

Overview

- M12, male, A-coded; 5-poles; TPE-S, 300 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		Cable	
Head A: Connection	M12	Cable: Temperature range (mobile)	- 25 ...+ 105 °C
Head A: Angle cable outlet	0°	Cable: Temperature range (fixed)	- 40 ...+ 105 °C
Head A: Gender	Male	Operating voltage (only UL listed)	30 V AC/DC
Head A: Coding	A	Shielded	Yes
Head A: No. of poles	5	Shielding: Covering	approx. 85 %
Head A: LED	No	Bending radius (fixed)	29.5 mm
Head A: Width across flats	AF14	Number of wires	5
Head A: Tightening torque	0.6 Nm	Number and diameter of wires	5x0.34
Head A: Knurled nut material	Stainless steel (V4A)	Length tolerance	+ 10 cm
Head A: Body color	Blue	Cable length	300 cm
Labeling sleeve side A	No	Acceleration (C-track)	max. 10 m/s ²
Head A: Contact layout pin 1	BN	AWG	22
Head A: Contact layout pin 2	WH	Bending radius (fixed)	min. 5 × outer diameter
Head A: Contact layout pin 3	BU	Torsion speed	max. 35 cycles/min
Head A: Contact layout pin 4	BK	Bending radius (mobile)	min. 10 × outer diameter
Head A: Contact layout pin 5	GY	Cable weight	approx. 51.7 g/m
Side B		Conductor structure	42 × 0.1 mm
Head B: Connection	Open-ended wires	Cable diameter	5.9 mm $\pm$ 5%
Labeling sleeve side B	No	Conductor: Material	Copper, bare
Cables		External sheath: Material	TPE-S
Cable length	300 cm	Insulation: Material	PP
Length tolerance	+ 10 cm	Shielding: Material	Copper, tinned
Stripping length	20 mm	No. of bending cycles (C-track)	approx. 4000000 Cycles
Shielded	Yes	Nominal voltage	300 V AC
Conductor structure	42 × 0.1 mm	No. of torsion cycles	approx. 2000000 Cycles
AWG	22	Paired stranding	No
External sheath: Material	TPE-S	Single wire diameter	0.1 mm
External sheath: Color	Blue	Cable: Test voltage	3 kV
Cable diameter	5.9 mm $\pm$ 5%	Torsion stress in °	$\pm 180^\circ/\text{m}$
Wire cross section	0.34 mm ²	Total stranding	5 wires strand around core-filler
Cable: Halogen free	Yes	Travel speed (C-track)	0
		Traversing path (horizontal)	max. 10 m
		Wire cross section	0.34 mm ²
		Wire processing	No

Technical data

Cable

Wire diameter incl. isolation	1.27 mm ± 5%
External sheath: Color	Blue

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 × outer diameter
Bending radius (fixed)	min. 5 × outer diameter
No. of bending cycles (C-track)	approx. 4000000 Cycles
Torsion speed	max. 35 cycles/min
Torsion stress in °	± 180 °/m
No. of torsion cycles	approx. 2000000 Cycles
Acceleration (C-track)	max. 10 m/s ²
Travel speed (C-track)	0

Environmental conditions

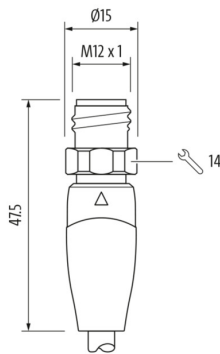
Temperature range (mobile)	- 25 ...+ 105 °C
Temperature range (fixed)	- 25 ...+ 85 °C
Cable: Temperature range (fixed)	- 40 ...+ 105 °C
Dragchain capable	Yes
Head A: Chemical resistance	Chemical resistance tested according to ECOLAB. If other media are used, the material resistance must be tested according 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
Cable: UV resistance	Yes

Commercial data

Eclass	27060311
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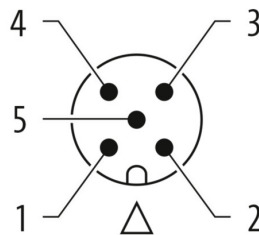
Side A

Technical drawing



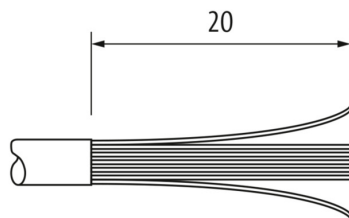
Side A

Coding

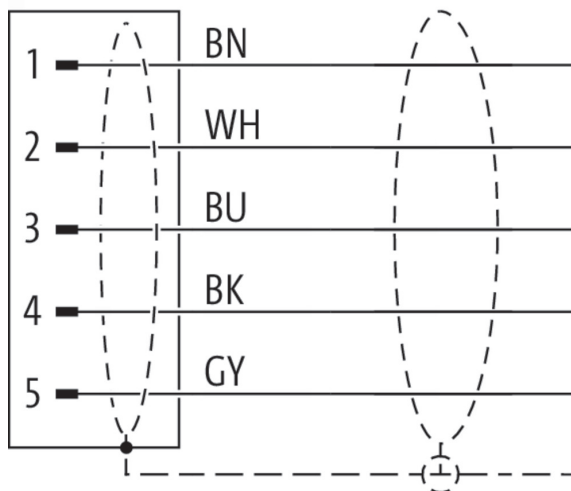


Side B

Technical drawing



Connection diagram



Dimension drawing

