/08

A3-SIZE

120066

SEE SHEET 3-4

GENERAL MARKET

1 OF 4

molex

CSE M12 XP AC FE STR MA STR XM DE

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER

1200668084

DOC TYPE

PSD

DOC PART

000

REVISION

A15

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

OPTIONS

88X030XXX

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

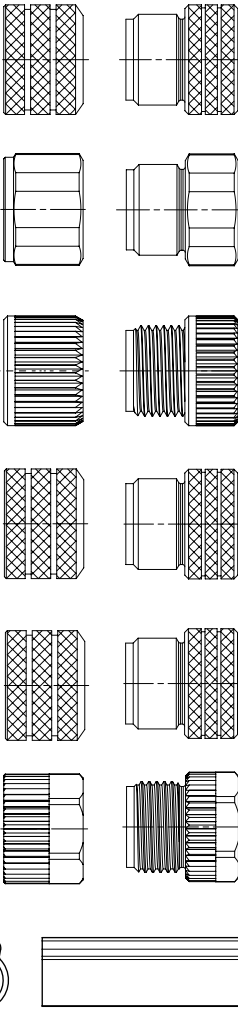
Length
Examples:
005=0.5 unit
010=1 unit
100=10 units

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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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: REMOVED OBSOLETE PART NUMBER AS PER PCN#512871.

EC NO: 732259
DRWN: SANTHN
CHK'D: GGA
APPR: GGA

INITIAL REVISION:
DRWN: JMARSZALEK
APPR: RSILLER

2022/12/20
2022/12/21
2022/12/21
2016/09/16
2016/12/08

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER
1200668084

DOC TYPE
PSD

DOC PART
000

REVISION
A15

SHEET NUMBER
2 OF 4

10	9	8	7	6	5	4	3	2	1		
PART LIST											
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	71	1200072763	884030P03M0201	2m
2	1200060050	884030P03M015	1.5m	37	1200071122	883030P03M030H	3m	72	1200072764	884030P03M0301	3m
3	1200060051	884030P03M030	3m	38	1200071123	883030P03M010H	1m	73	1200072803	884030P03M040	4m
4	1200070081	883030E03M006	0.6m	39	1200071131	883030P03M0201	2m	74	1200072804	884030P03M060	6m
5	1200070083	883030E03M010	1m	40	1200071199	884030E03M200	20m	75	1200073049	885030P03M0501	5m
6	1200070085	883030E03M020	2m	41	1200071273	883030P03M100H	10m	76	1200073083	885030P03M006	0.6m
7	1200070086	883030E03M0205	2m	42	1200071284	885030P03M100	10m	77	1200073084	885030P03M150	15m
8	1200070088	883030E03M030	3m	43	1200071288	883030P03M060	6m	78	1200660498	883030P03M010	1m
9	1200070091	883030E03M050	5m	44	1200071408	885030P03M030	3m	79	1200660500	883030P03M020	2m
10	1200070092	883030E03M0505	5m	45	1200071500	885030E03M005	0.5m	80	1200660501	883030P03M030	3m
11	1200070093	883030E03M100	10m	46	1200071583	885030E03M080	8m	81	1200660502	883030P03M050	5m
12	1200070102	883030P03M003	0.3m	47	1200071594	884030E03M015	1.5m	82	1200660579	888030P02M010	1m
13	1200070104	883030P03M006	0.6m	48	1200071596	884030E03M060	6m	83	1200660580	888030P02M020	2m
14	1200070105	883030P03M100	10m	49	1200071703	884030E03M0205	2m	84	1200660581	888030P02M030	3m
15	1200070470	884030E03M003	0.3m	50	1200071707	884030E03M0505	5m	85	1200660582	888030P02M040	4m
16	1200070472	884030E03M006	0.6m	51	1200071715	884030E03M150	15m	86	1200660583	888030P02M050	5m
17	1200070473	884030E03M010	1m	52	1200071774	884030E03M020H	2m	87	1200660584	888030P02M060	6m
18	1200070474	884030E03M020	2m	53	1200071793	884030E03M1501✱	15m	88	1200660585	888030P02M100	10m
19	1200070475	884030E03M030	3m	54	1200071881	884030E03M1005	10m	89	1200660586	888030P02M150	15m
20	1200070476	884030E03M100	10m	55	1200071947	885030P03M007	0.7m	90	1200661455	888030P02M005	0.5m
21	1200070486	884030P03M003	0.3m	56	1200071948	885030E03M040	4m	91	1200665009	884030E03M005	0.5m
22	1200070487	884030P03M006	0.6m	57	1200072010	884030P03M050H	5m	92	1200665031	884030P03M100H	10m
23	1200070488	884030P03M010	1m	58	1200072081	885030E03M035	3.5m	93	1200668062	884030E03M010H	1m
24	1200070489	884030P03M020	2m	59	1200072092	884030E03M040	4m	94	1200668084	885030P03M010	1m
25	1200070490	884030P03M050	5m	60	1200072104	883030P03M040	4m	95	1200668086	885030P03M0283	2.8m
26	1200070586	885030E03M030	3m	61	1200072105	884030P03M200	20m	96	1200668088	885030P03M070	7m
27	1200070596	885030P03M020	2m	62	1200072172	884030E03M050H	5m	97	1200668163	885030P03M040	4m
28	1200070906	885030E03M010	1m	63	1200072544	884030E03M120	12m	98	1200668174	884030H09M030	3m
29	1200070969	885030E03M050	5m	64	1200072649	884030P03M0105	1m	99	1200668234	884030H09M020	2m
30	1200070970	885030E03M020	2m	65	1200072650	884030P03M0505	5m	100	1200668238	885030P03M200	20m
31	1200071006	883030E03M020H	2m	66	1200072656	885030P03M120	12m	101	1200668244	884030H09M050	5m
32	1200071029	884030P03M100	10m	67	1200072658	883030P03M120	12m	102	1200668288	888030E02M025	2.5m
33	1200071047	883030P03M050H	5m	68	1200072697	885030E03M060	6m	103	1200668327	888030P02M200	20m
34	1200071049	885030P03M050	5m	69	1200072744	884030E03M0501✱	5m	104	1200668338	885030E03M006	0.6m
35	1200071053	883030P03M150	15m	70	1200072762	884030P03M0101	1m	105	1200668347	885030E03M100	10m
NOTES:											
✱ - Part No. with Yellow PVC overmolding											

