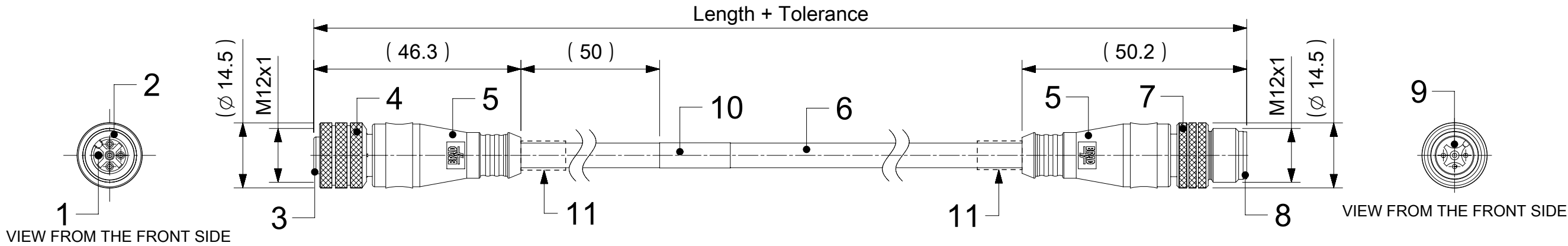


FEMALE PLUG M12 STRAIGHT TO MALE PLUG M12 STRAIGHT



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		DIMENSION UNITS		SCALE
mm		1:1		
GENERAL TOLERANCES (UNLESS SPECIFIED)		ANGULAR TOL		± 1.0 °
4 PLACES		±		
3 PLACES		±		0.05
2 PLACES		±		0.3
1 PLACE		±		0.5
0 PLACES		±		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		
DRAWING		SERIES		
A3-SIZE		120066		
EC NO: 769491		DRWN: VHANDI		2023/10/30
CHK'D: RSILLER		APPR: RSILLER		2023/11/21
INITIAL REVISION:		DRWN: JMARSZALEK		2016/09/16
APPR: RSILLER		2016/12/08		
DOCUMENT NUMBER		DOC TYPE		DOC PART
1200668084		PSD		000
REVISION		SHEET NUMBER		
A17		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

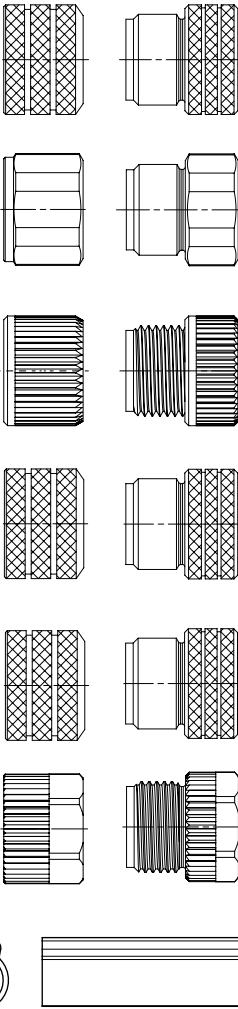
Length
Examples:
005=0.5 unit
010=1 unit
100=10 units

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		PRODUCT CUSTOMER DRAWING						
	3 PLACES ±		DRWN: VHANDI 2023/10/30								
	2 PLACES ± 0.05		CHK'D: RSILLER 2023/11/21								
	1 PLACE ± 0.3		APPR: RSILLER 2023/11/21		DOCUMENT NUMBER 1200668084			DOC TYPE PSD	DOC PART 000	REVISION A17	
	0 PLACES ± 0.5		INITIAL REVISION:								
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRWN: JMARSZALEK 2016/09/16								
		APPR: RSILLER 2016/12/08		MATERIAL NUMBER SEE SHEET 3-4			CUSTOMER GENERAL MARKET			SHEET NUMBER 2 OF 4	
THIRD ANGLE PROJECTION		DRAWING A3-SIZE									

DOCUMENT STATUS	P1	RELEASE DATE	2023/11/21	12:03:28
-----------------	----	--------------	------------	----------

PART LIST

MOLEX PN	Engineering No.	Length
3P CABLE E03		
1200070081	883030E03M006	0.6m
1200669153	883030E03M0101	1m
1200070083	883030E03M010	1m
1200071006	883030E03M020H	2m
1200070086	883030E03M0205	2m
1200070085	883030E03M020	2m
1200070088	883030E03M030	3m
1200668370	883030E03M040	4m
1200070092	883030E03M0505	5m
1200070091	883030E03M050	5m
1200669511	883030E03M060	6m
1200669499	883030E03M080	8m
1200070093	883030E03M100	10m
1200669500	883030E03M120	12m
1200669501	883030E03M140	14m
1200669502	883030E03M160	16m
1200669510	884030E03M160	16m
1200669503	883030E03M180	18m
1200669522	883030E03M200	20m
1200669523	883030E03M250	25m
4P CABLE E03		
1200669878	884030E03M002H	0.2m
1200070470	884030E03M003	0.3m
1200669879	884030E03M004H	0.4m
1200668672	884030E03M0051	0.5m
1200665009	884030E03M005	0.5m
1200070472	884030E03M006	0.6m
1200669880	884030E03M009H	0.9m
1200668062	884030E03M010H	1m
1200070473	884030E03M010	1m
1200669881	884030E03M013H	1.3m
1200071594	884030E03M015	1.5m
1200669882	884030E03M016H	1.6m
1200071774	884030E03M020H	2m
1200071703	884030E03M0205	2m
1200070474	884030E03M020	2m

