

M12

1210 ...S9 6...

Cordsets M12



Actuator/sensor cordset, shielded, with overmolded connector

Cable end 1:

M12 male, straight, A-coded, IP67, shielding connected via knurled screw

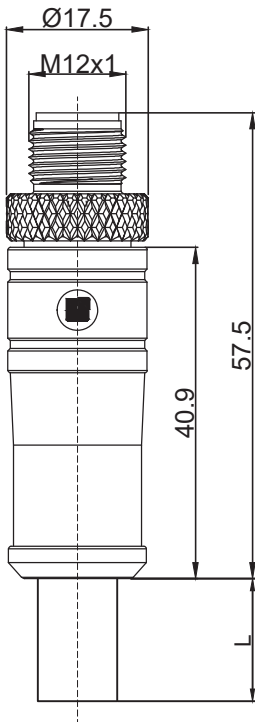
Cable end 2:

blunt cut

Cable:

PVC, shielded, black

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Environmental conditions

Temperature range $-25\text{ °C}/+80\text{ °C}$

Materials

Insulating body TPU GF, HB according to UL94
 Contact pin CuZn, pre-nickel and gold-plated
 Overmolding/handle PVC, HB according to UL94
 Knurled screw CuZn, nickel-plated

Mechanical data

Mating cycles ≥ 100
 Insertion force $\leq 23\text{ N}$ (2–5 poles)
 $\leq 30\text{ N}$ (6–12 poles)¹
 Withdrawal force $\leq 23\text{ N}$ (2–5 poles)
 $\leq 30\text{ N}$ (6–12 poles)¹
 Protection class IP67²

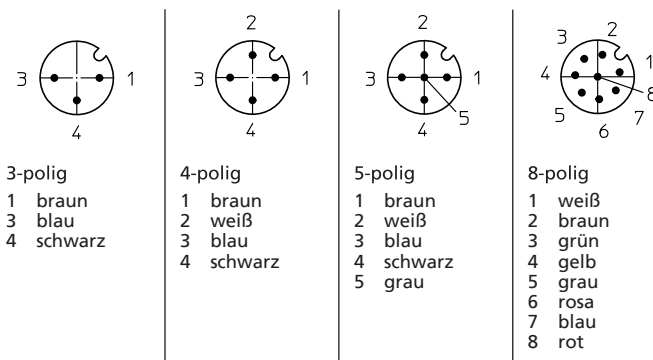
¹ measured with a proper counterpart

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

Connected cable

Outer jacket PVC, black

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



Electrical data (at $T_{\text{amb}} 20\text{ °C}$)

Contact resistance $\leq 10\text{ m}\Omega$
 Rated current 4 A (2–5 poles)
 2 A (6–8 poles)
 1.5 A (9–12 poles)
 ($T_{\text{amb}} 40\text{ °C}$)
 Rated voltage 250 V AC/DC (2–4 poles)
 63 V AC/DC (5 poles)
 32 V AC/DC (6–12 poles)
 Rated impulse voltage 2500 V (2–4 poles)
 1500 V (5 poles)
 800 V (6–12 poles)
 Material group I (IEC)/0 (UL) (CTI = 600)
 Insulation resistance $> 100\text{ M}\Omega$

Associated products

Counterparts
 ↗ 1220 ... T16CW ... ↗ 1221 ... T9CP

Accessories
 ↗ 9912 CPM0

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Designation	Pole Number	Connected Cable	PU (Pieces)	MDQ (Pieces)	Dimensions L (mm)
1210 04S9 604 2m	4	PVC, black, 4 x 0.34 mm ² (AWG 22), shielded 910604, UL-style 2464	5	10	2000
1210 04S9 604 5m	4	PVC, black, 4 x 0.34 mm ² (AWG 22), shielded 910604, UL-style 2464	1	10	5000
1210 04S9 604 10m	4	PVC, black, 4 x 0.34 mm ² (AWG 22), shielded 910604, UL-style 2464	1	10	10000
1210 05S9 605 2m	5	PVC, black, 5 x 0.34 mm ² (AWG 22), shielded 910605, UL-style 2464	5	10	2000
1210 05S9 605 5m	5	PVC, black, 5 x 0.34 mm ² (AWG 22), shielded 910605, UL-style 2464	1	10	5000
1210 05S9 605 10m	5	PVC, black, 5 x 0.34 mm ² (AWG 22), shielded 910605, UL-style 2464	1	10	10000
1210 08S9 608 2m	8	PVC, black, 8 x 0.25 mm ² (AWG 24), shielded 910608, UL-style 2464	5	10	2000
1210 08S9 608 5m	8	PVC, black, 8 x 0.25 mm ² (AWG 24), shielded 910608, UL-style 2464	1	10	5000
1210 08S9 608 10m	8	PVC, black, 8 x 0.25 mm ² (AWG 24), shielded 910608, UL-style 2464	1	10	10000

Packaging:
in a plastic bag