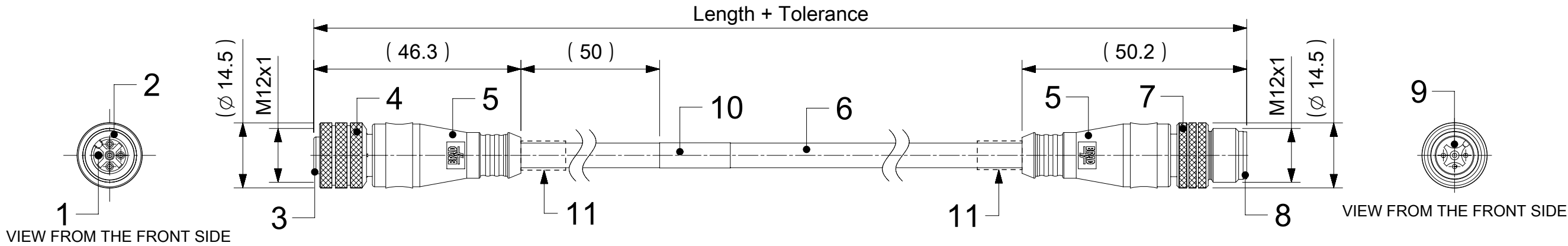


FEMALE PLUG M12 STRAIGHT TO MALE PLUG M12 STRAIGHT



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

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

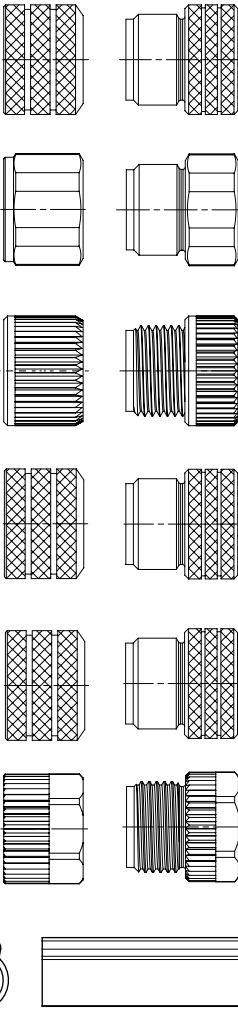
Length
Examples:
005=0.5 unit
010=1 unit
100=10 units

