

Overview

- M12, female, A-coded; 5-poles; TPE-S, 2500 cm, 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	Female	Operating voltage (only UL listed)	30 V AC/DC
Head A: Coding	A	Shielded	No
Head A: No. of poles	5	Bending radius (fixed)	25 mm
Head A: LED	No	Number of wires	5
Head A: Width across flats	AF14	Number and diameter of wires	5x0.34
Head A: Tightening torque	0.6 Nm	Length tolerance	± 37.5 cm
Head A: Knurled nut material	Stainless steel (V4A)	Cable length	2500 cm
Head A: Body color	Blue	Acceleration (C-track)	max. 10 m/s ²
Head A: Gasket material	EPDM	AWG	22
Labeling sleeve side A	No	Bending radius (fixed)	min. 5 × outer diameter
Head A: Contact layout pin 1	BN	Torsion speed	max. 35 cycles/min
Head A: Contact layout pin 2	WH	Bending radius (mobile)	min. 10 × outer diameter
Head A: Contact layout pin 3	BU	Cable weight	approx. 35.2 g/m
Head A: Contact layout pin 4	BK	Conductor structure	42 × 0.1 mm
Head A: Contact layout pin 5	GY	Cable diameter	5 mm $\pm$ 5%
Side B		Conductor: Material	Copper, bare
Head B: Connection	Open-ended wires	External sheath: Material	TPE-S
Labeling sleeve side B	No	Insulation: Material	PP
Cables		No. of bending cycles (C-track)	approx. 4000000 Cycles
Cable length	2500 cm	Nominal voltage	300 V AC
Length tolerance	± 37.5 cm	No. of torsion cycles	approx. 2000000 Cycles
Stripping length	20 mm	Paired stranding	No
Shielded	No	Single wire diameter	0.1 mm
Conductor structure	42 × 0.1 mm	Cable: Test voltage	3 kV
AWG	22	Torsion stress in °	$\pm 180^\circ/\text{m}$
External sheath: Material	TPE-S	Total stranding	5 wires strand around core-filler
External sheath: Color	Blue	Travel speed (C-track)	0
Cable diameter	5 mm $\pm$ 5%	Traversing path (horizontal)	max. 10 m
Wire cross section	0.34 mm ²	Wire cross section	0.34 mm ²
Cable: Halogen free	Yes	Wire processing	No
		Wire diameter incl. isolation	1.27 mm $\pm$ 5%
		External sheath: Color	Blue

Technical data

Electrical data

Operating voltage	max. 125 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
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Environmental conditions

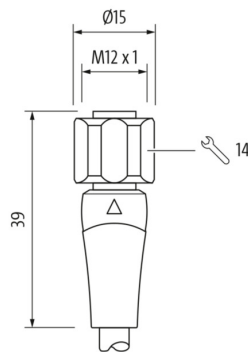
Temperature range (fixed)	- 25 ...+ 85 °C
Cable: Temperature range (fixed)	- 40 ...+ 105 °C
Dragchain capable	Yes
Head A: Chemical resistance	Chemical resistance tested according to ECOLAB. If other media are used, the material resistance must be tested according to the application.
Head A: Flame resistance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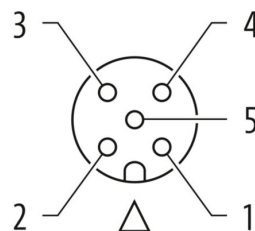
Side A

Technical drawing



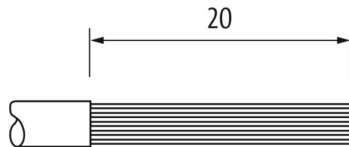
Side A

Coding

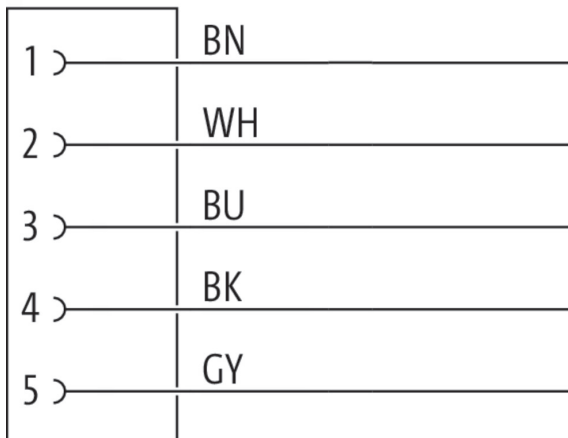


Side B

Technical drawing



Connection diagram



Dimension drawing

