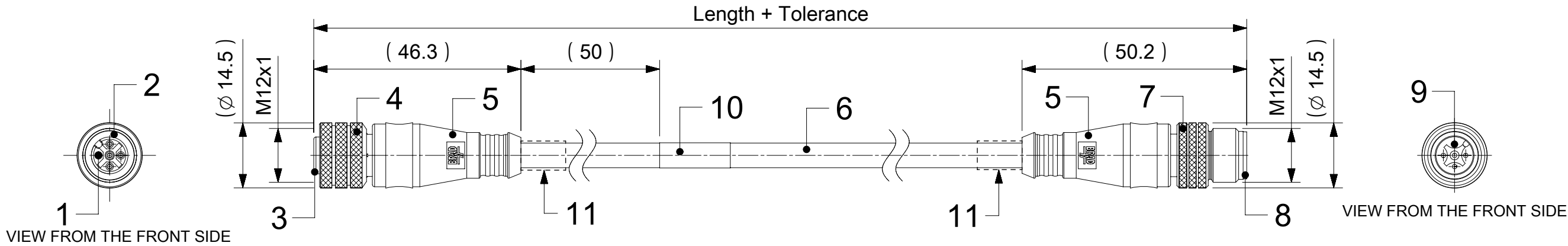


FEMALE PLUG M12 STRAIGHT TO MALE PLUG M12 STRAIGHT



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

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									
FUNCTIONAL SYMBOLS		DIMENSION UNITS		SCALE		CURRENT REV DESC: ADDED NEW PNS			
<									

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

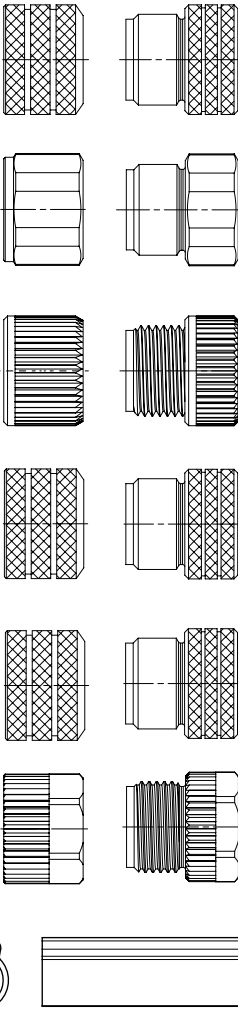
Length
Examples:
005=0.5 unit
010=1 unit
100=10 units

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

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: ADDED NEW PNS				molex				
	DIMENSION UNITS		SCALE																
√A = 0	mm		1:1		GENERAL TOLERANCES (UNLESS SPECIFIED)										CSE M12 XP AC FE STR MA STR XM DE				
√E = 0	ANGULAR TOL ± 1.0 °																		
√F = 0											4 PLACES		±		EC NO: 692872				2021/12/02
DIVISIONAL SYMBOLS	3 PLACES		±		DRWN: MDHARMANTI				2022/01/24										
	2 PLACES		± 0.05		CHK'D: RSILLER				2022/01/24										
	1 PLACE		± 0.3		APPR: RSILLER				2022/01/24										
	0 PLACES		± 0.5		INITIAL REVISION:														
					DRWN: JMARSZALEK				2016/09/16										
				APPR: RSILLER				2016/12/08											
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION				DRAWING		SERIES		DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION	
								A3-SIZE		120066		1200668084		PSD		000		A14	
												MATERIAL NUMBER		CUSTOMER				SHEET NUMBER	
												SEE SHEET 3-4		GENERAL MARKET				2 OF 4	

DOCUMENT STATUS	P1	RELEASE DATE	2022/01/24	16:46:28
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10				9				8				7				6				5				4				3				2				1				
PART LIST																																								
F	No.				MOLEX PN				Engineering No.				Length																											
E	5				1200070083				883030E03M010				1m																											
	6				1200070085				883030E03M020				2m																											
	7				1200070086				883030E03M0205				2m																											
	8																																							

