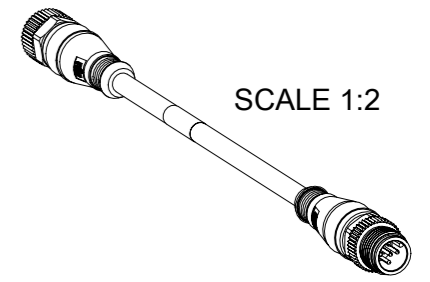


FEMALE PLUG M12 STRAIGHT TO MALE PLUG M12 STRAIGHT



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: mm SCALE: 1:1

GENERAL TOLERANCES (UNLESS SPECIFIED):
 ANGULAR TOL ± 1.0°
 4 PLACES ±
 3 PLACES ±
 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: 1 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

DOCUMENT NUMBER: 1200668993

DOC TYPE: PSD

DOC PART: 000

REVISION: A16

PRODUCT CUSTOMER DRAWING

molex

CSE M12 XP AC FE STR WSOR MA STR XM DE

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 ²	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 ²	TPU Gray								SD-120209-001
B36	4 / 5	0.34mm ²	TPU Orange								SD-120209-001
B41	8	0.25mm ²	TPU Black								SD-120209-006
B42	5	0.34mm ²	TPU Black								SD-120209-001
B49	8	0.25mm ²	TPU Orange								SD-120209-006
B55	3 / 4 / 5	0.34mm ²	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

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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

10 9 8 7 6 5 4 3 2 1

PART LIST

Table with 4 columns: Lp., MOLEX PN, ENGINEERING No, L [mm]. Rows 1-30.

Table with 4 columns: Lp., MOLEX PN, ENGINEERING No, L [mm]. Rows 31-60.

Table with 4 columns: Lp., MOLEX PN, ENGINEERING No, L [mm]. Rows 61-90.

Table with 4 columns: Lp., MOLEX PN, ENGINEERING No, L [mm]. Rows 91-120.

DOCUMENT STATUS | P1 | RELEASE DATE | 2021/12/07 06:44:37

Technical drawing information including dimension units (mm), scale (1:1), product description, revision history, and drawing metadata.

10 9 8 7 6 5 4 3 2 1

