

Overview

- M12, female, A-coded; 5-poles; TPE-S, 1000 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	± 15 cm
Head A: Angle cable outlet	0°	Cable length	1000 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. $5 \times$ outer diameter
Head A: LED	No	Torsion speed	max. 35 cycles/min
Head A: Width across flats	AF14	Bending radius (mobile)	min. $10 \times$ outer diameter
Head A: Tightening torque	0.6 Nm	Cable weight	approx. 35.2 g/m
Head A: Knurled nut material	Stainless steel (V4A)	Wire 1: Color	BN
Head A: Body color	Blue	Wire 2: Color	BK
Head A: Gasket material	EPDM	Wire 3: Color	BU
Labeling sleeve side A	No	Wire 4: Color	WH
		Wire 5: Color	GY
Side B		Conductor structure	42×0.1 mm
Head B: Connection	Open-ended wires	Cable diameter	$5 \text{ mm} \pm 5\%$
Labeling sleeve side B	No	Conductor: Material	Copper, bare
Cables		External sheath: Material	TPE-S
Cable length	1000 cm	Insulation: Material	PP
Length tolerance	± 15 cm	No. of bending cycles (C-track)	approx. 4000000 Cycles
Stripping length	20 mm	Nominal voltage	300 V AC
Shielded	No	No. of torsion cycles	approx. 2000000 Cycles
Conductor structure	42×0.1 mm	Paired stranding	No
AWG	22	Single wire diameter	0.1 mm
External sheath: Material	TPE-S	Cable: Test voltage	3 kV
External sheath: Color	Blue	Torsion stress in $^\circ$	$\pm 180^\circ/\text{m}$
Cable diameter	$5 \text{ mm} \pm 5\%$	Total stranding	5 wires strand around core-filler
Wire cross section	0.34 mm^2	Travel speed (C-track)	max. 3 m/s
Cable		Traversing path (horizontal)	max. 10 m
Cable: Temperature range (mobile)	$-25 \dots +105^\circ\text{C}$	Wire cross section	0.34 mm^2
Cable: Temperature range (fixed)	$-40 \dots +105^\circ\text{C}$	Wire processing	No
Operating voltage (only UL listed)	30 V AC/DC	Wire diameter incl. isolation	$1.27 \text{ mm} \pm 5\%$
Shielded	No	External sheath: Color	Blue
Bending radius (fixed)	25 mm	Electrical data	
Number of wires	5	Operating voltage	max. 125 V AC/DC
Number and diameter of wires	5×0.34	Operating voltage (only UL listed)	30 V AC/DC
		Nominal voltage	300 V AC
		Contact resistance	max. 30 mOhm

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

Technical data

Electrical data

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/s²
 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

Environmental conditions

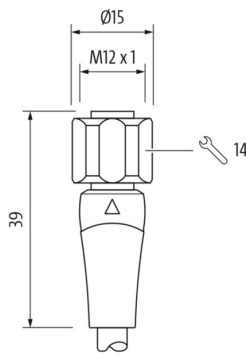
Dragchain capable Yes
 Head A: Chemical resistance Chemical resistance tested according to ECOLAB. If other media are used, the material resistance must be tested according to the application.
 Head A: Flame resistance HB (UL 94)
 Head A: Oil resistance ASTM 1 oil, mineral oils, limited to hydraulic 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

Eclass 27060311

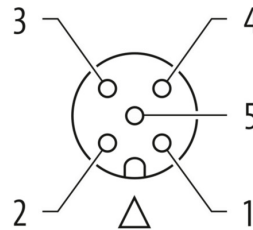
Side A

Technical drawing



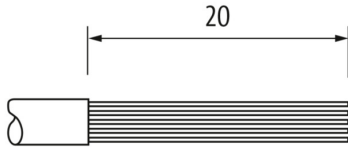
Side A

Coding

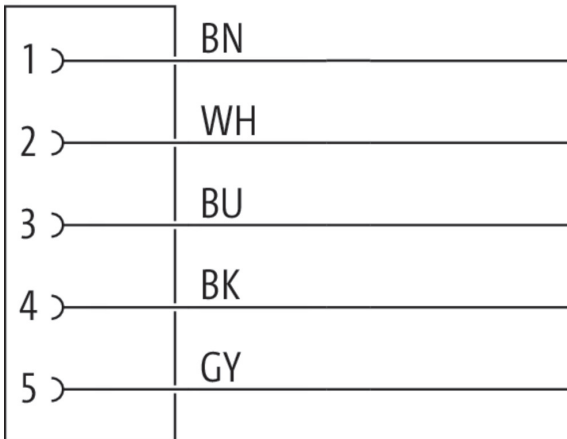


Side B

Technical drawing



Connection diagram



Dimension drawing