10				9				8				7				6				5				4				3				2				1												
PART LIST																																																
F	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			
E	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			

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	1200668646	883030P03M030HY	3m	176	1200668779	888030E02M050	5m	211	1200669135
142	1200668652	885030E03M070	7m	177	1200668780	888030E02M100	10m	212	1200669153
143	1200668656	885030E02M100	10m	178	1200668784	885030E03M300	30m	213	1200669161
144	1200668657	885030E02M020	2m	179	1200668785	885030E03M350	35m	214	1200669212
145	1200668661	884030E02M0031	✱ 0.3m	180	1200668786	884030E03M070	7m	215	1200669310
146	1200668662	883030E02M006	0.6m	181	1200668794	885030P03M006H	0.6m	216	1200669311
147	1200668664	885030E02M010	1m	182	1200668795	885030P03M010H	1m	217	1200669312
148	1200668672	884030E03M0051	✱ 0.5m	183	1200668796	885030P03M030H	3m	218	1200669313
149	1200668674	885030E03M150	15m	184	1200668797	885030P03M050H	5m	219	1200669314
150	1200668683	885030H09M150	15m	185	1200668798	885030P03M100H	10m	220	1200669353
151	1200668684	885030H09M200	20m	186	1200668800	885030P03M200H	20m	221	1200669423
152	1200668687	884030P03M005	0.5m	187	1200668801	885030P03M300H	30m	222	1200669424
153	1200668689	884030H08M030	3m	188	1200668802	885030P03M350H	35m	223	1200669437
154	1200668690	883030P03M020YH	2m	189	1200668803	888030P02M010H	1m	224	1200669477
155	1200668691	883030P03M010YH	1m	190	1200668804	888030P02M020H	2m	225	1200669478
156	1200668712	883030P03M100HY	10m	191	1200668805	888030P02M030H	3m	226	1200669479
157	1200668713	883030P03M050HY	5m	192	1200668806	888030P02M050H	5m	227	1200669499
158	1200668714	884030H09M0209	2m	193	1200668807	888030P02M100H	10m	228	1200669500
159	1200668715	884030H09M003	0.3m	194	1200668808	888030P02M150H	15m	229	1200669501
160	1200668718	884030E03M250	25m	195	1200668809	888030P02M200H	20m	230	1200669502
161	1200668719	884030E03M300	30m	196	1200668810	888030P02M350H	35m	231	1200669503
162	1200668720	884030P03M150	15m	197	1200668815	884030P03M0805	8m	232	1200669508
163	1200668721	884030P03M250	25m	198	1200668853	885030H09M040	4m	233	1200669509
164	1200668722	884030P03M300	30m	199	1200668854	885030H09M060	6m	234	1200669510
165	1200668723	884030P03M350	35m	200	1200668903	885030P03C130	0.13m	235	1200669511
166	1200668724	884030P03M400	40m	201	1200668972	885030E03M003	0.3m	236	1200669561
167	1200668737	884030H09M055	5.5m	202	1200668973	885030E03M025	2.5m	237	1200669350
168	1200668754	884030P03M020H	2m	203	1200668980	885030E03M080H	8m	238	1200669609
169	1200668765	885030P03M015	1.5m	204	1200668981	885030E03M040H	4m	239	1200669717
170	1200668770	884030E03M350	35m	205	1200668982	885030E03M060H	6m	240	1200669522
171	1200668771	884030E03M400	40m	206	1200668985	885030E03M030H	3m	241	1200669523
172	1200668774	888030H08M100	10m	207	1200669111	885030P03M150H	15m	242	1200669752
173	1200668775	885030P03M300	30m	208	1200669117	888030H08M040	4m	243	1200669759
174	1200668777	888030E02M020	2m	209	1200669133	888030P02M3008	30m	244	1200669753
175	1200668778	888030E02M030	3m	210	1200669134	883030H09M015	1.5m	245	1200669758