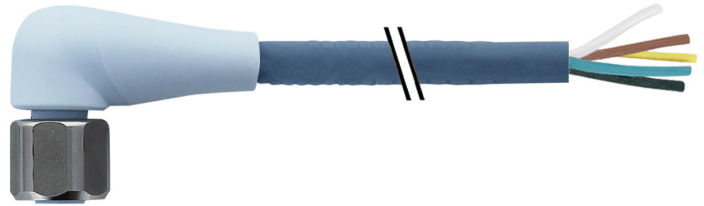


Overview

- M12, female, A-coded; 5-poles; TPE-S, 100 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	Length tolerance	+ 5 cm
Head A: Angle cable outlet	90°	Cable length	100 cm
Head A: Gender	Female	Acceleration (C-track)	max. 10 m/s ²
Head A: Coding	A	AWG	22
Head A: No. of poles	5	Bending radius (fixed)	min. 5 × outer diameter
Head A: LED	No	Torsion speed	max. 35 cycles/min
Head A: Width across flats	AF14	Bending radius (mobile)	min. 10 × outer diameter
Head A: Tightening torque	0.6 Nm	Cable weight	approx. 35.2 g/m
Head A: Knurled nut material	Stainless steel (V4A)	Conductor structure	42 × 0.1 mm
Head A: Body color	Blue	Cable diameter	5 mm ± 5%
Head A: Gasket material	EPDM	Conductor: Material	Copper, bare
Labeling sleeve side A	No	External sheath: Material	TPE-S
Side B		Insulation: Material	PP
Head B: Connection	Open-ended wires	No. of bending cycles (C-track)	approx. 4000000 Cycles
Labeling sleeve side B	No	Nominal voltage	300 V AC
Cables		No. of torsion cycles	approx. 2000000 Cycles
Cable length	100 cm	Paired stranding	No
Length tolerance	+ 5 cm	Single wire diameter	0.1 mm
Stripping length	20 mm	Cable: Test voltage	3 kV
Shielded	No	Torsion stress in °	$\pm 180^\circ/\text{m}$
Conductor structure	42 × 0.1 mm	Total stranding	5 wires strand around core-filler
AWG	22	Travel speed (C-track)	max. 3 m/s
External sheath: Material	TPE-S	Traversing path (horizontal)	max. 10 m
External sheath: Color	Blue	Wire cross section	0.34 mm ²
Cable diameter	5 mm ± 5%	Wire processing	No
Wire cross section	0.34 mm ²	Wire diameter incl. isolation	1.27 mm ± 5%
Cable		External sheath: Color	Blue
Cable: Temperature range (mobile)	- 25 ...+ 105 °C	Electrical data	
Cable: Temperature range (fixed)	- 40 ...+ 105 °C	Operating voltage	max. 125 V AC/DC
Operating voltage (only UL listed)	30 V AC/DC	Operating voltage (only UL listed)	30 V AC/DC
Shielded	No	Nominal voltage	300 V AC
Bending radius (fixed)	25 mm	Contact resistance	max. 30 mOhm
Number of wires	5	Operating current per contact	max. 4 A
Number and diameter of wires	5x0.34	Mechanical data	
		Head A: Degree of protection	IP65, IP68, IP69K

The product features and technical data specified do not express or imply any warranty. Technical modifications subject to change.

Technical data

Mechanical data

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)	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

Environmental conditions

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

Eclass	27060311
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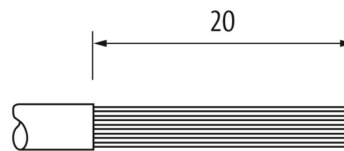
Side A

Technical drawing

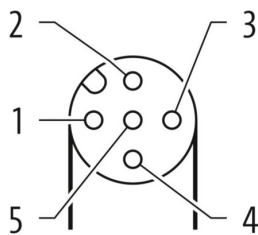


Side B

Technical drawing



Coding



Connection diagram

1	BN
2	WH
3	BU
4	BK
5	GY

Dimension drawing

