

Overview

- M12, male, A-coded; 5-poles; TPE-S, 500 cm, shielded, free cable end
- Dragchain capable; suitable for robotics $\pm 180^\circ/\text{m}$; suitable for food & beverage
- Head A: IP65, IP68, IP69K
- ECOLAB tested
- Halogen free



Technical data

Side A

Head A: Connection	M12
Head A: Angle cable outlet	0°
Head A: Gender	Male
Head A: Coding	A
Head A: No. of poles	5
Head A: LED	No
Head A: Width across flats	AF14
Head A: Tightening torque	0.6 Nm
Head A: Knurled nut material	Stainless steel (V4A)
Head A: Body color	Blue
Labeling sleeve side A	No

Side B

Head B: Connection	Open-ended wires
Labeling sleeve side B	No

Cables

Cable length	500 cm
Length tolerance	± 7.5 cm
Stripping length	20 mm
Shielded	Yes
Conductor structure	42 \times 0.1 mm
AWG	22
External sheath: Material	TPE-S
External sheath: Color	Blue
Cable diameter	5.9 mm \pm 5%
Wire cross section	0.34 mm ²

Electrical data

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

Mechanical data

Head A: Degree of protection	IP65, IP68, IP69K
Bending radius (mobile)	min. 10 \times outer diameter
Bending radius (fixed)	min. 5 \times outer diameter
No. of bending cycles (C-track)	approx. 4000000 Cycles
Torsion speed	max. 35 cycles/min
Torsion stress in °	$\pm 180^\circ/\text{m}$
No. of torsion cycles	approx. 2000000 Cycles
Acceleration (C-track)	max. 10 m/s ²
Travel speed (C-track)	max. 3 m/s

Environmental conditions

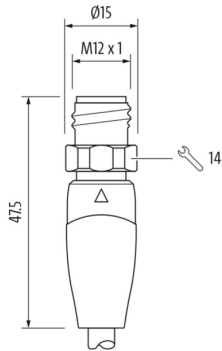
Temperature range (mobile)	- 25 ...+ 105 °C
Temperature range (fixed)	- 40 ...+ 105 °C
Cable: Temperature range (fixed)	- 40 ...+ 105 °C
Dragchain capable	Yes
Head A: Chemical resistance	Chemical resistance tested according to ECOLAB. If other media are used, the material resistance must be tested according to the application.
Head A: Flame resistance	HB (UL 94)
Head A: Oil resistance	ASTM 1 oil, mineral oils, limited to hydraulic oils
Head A: Acid and alkali resistant	ECOLAB tested
Head A: Pollution degree	3
Cable: Chemical resistance	ECOLAB material resistance test passed
Cable: Acid and alkali resistant	Good (FDA 21 178.3620, 178.3297, 177.1520, EU 10/2011)
Cable: Silicone-free	Yes

Commercial data

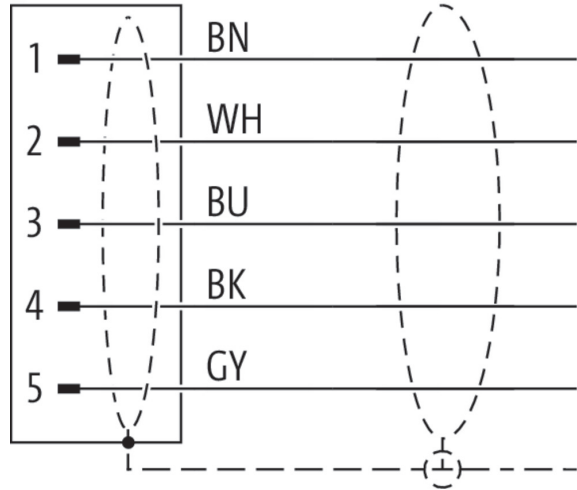
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Side A

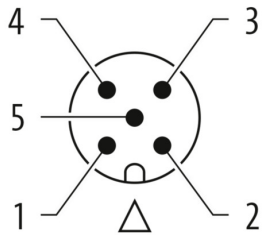
Technical drawing



Connection diagram



Coding



Dimension drawing



Side B

Technical drawing

