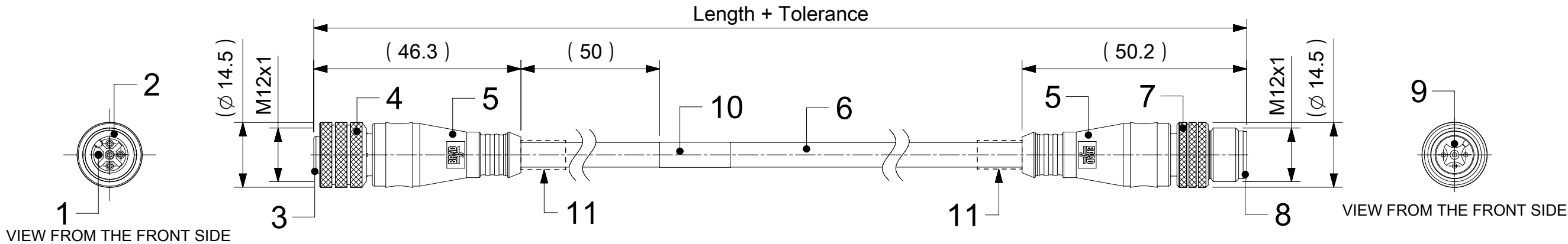


FEMALE PLUG M12 STRAIGHT TO MALE PLUG M12 STRAIGHT



NOTES:

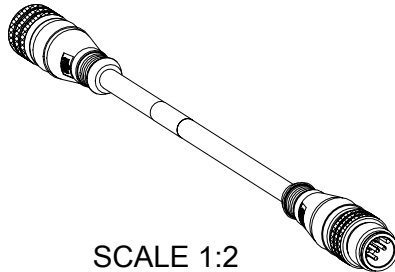
RATED VOLTAGE: 3, 4 contacts 250V per IEC 60664
5 contacts 60V per IEC 60664
5 contacts 250V per UL 2238
8 contacts 30V per IEC 60664

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 E A = 0 E = 0 E = 0 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)				EC NO: 769491 DRWN: VHANDI 2023/10/30 CHK'D: RSILLER 2023/11/21 APPR: RSILLER 2023/11/21 INITIAL REVISION: DRWN: JMARSZALEK 2016/09/16 APPR: RSILLER 2016/12/08			CSE M12 XP AC FE STR MA STR XM DE			
	ANGULAR TOL ± 1.0 °										
	4 PLACES		±					PRODUCT CUSTOMER DRAWING			
	3 PLACES		±								
	2 PLACES		± 0.05								
	1 PLACE		± 0.3								
0 PLACES		± 0.5		DOCUMENT NUMBER			DOC TYPE	DOC PART	REVISION		
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	1 OF 4	
							1200668084		PSD	000	A17

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

OPTIONS

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

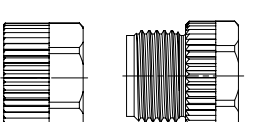
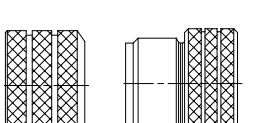
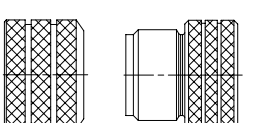
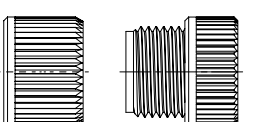
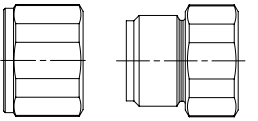
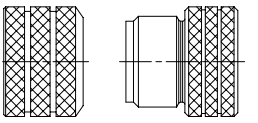
Length
Examples:
005=0.5 unit
010=1 unit
100=10 units

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

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 F A = 0 F C = 0 F E = 0 DIVISIONAL 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 EC NO: 769491 DRWN: VHANDI 2023/10/30 CHK'D: RSILLER 2023/11/21 APPR: RSILLER 2023/11/21					molex CSE M12 XP AC FE STR MA STR XM DE						
	mm		1:1													
	GENERAL TOLERANCES (UNLESS SPECIFIED)															
	ANGULAR TOL ± 1.0°									PRODUCT CUSTOMER DRAWING						
	4 PLACES		±													
	3 PLACES		±		INITIAL REVISION: DRWN: JMARSZALEK 2016/09/16 APPR: RSILLER 2016/12/08					DOCUMENT NUMBER			DOC TYPE	DOC PART	REVISION	
	2 PLACES		± 0.05							1200668084			PSD	000	A17	
	1 PLACE		± 0.3													
	0 PLACES		± 0.5													
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
-----------------	----	--------------	------------	----------

