M12 1210 1206 ... L1 3...

Cordsets M12

Actuator/sensor cordset with overmolded connectors

Cable end 1:

M12 male, straight, A-coded, IP67

Cable end 2:

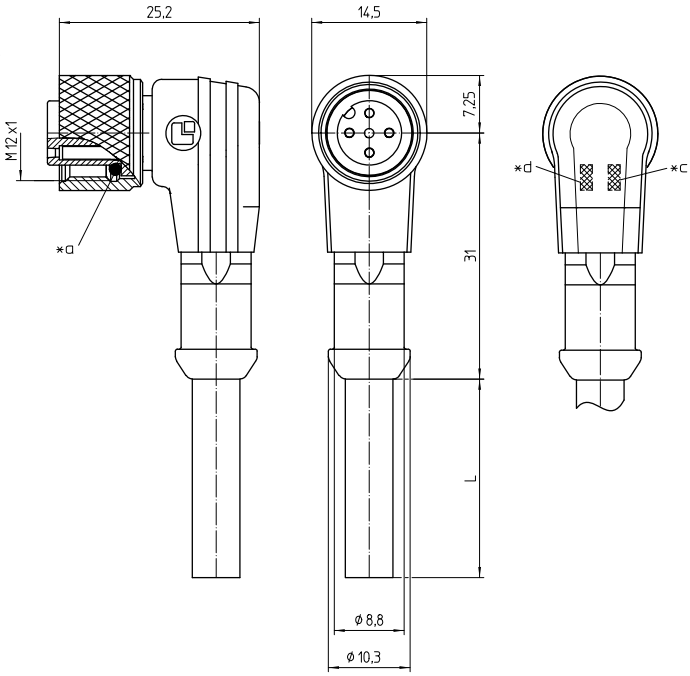
M12 female, angled, with LED L1, A-coded, IP67

Cable:

PUR, black

Approvals: c UL us pending

M12 1210 1206 ... L1 3...



Environmental conditions

Temperature range	≤ 15 N [1]

[1] measured with a proper counterpart

Materials

Insulating body	TPU GF, HB according to UL94
Contact bush	CuZn, pre-nickel and gold-plated
Contact pin	CuZn, pre-nickel and gold-plated
Overmolding/handle	TPU [1]
Knurled screw	CuZn, nickel-plated
Knurled nut	CuZn, nickel-plated
Seal	FKM

[1] material halogen-free

Mechanical data

Mating cycles	≥ 100
Insertion force	≤ 10 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

Connected cable

Outer jacket	PUR, black

Electrical data (at T_{amb} 20 °C)

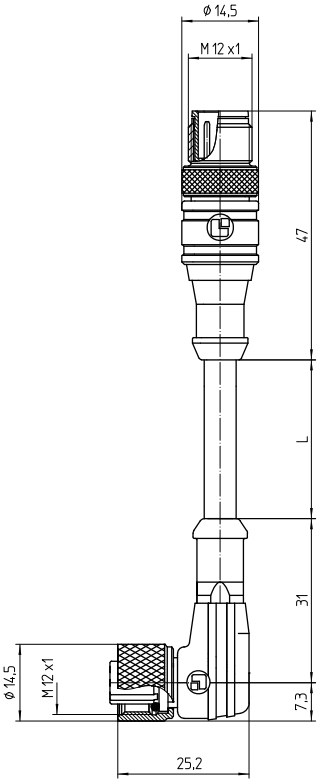
Contact resistance	≤ 10 mΩ
Rated current	4 A (T_{amb} 40 °C)
Rated voltage	30 V DC
Material group	I (IEC)/0 (UL) (CTI = 600)
Insulation resistance	> 100 MΩ

Associated products

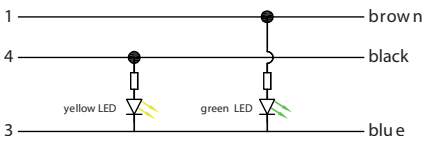
Counterparts

1200 ... 0...	1200 ... 3...	1205 ... 0...
1205 ... 3...	1210 ... 0...	1210 ... 3...
1220 ... T16CW ...	1220 ... T20CW100 ...	1220 ... T20CW101 ...
1220 ... T20CW102 ...	1220 ... T20CW103 ...	1220 ... T20CW104 ...
1220 ... T20CW105 ...	1221 ... T16CW100 ...	1221 ... T9CP
1230 ... T16CW ...	1230 ... T16CW100 ...	1230 ... T16CW101 ...
1230 ... T16CW102 ...	1230 ... T16CW103 ...	1230 ... T16CW104 ...
1230 ... T16CW105 ...	1230 ... TF1CW004 ...	1231 ... T16CW100 ...

M12 1210 1206 ... L1 3...



Connection diagram (PNP, normally open)

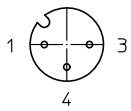


- 1231 ... T9CP
- 1239 ... T0CB
- 1240 ... T...CI
- 1240 ... T...CR
- 1245 ... T...CR
- 1250 ... T...CI
- 1250 ... T...CR
- 1255 ... T...CR
- 5012 02 MFF
- 5500 04DL1 3...
- 5500 04L1 3...
- 5500 08DL1 3...
- 5500 08L1 3...
- 5512 02 FMF
- 5512 02 MFF
- 5512 04DL1
- 5512 04L1
- 5512 08L1

Accessories

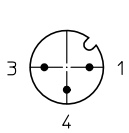
- 9912 CPF0
- 9912 CPM0
- 9912 MRBU
- 9912 MRGN
- 9912 MRRD
- 9912 MRWH
- 9912 MRYE

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

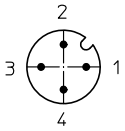


3 pole
1 brown
3 blue
4 black

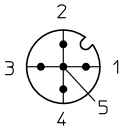
Pin assignment for male M12 connectors, A-coded, front view



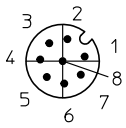
3 pole
1 brown
3 blue
4 black



4 pole
1 brown
2 white
3 blue
4 black



5 pole
1 brown
2 white
3 blue
4 black
5 gray



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

*a O-ring gasket
*c operation indicator green
*d function indicator yellow

M12 1210 1206 ... L1 3...

Designation	Pole Number	Connected Cable	PU (Pieces)	MDQ (Pieces)	Dimensions L (mm)
1210 1206 03 L1 300 0,3m	3	PUR, black, 3 x 0.34 mm² (AWG 22), 910300, UL-style 20549	5	10	300
1210 1206 03 L1 300 1m	3	PUR, black, 3 x 0.34 mm² (AWG 22), 910300, UL-style 20549	5	10	1000
1210 1206 03 L1 300 2m	3	PUR, black, 3 x 0.34 mm² (AWG 22), 910300, UL-style 20549	5	10	2000
1210 1206 03 L1 300 5m	3	PUR, black, 3 x 0.34 mm² (AWG 22), 910300, UL-style 20549	1	10	5000

Packaging:
in a plastic bag