

M12 1205 ... 3...

Cordsets M12



Actuator/sensor cordset with overmolded connector

Cable end 1:

M12 female, angled, A-coded, IP67

Cable end 2:

blunt cut

Cable:

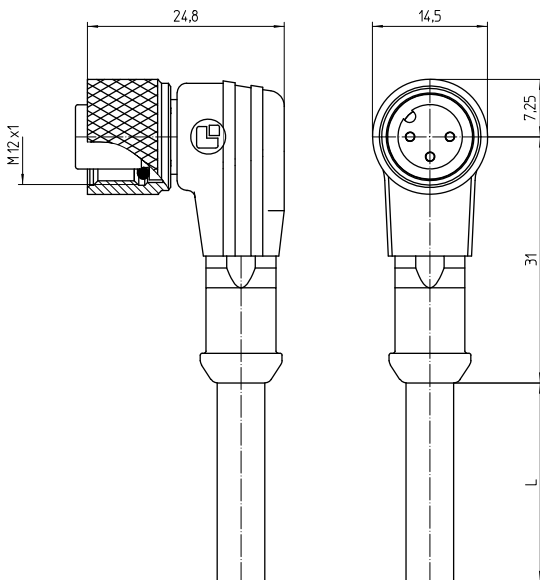
PUR, black

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

Outer jacket PUR, black

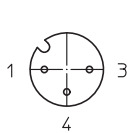
Electrical data (at T_{amb} 20 °C)

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

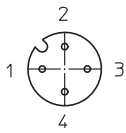
1205 ... 3...

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



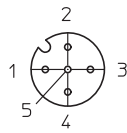
3 pole

- 1 brown
- 3 blue
- 4 black



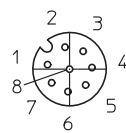
4 pole

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



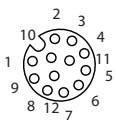
5 pole

- 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 ...
1230 ... TF1CW004 ...	1231 ... T16CW100 ...	1231 ... T9CP
1239 ... T0CB	1250 ... T...CI	1250 ... T...CR
1255 ... T...CR	5012 02 MFF	5012 04L1
5012 08L1	5012 10L1	5512 02 FMF
5512 02 MFF	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