MOLEX PN	Engineering No.	Length
1200669423	884030E03M025	2.5m
1200070475	884030E03M030	3m
1200669424	884030E03M035	3.5m
1200072092	884030E03M040	4m
1200072172	884030E03M050H	5m
1200071707	884030E03M0505	5m
1200072744	884030E03M0501	5m
1200060049	884030E03M050	5m
1200071596	884030E03M060	6m
1200668786	884030E03M070	7m
1200669508	884030E03M080	8m
1200071881	884030E03M1005	10m
1200070476	884030E03M100	10m
1200072544	884030E03M120	12m
1200669509	884030E03M140	14m
1200071793	884030E03M1501	15m
1200071715	884030E03M150	15m
1200669883	884030E03M180H	18m
1200071199	884030E03M200	20m
1200668718	884030E03M250	25m
1200668719	884030E03M300	30m
1200668770	884030E03M350	35m
1200668771	884030E03M400	40m
1200669884	884030E03M800H	80m
5P CABLE E03		
1200669957	885030E03M0017	0.17m
1200668972	885030E03M003	0.3m
1200071500	885030E03M005	0.5m
1200668338	885030E03M006	0.6m
1200668530	885030E03M010H	1m
1200070906	885030E03M010	1m
1200668528	885030E03M020H	2m
1200070970	885030E03M020	2m
1200668973	885030E03M025	2.5m
1200668985	885030E03M030H	3m
1200070586	885030E03M030	3m
1200072081	885030E03M035	3.5m

MOLEX PN	Engineering No.	Length
1200668981	885030E03M040H	4m
1200071948	885030E03M040	4m
1200070969	885030E03M050	5m
1200668982	885030E03M060H	6m
1200072697	885030E03M060	6m
1200668652	885030E03M070	7m
1200668980	885030E03M080H	8m
1200071583	885030E03M080	8m
1200669905	885030E03M085H	8.5m
1200669906	885030E03M090H	9m
1200668347	885030E03M100	10m
1200669907	885030E03M110H	11m
1200668674	885030E03M150	15m
1200668487	885030E03M200	20m
1200668521	885030E03M250	25m
1200668784	885030E03M300	30m
1200668785	885030E03M350	35m
3P CABLE E02		
1200668662	883030E02M006	0.6m
1200669609	883030E02M0201	2m
1200669561	883030E02M050	5m
4P CABLE E02		
1200668661	884030E02M0031	0.3m
5P CABLE E02		
1200668664	885030E02M010	1m
1200668657	885030E02M020	2m
1200668609	885030E02M050	5m
1200668656	885030E02M100	10m
8P CABLE E02		
1200668399	888030E02M003	0.3m
1200668777	888030E02M020	2m
1200668288	888030E02M025	2.5m
1200668778	888030E02M030	3m
1200668779	888030E02M050	5m
1200668780	888030E02M100	13m
1200669477	888030E02M300	30m
1200669478	888030E02M400	40m
1200669479	888030E02M500	50m

MOLEX PN	Engineering No.	Length
4P CABLE H08		
1200668689	884030H08M030	3m
8P CABLE H08		
1200669314	888030H08C250	0.25m
1200669310	888030H08M005	0.5m
1200669311	888030H08M008	0.8m
1200668491	888030H08M010	1m
1200669312	888030H08M012	1.2m
1200669313	888030H08M015	1.5m
1200669117	888030H08M040	4m
1200669212	888030H08M050	5m
1200669958	888030H08M070	7.0m
1200668774	888030H08M100	10m
1200669161	888030H08M150	15m
1200669437	888030H08M200	20m
1200669955	888030H08M300	30m
3P CABLE H09		
1200668373	883030H09M006	0.6m
1200668374	883030H09M010	1m
1200669134	883030H09M015	1.5m
1200668375	883030H09M030	3m
1200669350	883030H09M030H	3m
1200668376	883030H09M040	4m
1200668377	883030H09M100	10m
1200669135	883030H09M200	20m
4P CABLE H09		
1200668715	884030H09M003	0.3m
1200668378	884030H09M006	0.6m
1200668548	884030H09M006H	0.6m
1200668379	884030H09M010	1m
1200668549	884030H09M010H	1m
1200669752	884030H09M015H	1.5m
1200669759	884030H09M020H	2m
1200668234	884030H09M020	2m
1200668714	884030H09M0209	2m
1200668486	884030H09M023	2.3m
1200669753	884030H09M025H	2.5m
1200669758	884030H09M030H	3m

FUNCTIONAL SYMBOLS

√A=

0

√E=

0

√E=

0

DIVISIONAL SYMBOLS

4 PLACES

±

3 PLACES

±

2 PLACES

±

0.05

1 PLACE

±

0.3

0 PLACES

±

0.5

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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

mm

1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ± 1.0 °

EC NO: 769491

DRWN: VHANDI

CHK'D: RSILLER

APPR: RSILLER

2023/10/30

2023/11/21

2023/11/21

INITIAL REVISION:

DRWN: JMARSZALEK

APPR: RSILLER

2016/09/16

2016/12/08

THIRD ANGLE PROJECTION

DRAWING

SERIES

A3-SIZE

120066

CURRENT REV DESC: NEW P/N'S ADDED TO THE DRAWING 12335

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER

1200668084

DOC TYPE

PSD

DOC PART

000

REVISION

A17

MATERIAL NUMBER

SEE PART LIST

CUSTOMER

GENERAL MARKET

SHEET NUMBER

3 OF 4

NOTES:
* - Part No. with Yellow PVC overmolding

DOCUMENT STATUS	P1	RELEASE DATE	2023/11/21	12:03:28
-----------------	----	--------------	------------	----------

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

9

8

7

6

5

4

3

2

1