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										
	DIMENSION UNITS		SCALE		CURRENT REV DESC: NEW P/N'S ADDED TO THE DRAWING 12335				molex		
FA = 0 FE = 0 FF = 0	mm	1:1									
DIVISIONAL SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)			EC NO: 769491 DRWN: VHANDI2023/10/30 CHK'D: RSILLER2023/11/21 APPR: RSILLER2023/11/21							
	ANGULAR TOL ± 1.0 °										
	4 PLACES	±									
	3 PLACES	±		INITIAL REVISION: DRWN: JMARSZALEK2016/09/16 APPR: RSILLER2016/12/08							
	2 PLACES	±	0.05								
	1 PLACE	±	0.3								
	0 PLACES	±	0.5	THIRD ANGLE PROJECTION		DRAWING	SERIES	DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				A3-SIZE	120066	1200668084	PSD	000	A17	
							MATERIAL NUMBER	CUSTOMER	SHEET NUMBER		
							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											
MOLEX PN			Engineering No.	Length	MOLEX PN			Engineering No.	Length		
1200668174			884030H09M030	3m	1200660580			888030P02M020	2m		
1200668380			884030H09M040	4m	1200668804			888030P02M020H	2m		
1200668244			884030H09M050	5m	1200660581			888030P02M030	3m		
1200668550			884030H09M050H	5m	1200660582			888030P02M040	4m		
1200668737			884030H09M055	5.5m	1200660583			888030P02M050	5m		
1200669926			884030H09M065H	6.5m	1200668806			888030P02M050H	5m		
1200669927			884030H09M070H	7m	1200660584			888030P02M060	6m		
1200669931			884030H09M075H	7.5m	1200668352			888030P02M250	25m		
1200669932			884030H09M080H	8m	1200669133			888030P02M3008	30m		
1200668381			884030H09M100	10m	1200668810			888030P02M350H	35m		
5P CABLE H09					1200668544					888030P02M500	50m
1200668509			885030H09M006	0.6m							
1200668497			885030H09M010	1m	3P CABLE P03						
1200669756			885030H09M015H	1.5m	1200070102			883030P03M003	0.3m		
1200668500			885030H09M020	2m	1200070104			883030P03M006	0.6m		
1200669762			885030H09M020H	2m	1200660498			883030P03M010	1m		
1200669757			885030H09M025H	2.5m	1200071123			883030P03M010H	1m		
1200668510			885030H09M030	3m	1200668691			883030P03M010YH	1m		
1200669763			885030H09M030H	3m	1200660500			883030P03M020	2m		
1200668853			885030H09M040	4m	1200071131			883030P03M0201	2m		
1200668501			885030H09M050	5m	1200071114			883030P03M020H	2m		
1200668854			885030H09M060	6m	1200668690			883030P03M020YH	2m		
1200668502			885030H09M092	9.2m	1200660501			883030P03M030	3m		
1200668511			885030H09M100	10m	1200071122			883030P03M030H	3m		
1200668683			885030H09M150	15m	1200668646			883030P03M030HY	3m		
1200668684			885030H09M200	20m	1200072104			883030P03M040	4m		
					1200660502					883030P03M050	5m
8P CABLE P02					1200071047					883030P03M050H	5m
1200661455			888030P02M005	0.5m	1200668713					883030P03M050HY	5m
1200660579			888030P02M010	1m	1200071288					883030P03M060	6m
1200668803			888030P02M010H	1m	1200070105					883030P03M100	10m
1200660585			888030P02M100	10m	1200071273					883030P03M100H	10m
1200668807			888030P02M100H	10m	1200668712					883030P03M100HY	10m
1200669353			888030P02M130	13m	1200072658					883030P03M120	12m
1200660586			888030P02M150	15m	1200071053					883030P03M150	15m
1200668808			888030P02M150H	15m							
1200668327			888030P02M200	20m	4P CABLE P03						
1200668809			888030P02M200H	20m	1200070486			884030P03M003	0.3m		
					1200668687			884030P03M005	0.5m		
					1200070487			884030P03M006	0.6m		
					1200070488			884030P03M010	1m		
					1200072762			884030P03M0101	1m		
					1200072649			884030P03M0105	1m		
					1200060050			884030P03M015	1.5m		
					1200070489			884030P03M020	2m		
					1200072763			884030P03M0201	2m		
					1200668754			884030P03M020H	2m		
					1200060051			884030P03M030	3m		
					1200072764			884030P03M0301	3m		
					1200072803			884030P03M040	4m		
					1200070490			884030P03M050	5m		
					1200072650			884030P03M0505	5m		
					1200072010			884030P03M050H	5m		
					1200072804			884030P03M060	6m		
					1200669717			884030P03M080	8m		
					1200668815			884030P03M0805	8m		
					1200071029			884030P03M100	10m		
					1200665031			884030P03M100H	10m		
					1200668720			884030P03M150	15m		
					1200072105			884030P03M200	20m		
					1200668721			884030P03M250	25m		
					1200668722			884030P03M300	30m		
					1200668723			884030P03M350	35m		
					1200668724			884030P03M400	40m		
5P CABLE P03					1200668903					885030P03C130	0.13m
1200668903			885030P03C130	0.13m	1200073083			885030P03M006	0.6m		
1200073083			885030P03M006	0.6m	1200668794			885030P03M006H	0.6m		
1200668794			885030P03M006H	0.6m	1200071947			885030P03M007	0.7m		
1200071947			885030P03M007	0.7m	1200668084			885030P03M010	1m		
1200668084			885030P03M010	1m	1200668795			885030P03M010H	1m		
1200668795			885030P03M010H	1m	1200668765			885030P03M015	1.5m		
1200668765			885030P03M015	1.5m	1200070596			885030P03M020	2m		
1200070596			885030P03M020	2m	1200668602			885030P03M020G	2m		
1200668602			885030P03M020G	2m							

NOTES:
✱ - Part No. with Yellow PVC overmolding

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