10	9	8	7	6	5	4	3	2	1
PART LIST									
No.	MOLEX PN	Engineering No.	Length	No.	MOLEX PN	Engineering No.	Length	No.	MOLEX PN
141	1200668661	884030E02M0031	✱0.3m	176	1200668786	884030E03M070	7m	211	1200669311
142	1200668662	883030E02M006	0.6m	177	1200668794	885030P03M006H	0.6m	212	1200669312
143	1200668664	885030E02M010	1m	178	1200668795	885030P03M010H	1m	213	1200669313
144	1200668672	884030E03M0051	✱0.5m	179	1200668796	885030P03M030H	3m	214	1200669314
145	1200668674	885030E03M150	15m	180	1200668797	885030P03M050H	5m	215	1200669353
146	1200668683	885030H09M150	15m	181	1200668798	885030P03M100H	10m	216	1200669423
147	1200668684	885030H09M200	20m	182	1200668800	885030P03M200H	20m	217	1200669424
148	1200668687	884030P03M005	0.5m	183	1200668801	885030P03M300H	30m	218	1200669437
149	1200668689	884030H08M030	3m	184	1200668802	885030P03M350H	35m	219	1200669477
150	1200668690	883030P03M020YH	2m	185	1200668803	888030P02M010H	1m	220	1200669478
151	1200668691	883030P03M010YH	1m	186	1200668804	888030P02M020H	2m	221	1200669479
152	1200668712	883030P03M100HY	10m	187	1200668806	888030P02M050H	5m	222	1200669499
153	1200668713	883030P03M050HY	5m	188	1200668807	888030P02M100H	10m	223	1200669500
154	1200668714	884030H09M0209	2m	189	1200668808	888030P02M150H	15m	224	1200669501
155	1200668715	884030H09M003	0.3m	190	1200668809	888030P02M200H	20m	225	1200669502
156	1200668718	884030E03M250	25m	191	1200668810	888030P02M350H	35m	226	1200669503
157	1200668719	884030E03M300	30m	192	1200668815	884030P03M0805	8m	227	1200669508
158	1200668720	884030P03M150	15m	193	1200668853	885030H09M040	4m	228	1200669509
159	1200668721	884030P03M250	25m	194	1200668854	885030H09M060	6m	229	1200669510
160	1200668722	884030P03M300	30m	195	1200668903	885030P03C130	0.13m	230	1200669511
161	1200668723	884030P03M350	35m	196	1200668972	885030E03M003	0.3m	231	1200669561
162	1200668724	884030P03M400	40m	197	1200668973	885030E03M025	2.5m	232	1200669350
163	1200668737	884030H09M055	5.5m	198	1200668980	885030E03M080H	8m	233	1200669609
164	1200668754	884030P03M020H	2m	199	1200668981	885030E03M040H	4m	234	1200669717
165	1200668765	885030P03M015	1.5m	200	1200668982	885030E03M060H	6m	235	1200669522
166	1200668770	884030E03M350	35m	201	1200668985	885030E03M030H	3m	236	1200669523
167	1200668771	884030E03M400	40m	202	1200669111	885030P03M150H	15m	237	1200669752
168	1200668774	888030H08M100	10m	203	1200669117	888030H08M040	4m	238	1200669759
169	1200668775	885030P03M300	30m	204	1200669133	888030P02M3008	30m	239	1200669753
170	1200668777	888030E02M020	2m	205	1200669134	883030H09M015	1.5m	240	1200669758
171	1200668778	888030E02M030	3m	206	1200669135	883030H09M200	20m	241	
172	1200668779	888030E02M050	5m	207	1200669153	883030E03M0101	1m	242	
173	1200668780	888030E02M100	10m	208	1200669161	888030H08M150	15m	243	
174	1200668784	885030E03M300	30m	209	1200669212	888030H08M050	5m	244	
175	1200668785	885030E03M350	35m	210	1200669310	888030H08M005	0.5m	245	
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