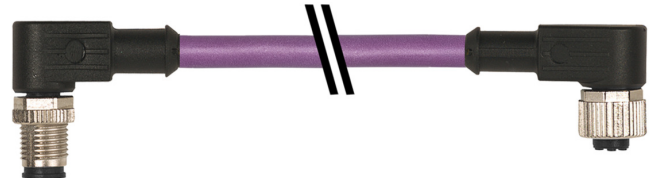


Overview

- M12 male 90° / M12 female 90° A-cod.
- PUR AWG24+22 shielded vt UL/CSA+drag ch.
- Suitable for CANopen and DeviceNet
- 1000 cm



Technical data

Side A

Head A: Connection	M12
Head A: Angle cable outlet	90°
Head A: Gender	Male
Head A: Coding	A
Head A: No. of poles	5
Head A: LED	No
Head A: Width across flats	AF13
Head A: Tightening torque	0.6 Nm
Head A: Knurled nut material	Zinc-pressure die casting, surface Ni
Labeling sleeve side A	Yes
Head A: Contact layout pin 1	Shield
Head A: Contact layout pin 2	RD
Head A: Contact layout pin 3	BK
Head A: Contact layout pin 4	WH
Head A: Contact layout pin 5	BU

Side B

Head B: Connection	M12
Head B: Angle cable outlet	90°
Head B: Gender	Female
Head B: Coding	A
Head B: No. of poles	5
Head B: LED	No
Head B: Width across flats	AF13
Head B: Tightening torque	0.6 Nm
Head B: Contact layout pin 1	Shield
Head B: Contact layout pin 2	RD
Head B: Contact layout pin 3	BK

Side B

Head B: Contact layout pin 4	WH
Head B: Contact layout pin 5	BU

Cables

Cable length	1000 cm
Shielded	Yes
Conductor structure	19 × 0.15 mm
External sheath: Material	PUR
External sheath: Color	Violet
Cable diameter	6.9 mm ± 5%
Wire cross section	0.25 mm²

Cable

Cable: Temperature range (mobile)	- 30 ...+ 70 °C
Cable: Temperature range (fixed)	- 40 ...+ 80 °C
Cable diameter tolerance	6.9 ± 5 %
Shielded	Yes
Characteristic impedance	120 Ohm ± 10%
Bending radius (fixed)	41.4 mm
Number of wires	5
Number and diameter of wires	-, -
Cable length	1000 cm
Bending radius (fixed)	min. 6 × outer diameter
Bending radius (mobile)	min. 10 × outer diameter
Cable weight	approx. 63.1 g/m
Wire 2: Color	RD
Wire 3: Color	BK
Wire 4: Color	WH
Wire 5: Color	BU
Conductor structure	19 × 0.15 mm
Cable diameter	6.9 mm ± 5%
Insulation resistance	- 5 MOhm x m

Technical data

Cable

Conductor: Material	Copper, bare
External sheath: Material	PUR
Insulation: Material	PE
No. of bending cycles (C-track)	approx. 1000000 Cycles
Nominal voltage	300 V
Paired stranding	Yes
Travel speed (C-track)	max. 3 m/s
Wire cross section	0.25 mm ²
External sheath: Color	Violet
Protocols	CANopen

Electrical data

Operating voltage	max. 60 V AC/DC
Nominal voltage	300 V
Contact resistance	max. 30 mOhm
Operating current per contact	max. 4 A

Mechanical data

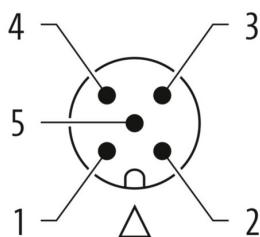
Head A: Degree of protection	IP65, IP66K, IP67
Bending radius (mobile)	min. 10 × outer diameter
Bending radius (fixed)	min. 6 × outer diameter
No. of bending cycles (C-track)	approx. 1000000 Cycles
Travel speed (C-track)	max. 3 m/s

Environmental conditions

Temperature range (mobile)	- 25 ...+ 70 °C
Temperature range (fixed)	- 25 ...+ 80 °C
Cable: Temperature range (fixed)	- 40 ...+ 80 °C
Dragchain capable	Yes
Head A: Chemical resistance	No
Head A: Flame resistance	HB (UL 94)
Head A: Oil resistance	Good resistance to ASTM 1 oil and mineral oils. Limited resistance to hydraulic oils. If other oils are used, the resistance must be checked in relation to the application.
Head A: Acid and alkali resistant	No
Head B: Chemical resistance	No
Head B: Flame resistance	HB (UL 94)
Head B: Oil resistance	Good resistance to ASTM 1 oil and mineral oils. Limited resistance to hydraulic oils. If other oils are used, the resistance must be checked in relation to the application.
Head B: Acid and alkali resistant	No
Cable: Oil resistance	Good (DIN EN 60811-404)

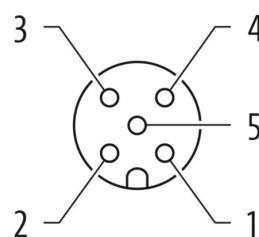
Side A

Coding



Side B

Coding



Connection diagram

