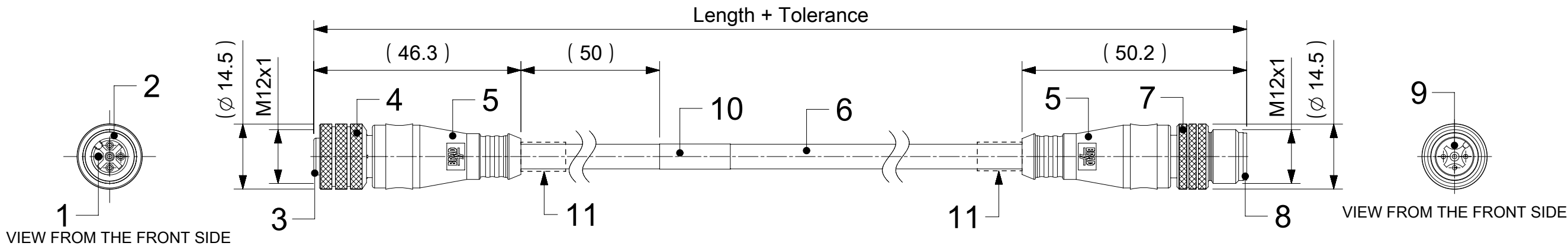


FEMALE PLUG M12 STRAIGHT TO MALE PLUG M12 STRAIGHT



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			
	THIRD ANGLE PROJECTION DRAWING A3-SIZE 120066	SERIES 120066	MATERIAL NUMBER SEE SHEET 3-4		CUSTOMER GENERAL MARKET	
			SHEET NUMBER 1 OF 4			

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

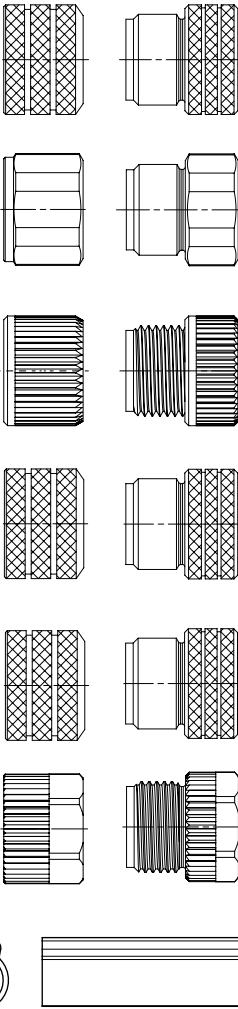
Length
Examples:
005=0.5 unit
010=1 unit
100=10 units

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												
DIVISIONAL SYMBOLS	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 °												
	4 PLACES		±		EC NO: 769491 DRWN: VHANDI 2023/10/30 CHK'D: RSILLER 2023/11/21 APPR: RSILLER 2023/11/21								
	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		SHEET NUMBER
						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								
	1200668174		884030H09M030		3m								
	1200668380		884030H09M040		4m								
	1200668244		884030H09M050		5m								
	1200668550		884030H09M050H		5m								
	1200668737		884030H09M055		5.5m								
	1200669926		884030H09M065H		6.5m								
	1200669927		884030H09M070H		7m								
	1200669931		884030H09M075H		7.5m								
	1200669932		884030H09M080H		8m								
E	1200668381		884030H09M100		10m								
	5P CABLE H09												
	1200668509		885030H09M006		0.6m								
	1200668497		885030H09M010		1m								
	1200669756		885030H09M015H		1.5m								
	1200668500		885030H09M020		2m								
	1200669762		885030H09M020H		2m								
	1200669757		885030H09M025H		2.5m								
	1200668510		885030H09M030		3m								
	1200669763		885030H09M030H		3m								
D	1200668853		885030H09M040		4m								
	1200668501		885030H09M050		5m								
	1200668854		885030H09M060		6m								
	1200668502		885030H09M092		9.2m								
	1200668511		885030H09M100		10m								
	1200668683		885030H09M150		15m								
	1200668684		885030H09M200		20m								
	8P CABLE P02												
	1200661455		888030P02M005		0.5m								
C	1200660579		888030P02M010		1m								
	1200668803		888030P02M010H		1m								
	1200660585		888030P02M100		10m								
	1200668807		888030P02M100H		10m								
	1200669353		888030P02M130		13m								
	1200660586		888030P02M150		15m								
	1200668808		888030P02M150H		15m								
	1200668327		888030P02M200		20m								
	1200668809		888030P02M200H		20m								
B	MOLEX PN		Engineering No.		Length								
	1200660580		888030P02M020		2m								
	1200668804		888030P02M020H		2m								
	1200660581		888030P02M030		3m								
	1200660582		888030P02M040		4m								
	1200660583		888030P02M050		5m								
	1200668806		888030P02M050H		5m								
	1200660584		888030P02M060		6m								
	1200668352		888030P02M250		25m								
	1200669133		888030P02M3008		30m								
A	1200668810		888030P02M350H		35m								
	1200668544		888030P02M500		50m								
	3P CABLE P03												
	1200070102		883030P03M003		0.3m								
	1200070104		883030P03M006		0.6m								
	1200660498		883030P03M010		1m								
	1200071123		883030P03M010H		1m								
	1200668691		883030P03M010YH		1m								
	1200660500		883030P03M020		2m								
	1200071131		883030P03M0201		2m								
	1200071114		883030P03M020H		2m								
	1200668690		883030P03M020YH		2m								
	1200660501		883030P03M030		3m								
	1200071122		883030P03M030H		3m								
	1200668646		883030P03M030HY		3m								
	1200072104		883030P03M040		4m								
	1200660502		883030P03M050		5m								
	1200071047		883030P03M050H		5m								
	1200668713		883030P03M050HY		5m								
	1200071288		883030P03M060		6m								
	1200070105		883030P03M100		10m								
	1200071273		883030P03M100H		10m								
	1200668712		883030P03M100HY		10m								
	1200072658		883030P03M120		12m								
	1200071053		883030P03M150		15m								
	MOLEX PN		Engineering No.		Length								
	4P CABLE P03												
	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								