

Overview

- M12, female, A-coded; 8-poles; TPE-S, 300 cm, free cable end
- Dragchain capable; suitable for robotics $\pm 180^\circ/\text{m}$; suitable for food & beverage
- Head A: IP65, IP68, IP69K
- Halogen free



Technical data

Side A

Head A: Connection	M12
Head A: Angle cable outlet	0°
Head A: Gender	Female
Head A: Coding	A
Head A: No. of poles	8
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
Head A: Gasket material	EPDM
Labeling sleeve side A	No

Side B

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

Cables

Cable length	300 cm
Length tolerance	+ 10 cm
Stripping length	60 mm
Shielded	No
Conductor structure	32 x 0.1 mm
AWG	24
External sheath: Material	TPE-S
External sheath: Color	Blue
Cable diameter	6.3 mm \pm 5%
Wire cross section	0.25 mm ²

Cable

External sheath: Shore hardness	47 \pm 5 D
Cable: Temperature range (mobile)	- 25 ...+ 105 °C
Cable: Temperature range (fixed)	- 40 ...+ 105 °C
Shielded	No
Bending radius (fixed)	31.5 mm
Number of wires	8
Number and diameter of wires	8x0,25
Length tolerance	+ 10 cm

Cable

Cable length	300 cm
Acceleration (C-track)	max. 10 m/s ²
AWG	24
Bending radius (fixed)	min. 5 x outer diameter
Torsion speed	max. 35 cycles/min
Bending radius (mobile)	min. 10 x outer diameter
Cable weight	approx. 46.2 g/m
Wire 1: Color	WH
Wire 2: Color	BN
Wire 3: Color	GN
Wire 4: Color	YE
Wire 5: Color	GY
Wire 6: Color	PK
Wire 7: Color	BU
Wire 8: Color	RD
Conductor structure	32 x 0.1 mm
Cable diameter	6.3 mm \pm 5%
Conductor: Material	Copper, bare
External sheath: Material	TPE-S
Insulation: Material	PP
No. of bending cycles (C-track)	approx. 4000000 Cycles
Nominal voltage	300 V AC
No. of torsion cycles	approx. 2000000 Cycles
Paired stranding	No
Single wire diameter	0.1 mm
Cable: Test voltage	3 kV
Torsion stress in °	$\pm 180^\circ/\text{m}$
Total stranding	8 wires strand around core-filler
Travel speed (C-track)	max. 3 m/s
Traversing path (horizontal)	max. 10 m
Wire cross section	0.25 mm ²
Wire processing	No
Wire diameter incl. isolation	1.17 mm \pm 5%
External sheath: Color	Blue

Electrical data

Operating voltage	max. 30 V AC/DC 0
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. 2 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

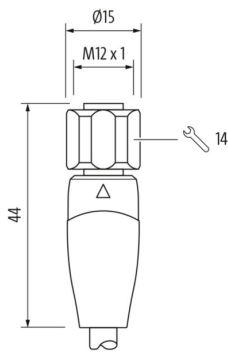
Dragchain capable Yes
 Head A: Chemical resistance Chemical resistance tested according to ECOLAB. If other media are used, the material resistance must be tested according to the application.
 Head A: Flame resistance HB (UL 94)
 Head A: Oil resistance ASTM 1 oil, mineral oils, limited to hydraulic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

Commercial data

Eclass 27060311

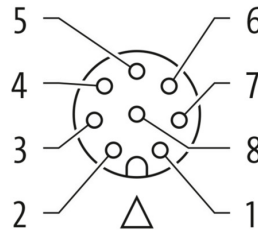
Side A

Technical drawing



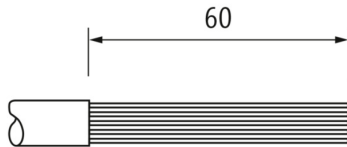
Side A

Coding



Side B

Technical drawing



Connection diagram

1	WH
2	BN
3	GN
4	YE
5	GY
6	PK
7	BU
8	RD

Dimension drawing

