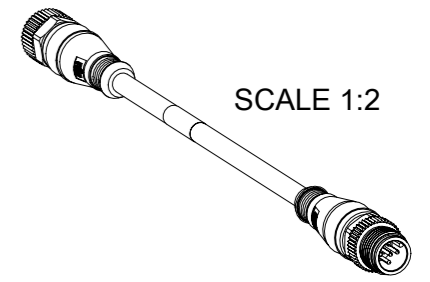


# FEMALE PLUG M12 STRAIGHT TO MALE PLUG M12 STRAIGHT



**NOTES:**

- CONTACT CURRENT RATING: 3-5 POLES 4A  
8 POLES 2A
- VOLTAGE RATING: 3-4 POLES 250V  
5 POLES 60V DC  
8 POLES 30V
- PROTECTION CLASS: IP 67
- TEMPERATURE: -25°C / +85°C



**CONTACT POSITION FRONT VIEW:**

	3 POLES		4 POLES		5 POLES		5 POLES		8 POLES	
CABLE	B30, B55		B30, B33, B36, B55		B30, B33, B36, B55		B42		B41, B49	
FEMALE										
MALE										
CONNECTIONS	PIN	WIRE	PIN	WIRE	PIN	WIRE	PIN	WIRE	PIN	WIRE
	1	BROWN	1	BROWN	1	BROWN	1	BROWN	1	WHITE
	2	---	2	WHITE	2	WHITE	2	WHITE	2	BROWN
	3	BLUE	3	BLUE	3	BLUE	3	BLUE	3	GREEN
	4	BLACK	4	BLACK	4	BLACK	4	BLACK	4	YELLOW
			5	---	5	GREY	5	GREEN/YELLOW	5	GREY
									6	PINK
									7	BLUE
									8	RED

CODING REQUIRED TO IEC 61076-2-101

**FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2**

ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH
10	1	LABEL OR PRINTING	VINYL / ---	---
9	3 / 4 / 5	CONTACT M12 MALE	COPPER	SELECTIVE GOLD OVER NICKEL
	8		BRASS	SELECTIVE GOLD OVER NICKEL
8	1	INSERT MALE BLACK	TPU	---
7	1	COUPLING NUT MALE	SEE SHEET 2	SEE SHEET 2
6	-	CABLE	SEE SHEET 2	---
5	-	OVERMOULDING	TPU	SEE SHEET 2
4	1	COUPLING NUT FEMALE	SEE SHEET 2	SEE SHEET 2
3	1	INSERT FEMALE BLACK	PUR	---
2	1	ORING RED	FPM	---
1	3 / 4 / 5	CONTACT M12 FEMALE	BRONZE	SELECTIVE GOLD OVER NICKEL
	8		BRASS	SELECTIVE GOLD OVER NICKEL

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		
mm	1:1			
GENERAL TOLERANCES (UNLESS SPECIFIED)				
ANGULAR TOL	± 1.0°	CSE M12 XP AC FE STR WSOR MA STR XM DE		
4 PLACES	±	EC NO: 687807	PRODUCT CUSTOMER DRAWING	
3 PLACES	±	DRWN: RSCHIEBER	2021/12/01	
2 PLACES	± 0.05	CHK'D: RSILLER	2021/12/07	
1 PLACE	± 0.3	APPR: RSILLER	2021/12/07	
0 PLACES	± 0.5	INITIAL REVISION:	DOCUMENT NUMBER	
		DRWN: JMARSZALEK	2016/07/22	1200668993
		APPR: RSILLER	2016/08/29	PSD 000 A16
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER
		A3-SIZE	120066	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

8 8 X 0 3 0 X X X X X X X X

88=M12x1 Double ended

Poles:  
3=3 Poles  
4=4 Poles  
5=5 Poles  
8=8 Poles

Heads style:  
030=Plug Female Straight to Plug Male Straight

Cable type: See Table

Units:  
M=Meter  
C=Centimeter  
T=10x Meter

Length  
Examples:  
005=0.5 units  
010=1 units  
020=1 units  
050=5 units  
100=10 units  
150=15 units  
200=20 units

Overmold color:  
Blank (Standard)=Black  
A=Grey / G=Black / Y=Yellow / R=Red

Coupling Nut:  
Blank (Standard)=Knurled/Hex Brass, Ni Plated  
5=Knurled Derlin  
7=Knurled Brass Ni Plated, Teflon Coated

