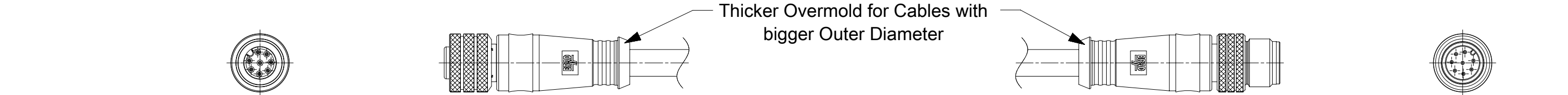
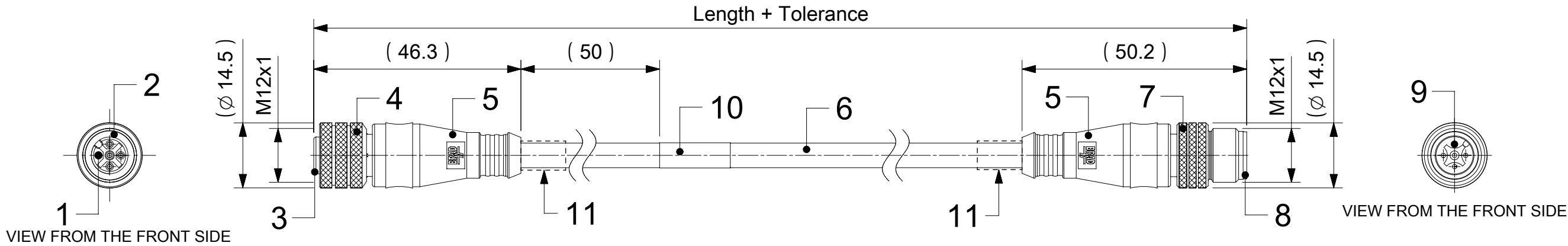


FEMALE PLUG M12 STRAIGHT TO MALE PLUG M12 STRAIGHT



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 <									

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

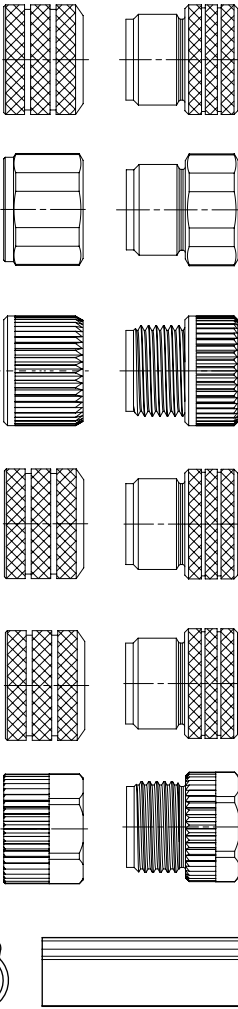
Length
Examples:
005=0.5 unit
010=1 unit
100=10 units

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

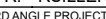
COUPLING NUTS
FEMALE MALE



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: ADDED NEW PNS					molex							
	mm		1:1														
	GENERAL TOLERANCES (UNLESS SPECIFIED)									EC NO: 692872 DRWN: MDHARMANTI 2021/12/02 CHK'D: RSILLER 2022/01/24 APPR: RSILLER 2022/01/24 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															
DIVISIONAL SYMBOLS	0 PLACES		± 0.5		DOCUMENT NUMBER					DOC TYPE		DOC PART		REVISION			
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				1200668084					PSD		000		A14			
					MATERIAL NUMBER					CUSTOMER					SHEET NUMBER		
				THIRD ANGLE PROJECTION		DRAWING		SERIES		SEE SHEET 3-4			GENERAL MARKET			2 OF 4	
						A3-SIZE		120066									

