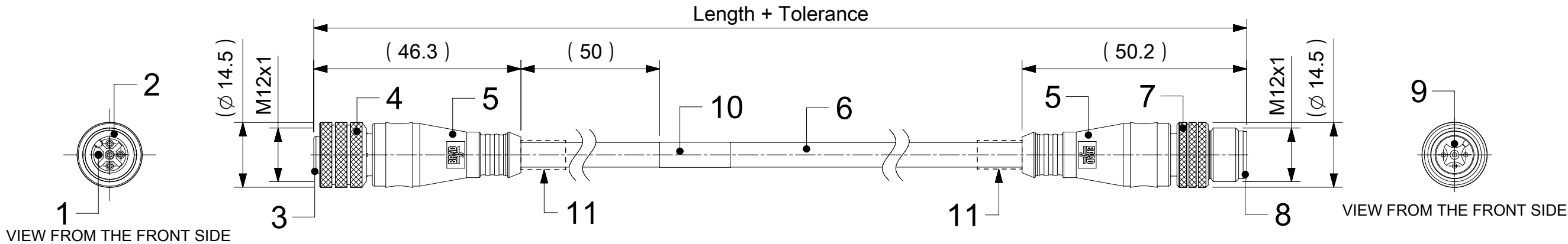


FEMALE PLUG M12 STRAIGHT TO MALE PLUG M12 STRAIGHT



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

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: NEW P/N'S ADDED TO THE DRAWING 12335	DIVISIONAL SYMBOLS THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION CURRENT REV DESC: NEW P/N'S ADDED TO THE DRAWING 12335	SCALE 1:1	moLEX			
			CSE M12 XP AC FE STR MA STR XM DE			
			PRODUCT CUSTOMER DRAWING			
			DOCUMENT NUMBER 1200668084			
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIRD ANGLE PROJECTION	DRAWING A3-SIZE	SERIES 120066	MATERIAL NUMBER SEE SHEET 3-4	CUSTOMER GENERAL MARKET

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

OPTIONS

COUPLING NUTS
FEMALE MALE

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

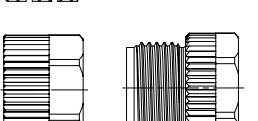
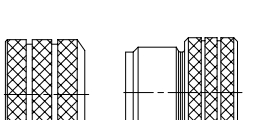
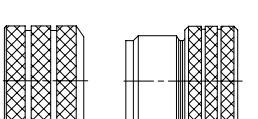
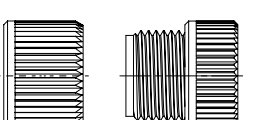
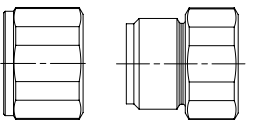
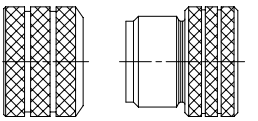
Units:
M=Meter
C=Centimeter

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

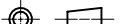
H= 2 pcs. of I/D Carrier PVC Transparent



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										
	DIMENSION UNITS		SCALE		CURRENT REV DESC: NEW P/N'S ADDED TO THE DRAWING 12335		molex				
	mm		1:1								
	GENERAL TOLERANCES (UNLESS SPECIFIED)						CSE M12 XP AC FE STR MA STR XM DE				
ANGULAR TOL ± 1.0 °											
DIVISIONAL SYMBOLS	4 PLACES		±		EC NO: 769491 DRWN: VHANDI 2023/10/30 CHK'D: RSILLER 2023/11/21 APPR: RSILLER 2023/11/21		PRODUCT CUSTOMER DRAWING				
	3 PLACES		±								
	2 PLACES		± 0.05								
	1 PLACE		± 0.3		INITIAL REVISION: DRWN: JMARSZALEK 2016/09/16 APPR: RSILLER 2016/12/08		DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION
	0 PLACES		± 0.5				1200668084		PSD	000	A17
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING	SERIES	MATERIAL NUMBER		CUSTOMER
						A3-SIZE	120066	SEE SHEET 3-4		GENERAL MARKET	2 OF 4

DOCUMENT STATUS	P1	RELEASE DATE	2023/11/21	12:03:28
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	10	9	8	7	6	5	4	3	2	1		
	PART LIST											
F	MOLEX PN Engineering No. Length			MOLEX PN Engineering No. Length			MOLEX PN Engineering No. Length			MOLEX PN Engineering No. Length		
	3P CABLE E03			1200669423 884030E03M025 2.5m			1200668981 885030E03M040H 4m			4P CABLE H08		
	1200070081	883030E03M006	0.6m	1200070475	884030E03M030	3m	1200071948	885030E03M040	4m	1200668689	884030H08M030	3m
	1200669153	883030E03M0101	1m	1200669424	884030E03M035	3.5m	1200070969	885030E03M050	5m	8P CABLE H08		
	1200070083	883030E03M010	1m	1200072092	884030E03M040	4m	1200668982	885030E03M060H	6m	1200669314	888030H08C250	0.25m
E	1200071006	883030E03M020H	2m	1200072172	884030E03M050H	5m	1200072697	885030E03M060	6m	1200669310	888030H08M005	0.5m
	1200070086	883030E03M0205	2m	1200071707	884030E03M0505	5m	1200668652	885030E03M070	7m	1200669311	888030H08M008	0.8m
	1200070085	883030E03M020	2m	1200072744	884030E03M0501	5m	1200668980	885030E03M080H	8m	1200668491	888030H08M010	1m
	1200070088	883030E03M030	3m	1200060049	884030E03M050	5m	1200071583	885030E03M080	8m	1200669312	888030H08M012	1.2m
	1200668370	883030E03M040	4m	1200071596	884030E03M060	6m	1200669905	885030E03M085H	8.5m	1200669313	888030H08M015	1.5m
	1200070092	883030E03M0505	5m	1200668786	884030E03M070	7m	1200669906	885030E03M090H	9m	1200669117	888030H08M040	4m
	1200070091	883030E03M050	5m	1200669508	884030E03M080	8m	1200668347	885030E03M100	10m	1200669212	888030H08M050	5m
	1200669511	883030E03M060	6m	1200071881	884030E03M1005	10m	1200669907	885030E03M110H	11m	1200669958	888030H08M070	7.0m
	1200669499	883030E03M080	8m	1200070476	884030E03M100	10m	1200668674	885030E03M150	15m	1200668774	888030H08M100	10m
	1200070093	883030E03M100	10m	1200072544	884030E03M120	12m	1200668487	885030E03M200	20m	1200669161	888030H08M150	15m
	1200669500	883030E03M120	12m	1200669509	884030E03M140	14m	1200668521	885030E03M250	25m	1200669437	888030H08M200	20m
	1200669501	883030E03M140	14m	1200071793	884030E03M1501	15m	1200668784	885030E03M300	30m	1200669955	888030H08M300	30m
	1200669502	883030E03M160	16m	1200071715	884030E03M150	15m	1200668785	885030E03M350	35m			
D	1200669510	884030E03M160	16m	1200669883	884030E03M180H	18m	3P CABLE E02			3P CABLE H09		
	1200669503	883030E03M180	18m	1200071199	884030E03M200	20m	1200668662	883030E02M006	0.6m	1200668373	883030H09M006	0.6m
	1200669522	883030E03M200	20m	1200668718	884030E03M250	25m	1200669609	883030E02M0201	2m	1200668374	883030H09M010	1m
	1200669523	883030E03M250	25m	1200668719	884030E03M300	30m	1200669561	883030E02M050	5m	1200669134	883030H09M015	1.5m
	4P CABLE E03			120066								

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