H= 2 pcs. of I/D Carrier PVC Transparent  
(Cable B36 always with 2 pcs. I/D Carrier)

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: TEMP. / BENDING RADIUS	DRAG CHAIN	CABLE PRODUCT SPECIFICATION	CABLE SPEC. DRAWING
B30	3 / 4 / 5	0.34mm <sup>2</sup>	TPU Black	UL 21215/758	C22.2 I/II A/B 80°/600V	-40°C to +90°C 5xO.D.	-25°C to +80°C 7.5xO.D.	-5°C to +60°C 7.5xO.D.	up to 5 000 000 cycles at temp 20°C	1552200001	SD-120209-001
B33	4 / 5	0.34mm <sup>2</sup>	TPU Gray								SD-120209-001
B36	4 / 5	0.34mm <sup>2</sup>	TPU Orange								SD-120209-001
B41	8	0.25mm <sup>2</sup>	TPU Black								SD-120209-006
B42	5	0.34mm <sup>2</sup>	TPU Black								SD-120209-001
B49	8	0.25mm <sup>2</sup>	TPU Orange								SD-120209-006
B55	3 / 4 / 5	0.34mm <sup>2</sup>	TPU Yellow	n/a							

CABLE LENGTH TOLERANCES

LENGTH	TOLERANCE
0m-1m	+40 mm
>1m-5m	+60 mm
>5m-10m	+80 mm
>10m-20m	+140 mm
>20m-30m	+160 mm
>30m	+1% length

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°

4 PLACES ± 0.15  
3 PLACES ± 0.10  
2 PLACES ± 0.05  
1 PLACE ± 0.3  
0 PLACES ± 0.5

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

THIRD ANGLE PROJECTION

DRAWING: A3-SIZE

SERIES: 120066

MATERIAL NUMBER: SEE SHEET 3 & 4

CUSTOMER: GENERAL MARKET

SHEET NUMBER: 2 OF 4

EC NO: 687807  
DRWN: RSCHIEBER 2021/12/01  
CHK'D: RSILLER 2021/12/07  
APPR: RSILLER 2021/12/07

INITIAL REVISION:  
DRWN: JMARSZALEK 2016/07/22  
APPR: RSILLER 2016/08/29

CURRENT REV DESC: NEW P/N'S ADDED

**molex**

CSE M12 XP AC FE STR WSOR MA STR XM DE

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER: 1200668993  
DOC TYPE: PSD  
DOC PART: 000  
REVISION: A16


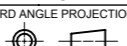
PART LIST

Lp.	MOLEX PN	ENGINEERING No	L [mm]
1	1200656067	885030B30M005H	500
2	1200659548	885030B42M150	15000
3	1200659549	885030B42M200	20000
4	1200659666	885030B30M005	500
5	1200659667	885030B30M025	2500
6	1200665456	884030B30M010R	1000
7	1200665457	884030B30M020R	2000
8	1200665458	884030B30M030R	3000
9	1200665459	884030B30M040R	4000
10	1200665460	884030B30M050R	5000
11	1200665461	888030B41M010R	1000
12	1200668817	884030B30M006	600
13	1200668818	884030B30M010	1000
14	1200668819	884030B30M020	2000
15	1200668820	884030B30M030	3000
16	1200668821	884030B30M050	5000
17	1200668822	884030B30M100	10000
18	1200668823	885030B42M006	600
19	1200668824	885030B42M010	1000
20	1200668825	885030B42M020	2000
21	1200668826	885030B42M030	3000
22	1200668827	885030B42M050	5000
23	1200668828	885030B42M100	10000
24	1200668859	884030B36M0507Y	5000
25	1200668860	884030B36M1007Y	10000
26	1200668863	884030B30M070	7000
27	1200668889	883030B30M006	600
28	1200668890	883030B30M010	1000
29	1200668891	883030B30M020	2000
30	1200668892	883030B30M030	3000

