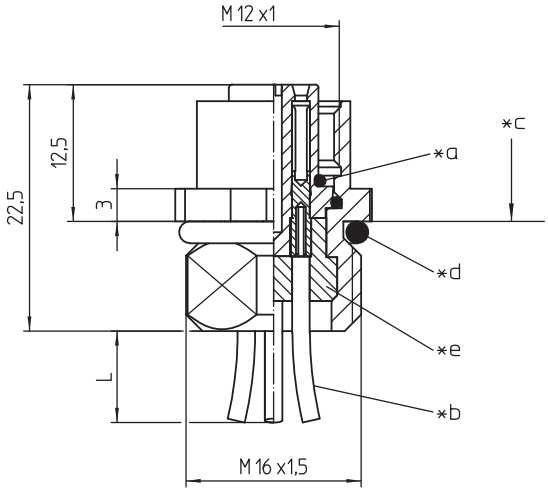
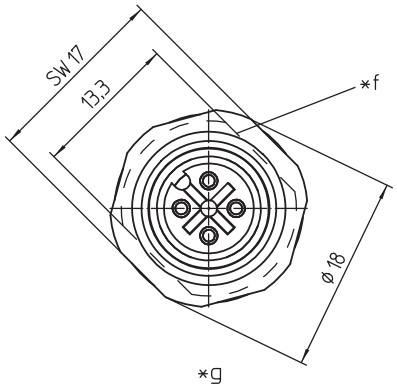
M12 1220 ... T16CW ...

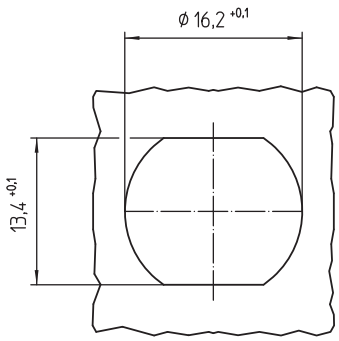
Panel Mount Connectors M12

M12 panel mount connector, female, A-coded, IP67, for front mounting, thread M16, with nut and stranded wires

M12 1220 ... T16CW ...







Environmental conditions

Temperature range	-25 °C/+80 °C

Materials

Insulating body	PA
Contact bush	CuZn, pre-nickel and gold-plated
Housing	CuZn, nickel-plated
Hexagonal nut	CuZn, nickel-plated
Seal	NBR

Mechanical data

Mating cycles	≥ 100
Insertion force	≤ 10 N [1]
Withdrawal force	≤ 15 N [1]
Protection class	IP67 [2]

[1] measured with a proper counterpart

[2] according to IEC DIN EN 60529, only in locked condition with an appropriate counterpart

Electrical data (at T_{amb} 20 °C)

Contact resistance	≤ 5 mΩ
Rated current	4 A (3–5 poles) 2 A (8 poles) 1.5 A (12 poles) (T_{amb} 40 °C)
Rated voltage	250 V AC/DC (3–4 poles) 60 V AC/DC (5 poles) 30 V AC/DC (8–12 poles) [1]
Rated impulse voltage	2500 V (3–4 poles) 1500 V (5 poles) 800 V (8–12 poles) [1]
Material group	I (IEC)/0 (UL) (CTI ≥ 600) [2]
Overvoltage category	II [2]
Insulation resistance	> 100 MΩ

[1] acc. to IEC 60664/DIN EN 60664/CTI UL classification acc. to ANSI/UL 746A

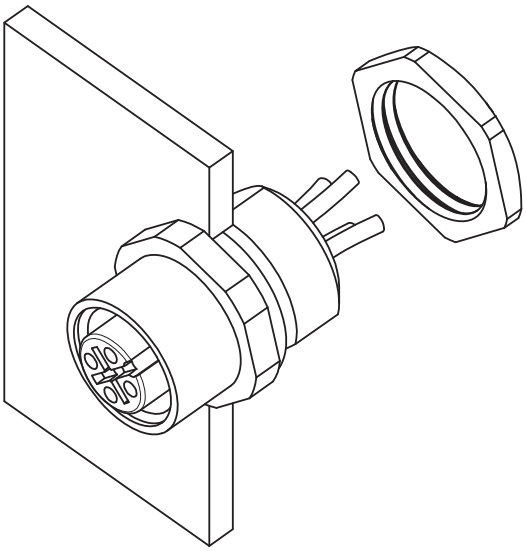
[2] acc. to IEC 60664/DIN EN 60664/CTI UL classification acc. to ANSI/UL 746A

Associated products

Counterparts

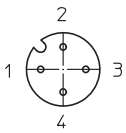
1210 ... 0...	1210 ... 3...	1210 ...S9 6...
1210 ...S9 7...	1210 0800 ... 3...	1210 0806 ... L1 3...
1210 1200 ... 0...	1210 1200 ... 3...	1210 1205 ... 3...
1210 1206 ... L1 0...	1210 1206 ... L1 3...	1210 1206 ... L2 0...
1210 1206 ... L2 3...	1250 ... T...CI	1250 ... T...CR
1255 ... T...CR	5512 02 MFF	

M12 1220 ... T16CW ...



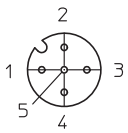
Accessories
9912 CPF0

Pin assignment for female M12 connectors, A-coded, front view



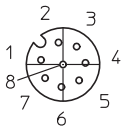
4 pole

1	brown
2	white
3	blue
4	black



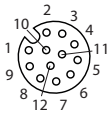
5 pole

1	brown
2	white
3	blue
4	black
5	green/yellow



8 pole

1	white
2	brown
3	green
4	yellow
5	gray
6	pink
7	blue
8	red



12 pole

1	brown
2	blue
3	white
4	green
5	pink
6	yellow
7	black
8	gray
9	red
10	violet
11	gray/pink
12	red/blue

M12 1220 ... T16CW ...

*a O-ring gasket
*b stranded wire
*c mounting direction
*d O-ring gasket
*e contact area potted
*f anti-rotation
*g port in mounting plate

M12 1220 ... T16CW ...

Designation	Pole Number	Connected Cable	PU (Pieces)	MDQ (Pieces)	Dimensions L (mm)
1220 04 T16CW 0,5m	4	PVC, brown/white/blue/black, 4 x 0.34 mm² (AWG 22), UL-style 1007	10	10	500
1220 04 T16CW 1m	4	PVC, brown/white/blue/black, 4 x 0.34 mm² (AWG 22), UL-style 1007	10	10	1000
1220 05 T16CW 0,5m	5	PVC, brown/white/blue/black/green-yellow, 4 x 0.34 mm² (AWG 22)/1 x 0.5 mm² (AWG 20), UL-style 1007	10	10	500
1220 08 T16CW 0,5m	8	PVC, white/brown/green/yellow/grey/pink/blue/red, 8 x 0.25 mm² (AWG 24), UL-style 1007	10	10	500
1220 12 T16CW 0,5m	12	PVC, brown/blue/white/green/pink/yellow/black/gray/red/violet/gray-pink/ red-blue, 12 x 0.14 mm² (AWG 26), UL-style 1007	10	10	500

Packaging:
in a plastic bag