

M12

1205 ... 3...

Actuator/Sensor Cordsets M12



Actuator/sensor cordset with overmolded connector

Cable end 1:

M12 female, angled, A-coded, IP67

Cable end 2:

blunt cut

Cable:

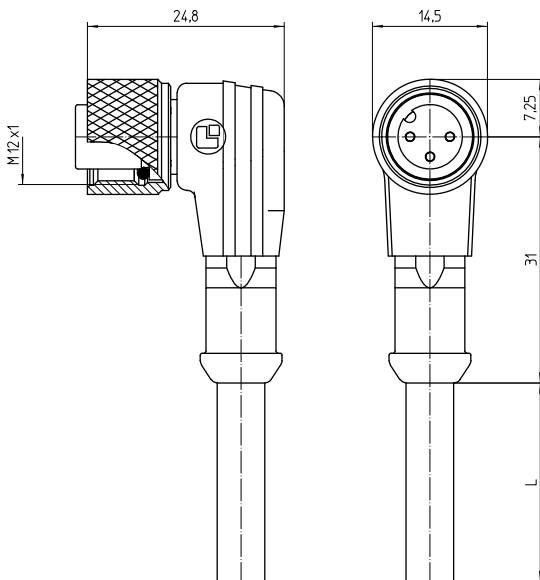
PUR, black

Approvals:



M12

1205 ... 3...



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
Overmolding/handle TPU¹
Knurled nut CuZn, nickel-plated
Seal FKM

¹ material halogen-free

Mechanical data

Mating cycles ≥ 100
Insertion force ≤ 10 N (4-5 poles)
 ≤ 23 N (8 poles)
¹
Withdrawal force ≤ 15 N (4-5 poles)
 ≤ 30 N (8 poles)²

Protection class IP67³

¹ measured with a proper counterpart

² measured with a proper counterpart

³ according to IEC DIN EN 60529, only in locked condition with an appropriate counterpart

Connected cable

Construction PUR, black

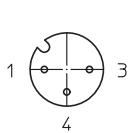
Electrical data (at T_{amb} 20 °C)

Contact resistance ≤ 10 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)
Rated impulse voltage 2500 V (3-4 poles)
1500 V (5 poles)
800 V (8-12 poles)
Material group I (IEC)/0 (UL) (CTI = 600)
Insulation resistance > 100 MΩ

M12

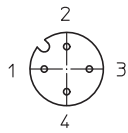
1205 ... 3...

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



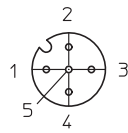
3 pole

- 1 brown
- 3 blue
- 4 black



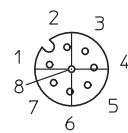
4 pole

- 1 brown
- 2 white
- 3 blue
- 4 black



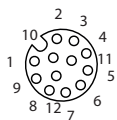
5 pole

- 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



12 pole

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

Associated products

Counterparts

☞ 1210 ... 0...	☞ 1210 ... 3...	☞ 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...	☞ 1230 ... T16CW ...
☞ 1230 ... T16CW100 ...	☞ 1230 ... T16CW101 ...	☞ 1230 ... T16CW102 ...
☞ 1230 ... T16CW103 ...	☞ 1230 ... T16CW104 ...	☞ 1230 ... T16CW105 ...
☞ 1231 ... T16CW100 ...	☞ 1231 ... T9CP	☞ 1239 ... TOCB
☞ 1250 ... T...CR	☞ 1255 ... T9CR	☞ 5012 04L1
☞ 5012 08L1	☞ 5012 10L1	☞ 5512 04DL1
☞ 5512 04L1	☞ 5512 08L1	

Accessories

☞ 9912 CPF0	☞ 9912 MRBU	☞ 9912 MRGN
☞ 9912 MRRD	☞ 9912 MRWH	☞ 9912 MRYE

M12

1205 ... 3...

Designation	Pole Number	Connected Cable	PU (Pieces)	MDQ (Pieces)	Dimensions L (mm)
1205 04 301 1,5m	4	PUR, black, 4 x 0.34 mm ² (AWG 22), 910301, UL-style 20549	5	10	1500
1205 04 301 2m	4	PUR, black, 4 x 0.34 mm ² (AWG 22), 910301, UL-style 20549	5	10	2000
1205 04 301 5m	4	PUR, black, 4 x 0.34 mm ² (AWG 22), 910301, UL-style 20549	1	10	5000
1205 05 302 1m	5	PUR, black, 5 x 0.34 mm ² (AWG 22), 910302, UL-style 20549	5	10	1000
1205 05 302 2m	5	PUR, black, 5 x 0.34 mm ² (AWG 22), 910302, UL-style 20549	5	10	2000
1205 05 302 5m	5	PUR, black, 5 x 0.34 mm ² (AWG 22), 910302, UL-style 20549	1	10	5000
1205 08 303 2m	8	PUR, black, 8 x 0.25 mm ² (AWG 24), 910303, UL-style 20549	5	10	2000
1205 08 303 5m	8	PUR, black, 8 x 0.25 mm ² (AWG 24), 910303, UL-style 20549	1	10	5000
1205 12 315 5m	12 cULus pending	PUR, black, 12 x 0.25 mm ² (AWG 24) 910315, UL-style 20549	1	10	5000

Packaging:
in a plastic bag