10	9	8	7	6	5	4	3	2	1		
PART LIST											
MOLEX PNEngineering No.Length			MOLEX PNEngineering No.Length			MOLEX PNEngineering No.Length			MOLEX PNEngineering No.Length		
1200668174884030H09M0303m			1200660580888030P02M0202m			4P CABLE P03			1200668086885030P03M02832.8m		
1200668380884030H09M0404m			1200668804888030P02M020H2m			1200070486884030P03M0030.3m			1200071408885030P03M0303m		
1200668244884030H09M0505m			1200660581888030P02M0303m			1200668687884030P03M0050.5m			1200668796885030P03M030H3m		
1200668550884030H09M050H5m			1200660582888030P02M0404m			1200070487884030P03M0060.6m			1200668163885030P03M0404m		
1200668737884030H09M0555.5m			1200660583888030P02M0505m			1200070488884030P03M0101m			1200071049885030P03M0505m		
1200669926884030H09M065H6.5m			1200668806888030P02M050H5m			1200072762884030P03M01011m			1200073049885030P03M05015m		
1200669927884030H09M070H7m			1200660584888030P02M0606m			1200072649884030P03M01051m			1200668797885030P03M050H5m		
1200669931884030H09M075H7.5m			1200668352888030P02M25025m			1200060050884030P03M0151.5m			1200668088885030P03M0707m		
1200669932884030H09M080H8m			1200669133888030P02M300830m			1200070489884030P03M0202m			1200071284885030P03M10010m		
1200668381884030H09M10010m			1200668810888030P02M350H35m			1200072763884030P03M02012m			1200668798885030P03M100H10m		
5P CABLE H09			1200668544888030P02M50050m			1200668754884030P03M020H2m			1200072656885030P03M12012m		
1200668509885030H09M0060.6m						1200060051884030P03M0303m			1200073084885030P03M15015m		
1200668497885030H09M0101m			3P CABLE P03			1200072764884030P03M03013m			1200669111885030P03M150H15m		
1200669756885030H09M015H1.5m			1200070102883030P03M0030.3m			1200072803884030P03M0404m			1200668238885030P03M20020m		
1200668500885030H09M0202m			1200070104883030P03M0060.6m			1200070490884030P03M0505m			1200668800885030P03M200H20m		
1200669762885030H09M020H2m			1200660498883030P03M0101m			1200072650884030P03M05055m			1200668775885030P03M30030m		
1200669757885030H09M025H2.5m			1200071123883030P03M010H1m			1200072010884030P03M050H5m			1200668801885030P03M300H30m		
1200668510885030H09M0303m			1200668691883030P03M010YH1m			1200072804884030P03M0606m			1200668802885030P03M350H35m		
1200669763885030H09M030H3m			1200660500883030P03M0202m			1200669717884030P03M0808m					
1200668853885030H09M0404m			1200071131883030P03M02012m			1200668815884030P03M08058m					
1200668501885030H09M0505m			1200071114883030P03M020H2m			1200071029884030P03M10010m					
1200668854885030H09M0606m			1200668690883030P03M020YH2m			1200665031884030P03M100H10m					
1200668502885030H09M0929.2m			1200660501883030P03M0303m			1200668720884030P03M15015m					
1200668511885030H09M10010m			1200071122883030P03M030H3m			1200072105884030P03M20020m					
1200668683885030H09M15015m			1200668646883030P03M030HY3m			1200668721884030P03M25025m					
1200668684885030H09M20020m			1200072104883030P03M0404m			1200668722884030P03M30030m					
			1200660502883030P03M0505m			1200668723884030P03M35035m					
8P CABLE P02			1200071047883030P03M050H5m			1200668724884030P03M40040m					
1200661455888030P02M0050.5m			1200668713883030P03M050HY5m			5P CABLE P03					
1200660579888030P02M0101m			1200071288883030P03M0606m			1200668903885030P03C1300.13m					
1200668803888030P02M010H1m			1200070105883030P03M10010m			1200073083885030P03M0060.6m					
1200660585888030P02M10010m			1200071273883030P03M100H10m			1200668794885030P03M006H0.6m					
1200668807888030P02M100H10m			1200668712883030P03M100HY10m			1200071947885030P03M0070.7m					
1200669353888030P02M13013m			1200072658883030P03M12012m			1200668084885030P03M0101m					
1200660586888030P02M15015m			1200071053883030P03M15015m			1200668795885030P03M010H1m					
1200668808888030P02M150H15m						1200668765885030P03M0151.5m					
1200668327888030P02M20020m						1200070596885030P03M0202m					
1200668809888030P02M200H20m						1200668602885030P03M020G2m					