DOCUMENT STATUS	P1	RELEASE DATE	2022/01/24	16:46:28
-----------------	----	--------------	------------	----------

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	Engineering No.	Length
1	1200060049	884030E03M050	5m	36	1200071114	883030P03M020H	2m	106	1200668347	885030E03M100	10m
2	1200060050	884030P03M015	1.5m	37	1200071122	883030P03M030H	3m	107	1200668352	888030P02M250	25m
3	1200060051	884030P03M030	3m	38	1200071123	883030P03M010H	1m	108	1200668353	888030P02M350	35m
4	1200070081	883030E03M006	0.6m	39	1200071131	883030P03M0201	2m	109	1200668354	888030P02M400	40m
5	1200070083	883030E03M010	1m	40	1200071199	884030E03M200	20m	110	1200668370	883030E03M040	4m
6	1200070085	883030E03M020	2m	41	1200071273	883030P03M100H	10m	111	1200668373	883030H09M006	0.6m
7	1200070086	883030E03M0205	2m	42	1200071284	885030P03M100	10m	112	1200668374	883030H09M010	1m
8	1200070088	883030E03M030	3m	43	1200071288	883030P03M060	6m	113	1200668375	883030H09M030	3m
9	1200070091	883030E03M050	5m	44	1200071408	885030P03M030	3m	114	1200668376	883030H09M040	4m
10	1200070092	883030E03M0505	5m	45	1200071500	885030E03M005	0.5m	115	1200668377	883030H09M100	10m
11	1200070093	883030E03M100	10m	46	1200071583	885030E03M080	8m	116	1200668378	884030H09M006	0.6m
12	1200070102	883030P03M003	0.3m	47	1200071594	884030E03M015	1.5m	117	1200668379	884030H09M010	1m
13	1200070104	883030P03M006	0.6m	48	1200071596	884030E03M060	6m	118	1200668380	884030H09M040	4m
14	1200070105	883030P03M100	10m	49	1200071703	884030E03M0205	2m	119	1200668381	884030H09M100	10m
15	1200070470	884030E03M003	0.3m	50	1200071707	884030E03M0505	5m	120	1200668399	888030E02M003	0.3m
16	1200070472	884030E03M006	0.6m	51	1200071715	884030E03M150	15m	121	1200668486	884030H09M023	2.3m
17	1200070473	884030E03M010	1m	52	1200071774	884030E03M020H	2m	122	1200668487	885030E03M200	20m
18	1200070474	884030E03M020	2m	53	1200071793	884030E03M1501✱	15m	123	1200668491	888030H08M010	1m
19	1200070475	884030E03M030	3m	54	1200071881	884030E03M1005	10m	124	1200668497	885030H09M010	1m
20	1200070476	884030E03M100	10m	55	1200071947	885030P03M007	0.7m	125	1200668500	885030H09M020	2m
21	1200070486	884030P03M003	0.3m	56	1200071948	885030E03M040	4m	126	1200668501	885030H09M050	5m
22	1200070487	884030P03M006	0.6m	57	1200072010	884030P03M050H	5m	127	1200668502	885030H09M092	9.2m
23	1200070488	884030P03M010	1m	58	1200072081	885030E03M035	3.5m	128	1200668509	885030H09M006	0.6m
24	1200070489	884030P03M020	2m	59	1200072092	884030E03M040	4m	129	1200668510	885030H09M030	3m
25	1200070490	884030P03M050	5m	60	1200072104	883030P03M040	4m	130	1200668511	885030H09M100	10m
26	1200070586	885030E03M030	3m	61	1200072105	884030P03M200	20m	131	1200668521	885030E03M250	25m
27	1200070596	885030P03M020	2m	62	1200072172	884030E03M050H	5m	132	1200668528	885030E03M020H	2m
28	1200070906	885030E03M010	1m	63	1200072544	884030E03M120	12m	133	1200668530	885030E03M010H	1m
29	1200070969	885030E03M050	5m	64	1200072649	884030P03M0105	1m	134	1200668543	888030P02M450	45m
30	1200070970	885030E03M020	2m	65	1200072650	884030P03M0505	5m	135	1200668544	888030P02M500	50m
31	1200071006	883030E03M020H	2m	66	1200072656	885030P03M120	12m	136	1200668548	884030H09M006H	0.6m
32	1200071029	884030P03M100	10m	67	1200072658	883030P03M120	12m	137	1200668549	884030H09M010H	1m
33	1200071047	883030P03M050H	5m	68	1200072697	885030E03M060	6m	138	1200668550	884030H09M050H	5m
34	1200071049	885030P03M050	5m	69	1200072744	884030E03M0501✱	5m	139	1200668602	885030P03M020G	2m
35	1200071053	883030P03M150	15m	70	1200072762	884030P03M0101	1m	140	1200668609	885030E02M050	5m
NOTES:											
✱ - Part No. with Yellow PVC overmolding											
DOCUMENT STATUS				P1	RELEASE DATE		2022/01/24	16:46:28			
10	9	8	7	6	5	4	3	2	1		

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: ADDED NEW PNS			molex					
	mm		1:1										
	GENERAL TOLERANCES (UNLESS SPECIFIED)												
	ANGULAR TOL		± 1.0 °		EC NO: 692872 DRWN: MDHARMANTI 2021/12/02 CHK'D: RSILLER 2022/01/24 APPR: RSILLER 2022/01/24 INITIAL REVISION: DRWN: JMARSZALEK 2016/09/16 APPR: RSILLER 2016/12/08			PRODUCT CUSTOMER DRAWING					
	4 PLACES		±										
	3 PLACES		±										
	2 PLACES		± 0.05										
	1 PLACE		± 0.3										
	0 PLACES		± 0.5		DOCUMENT NUMBER			1200668084					
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
				A3-SIZE		120066		SEE PART LIST		GENERAL MARKET		3 OF 4	

DOCUMENT STATUS		P1	RELEASE DATE		2022/01/24	16:46:28			
10	9	8	7	6	5	4	3	2	1

FUNCTIONAL SYMBOLS

▽^A = 0

▽^E = 0

▽^F = 0

DIVISIONAL SYMBOLS

4 PLACES ±

3 PLACES ±

2 PLACES ± 0.05

1 PLACE ± 0.3

0 PLACES ± 0.5

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

DIMENSION UNITS

mm

SCALE

1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ± 1.0 °

EC NO: 692872

DRWN: MDHARMANTI

CHK'D: RSILLER

APPR: RSILLER

2021/12/02

2022/01/24

2022/01/24

INITIAL REVISION:

DRWN: JMARSZALEK

APPR: RSILLER

2016/09/16

2016/12/08

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

THIRD ANGLE PROJECTION

DRAWING

SERIES

A3-SIZE

120066

CURRENT REV DESC: ADDED NEW PNS

molex

CSE M12 XP AC FE STR MA STR XM DE

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER

1200668084

DOC TYPE

PSD

DOC PART

000

REVISION

A14

MATERIAL NUMBER

SEE PART LIST

CUSTOMER

GENERAL MARKET

SHEET NUMBER

3 OF 4

