

M12

1210 1206 ... L1 0...

Cordsets M12



Actuator/sensor cordset with overmolded connectors

Cable end 1:

M12 male, straight, A-coded, IP67

Cable end 2:

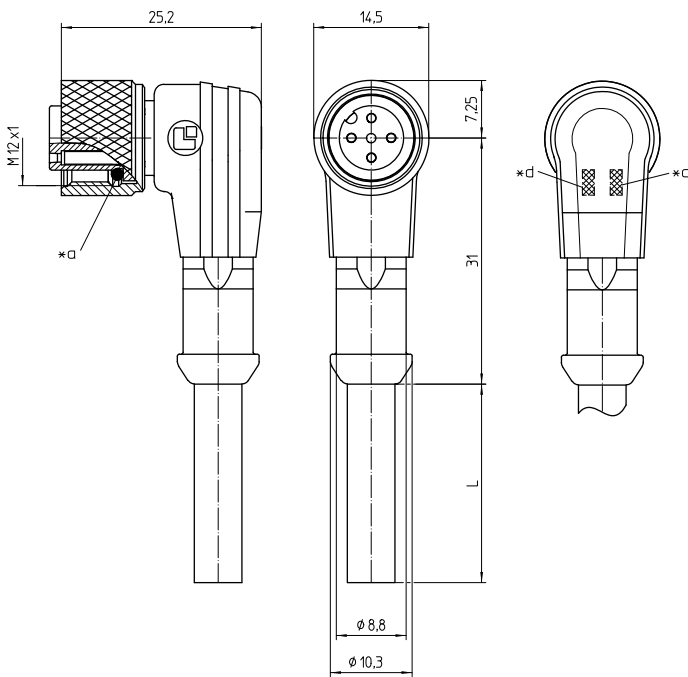
M12 female, angled, with LED L1, A-coded, IP67

Cable:

PVC, black

Approvals:  US pending

M12 1210 1206 ... L1 0...



Environmental conditions

Temperature range -25 °C/+80 °C

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	PVC 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
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

Connected cable

Outer jacket PVC, black

Electrical data (at T_{amb} 20 °C)

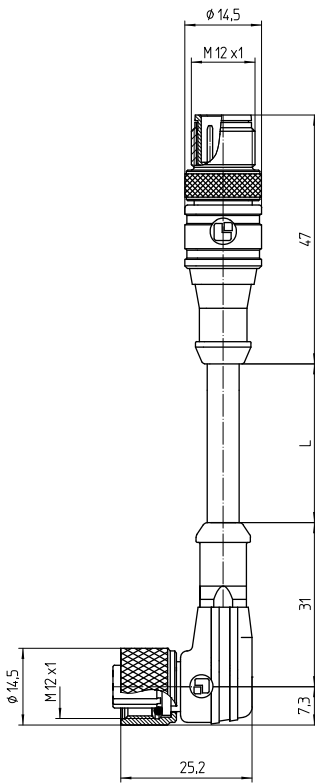
Contact resistance	≤ 10 mΩ
Rated current	4 A (T _{amb} 40 °C)
Rated voltage	30 V DC
Material group	I (IEC)/0 (UL) (CTI = 600)
Insulation resistance	> 100 MΩ

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 ...	☞ 1231 ... T16CW100 ...	☞ 1231 ... T9CP

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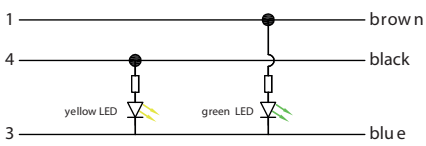


- | | | |
|-------------------|-------------------|-------------------|
| ☞ 1239 ... T0CB | ☞ 1240 ... T...CR | ☞ 1245 ... T9CR |
| ☞ 1250 ... T...CR | ☞ 1255 ... T9CR | ☞ 5500 04DL1 3... |
| ☞ 5500 04L1 3... | ☞ 5500 08DL1 3... | ☞ 5500 08L1 3... |
| ☞ 5512 04DL1 | ☞ 5512 04L1 | ☞ 5512 08L1 |

Accessories

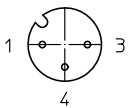
- | | | |
|-------------|-------------|-------------|
| ☞ 9912 CPF0 | ☞ 9912 CPM0 | ☞ 9912 MRBU |
| ☞ 9912 MRGN | ☞ 9912 MRRD | ☞ 9912 MRWH |
| ☞ 9912 MRYE | | |

Connection diagram (PNP, normally open)



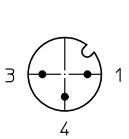
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Pin assignment for female M12 connectors, A-coded, front view

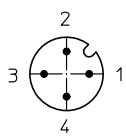


- 3 pole
 1 brown
 3 blue
 4 black

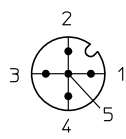
Pin assignment for male M12 connectors, A-coded, front view



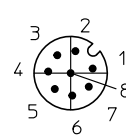
- 3 pole
 1 brown
 3 blue
 4 black



- 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 0...

Designation	Pole Number	Connected Cable	PU (Pieces)	MDQ (Pieces)	Dimensions L (mm)
1210 1206 03 L1 001 0,3m	3	PVC, black, 3 x 0.34 mm ² (AWG 22), 910001, UL-style 2464	5	10	300
1210 1206 03 L1 001 1m	3	PVC, black, 3 x 0.34 mm ² (AWG 22), 910001, UL-style 2464	5	10	1000
1210 1206 03 L1 001 2m	3	PVC, black, 3 x 0.34 mm ² (AWG 22), 910001, UL-style 2464	5	10	2000
1210 1206 03 L1 001 5m	3	PVC, black, 3 x 0.34 mm ² (AWG 22), 910001, UL-style 2464	1	10	5000

Packaging:
in a plastic bag