Lp.	MOLEX PN	ENGINEERING No	L [mm]
31	1200668893	883030B30M050	5000
32	1200668894	883030B30M100	10000
33	1200668895	888030B41M006	600
34	1200668896	888030B41M010	1000
35	1200668897	888030B41M020	2000
36	1200668898	888030B41M030	3000
37	1200668899	888030B41M050	5000
38	1200668900	888030B41M100	10000
39	1200668913	884030B30M150	15000
40	1200668914	884030B30M200	20000
41	1200668915	884030B30M250	25000
42	1200668916	884030B30M300	30000
43	1200668991	885030B30M006	600
44	1200668992	885030B30M010	1000
45	1200668993	885030B30M020	2000
46	1200668994	885030B30M030	3000
47	1200668995	885030B30M050	5000
48	1200668996	885030B30M100	10000
49	1200669019	884030B36M0057Y	500
50	1200669020	884030B36M0107Y	1000
51	1200669021	884030B36M0157Y	1500
52	1200669022	884030B36M0207Y	2000
53	1200669023	884030B36M0307Y	3000
54	1200669024	884030B36M0407Y	4000
55	1200669025	884030B36M0607Y	6000
56	1200669026	884030B36M0807Y	8000
57	1200669027	884030B36M1207Y	12000
58	1200669028	884030B36M1507Y	15000
59	1200669029	884030B36M2007Y	20000
60	1200669030	884030B36M2507Y	25000

Lp.	MOLEX PN	ENGINEERING No	L [mm]
61	1200669031	884030B36M3007Y	30000
62	1200669032	885030B36M0057Y	500
63	1200669033	885030B36M0107Y	1000
64	1200669034	885030B36M0207Y	2000
65	1200669035	885030B36M0307Y	3000
66	1200669036	885030B36M0407Y	4000
67	1200669037	885030B36M0507Y	5000
68	1200669038	885030B36M0607Y	6000
69	1200669039	885030B36M0807Y	8000
70	1200669040	885030B36M1007Y	10000
71	1200669041	885030B36M1207Y	12000
72	1200669042	885030B36M1507Y	15000
73	1200669043	885030B36M1807Y	18000
74	1200669044	885030B36M2007Y	20000
75	1200669045	885030B36M2507Y	25000
76	1200669046	885030B36M3007Y	30000
77	1200669112	888030B49M038Y	3800
78	1200669140	885030B36M8507Y	85000
79	1200669144	884030B30M025	2500
80	1200669145	885030B30M015	1500
81	1200669157	884030B30M002	200
82	1200669158	884030B30M030R	3000
83	1200669177	888030B41M090	9000
84	1200669181	884030B30M040	4000
85	1200669182	884030B30M060	6000
86	1200669223	884030B33M010	1000
87	1200669224	884030B33M020	2000
88	1200669225	884030B33M030	3000
89	1200669226	884030B33M050	5000
90	1200669242	885030B30M0107	1000

Lp.	MOLEX PN	ENGINEERING No	L [mm]
91	1200669247	885030B33M020	2000
92	1200669248	885030B33M100	10000
93	1200669249	885030B33M200	20000
94	1200669250	884030B33M005	500
95	1200669251	884030B33M100	10000
96	1200669252	884030B33M200	20000
97	1200669253	885030B33M030	3000
98	1200669254	885030B33M050	5000
99	1200669255	885030B33M300	30000
100	1200669256	884030B33M300	30000
101	1200669257	885030B33M005	500
102	1200669258	885030B33M010	1000
103	1200669263	884030B55M020	2000
104	1200669264	884030B55M030	3000
105	1200669265	884030B55M040	4000
106	1200669266	884030B55M050	5000
107	1200669267	884030B55M060	6000
108	1200669268	884030B55M100	10000
109	1200669269	884030B55M120	12000
110	1200669270	884030B55M150	15000
111	1200669271	884030B55M200	20000
112	1200669280	884030B33M040	4000
113	1200669418	884030B55M070	7000
114	1200669480	884030B30M005	500
115	1200669481	884030B30M080	8000
116	1200669482	885030B30M040	4000
117	1200669483	885030B30M300	30000
118	1200669484	885030B30M060	6000
119	1200669485	885030B30M080	8000
120	1200669486	885030B30M150	15000

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							
mm	1:1	 CSE M12 XP AC FE STR WSOR MA STR XM DE							
GENERAL TOLERANCES (UNLESS SPECIFIED)									
ANGULAR TOL	± 1.0 °	EC NO: 687807 DRWN: RSCHIEBER 2021/12/01 CHK'D: RSILLER 2021/12/07 APPR: RSILLER 2021/12/07 INITIAL REVISION: DRWN: JMARSZALEK 2016/07/22 APPR: RSILLER 2016/08/29							
4 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		1200668993			PSD		000		A16
THIRD ANGLE PROJECTION		DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER		SHEET NUMBER		
		A3-SIZE	120066	SEE SHEET 3 & 4	GENERAL MARKET		3 OF 4		

