

Overview

- M12, female, A-coded; 8-poles; TPE-S, 2000 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		Cable	
Head A: Connection	M12	Cable length	2000 cm
Head A: Angle cable outlet	0°	Acceleration (C-track)	max. 10 m/s ²
Head A: Gender	Female	AWG	24
Head A: Coding	A	Bending radius (fixed)	min. 5 × outer diameter
Head A: No. of poles	8	Torsion speed	max. 35 cycles/min
Head A: LED	No	Bending radius (mobile)	min. 10 × outer diameter
Head A: Width across flats	AF14	Cable weight	approx. 46.2 g/m
Head A: Tightening torque	0.6 Nm	Wire 1: Color	WH
Head A: Knurled nut material	Stainless steel (V4A)	Wire 2: Color	BN
Head A: Body color	Blue	Wire 3: Color	GN
Head A: Gasket material	EPDM	Wire 4: Color	YE
Labeling sleeve side A	No	Wire 5: Color	GY
Side B		Wire 6: Color	PK
Head B: Connection	Open-ended wires	Wire 7: Color	BU
Labeling sleeve side B	No	Wire 8: Color	RD
Cables		Conductor structure	32 × 0.1 mm
Cable length	2000 cm	Cable diameter	6.3 mm ± 5%
Length tolerance	± 30 cm	Conductor: Material	Copper, bare
Stripping length	60 mm	External sheath: Material	TPE-S
Shielded	No	Insulation: Material	PP
Conductor structure	32 × 0.1 mm	No. of bending cycles (C-track)	approx. 4000000 Cycles
AWG	24	Nominal voltage	300 V AC
External sheath: Material	TPE-S	No. of torsion cycles	approx. 2000000 Cycles
External sheath: Color	Blue	Paired stranding	No
Cable diameter	6.3 mm ± 5%	Single wire diameter	0.1 mm
Wire cross section	0.25 mm ²	Cable: Test voltage	3 kV
Cable		Torsion stress in °	± 180 °/m
External sheath: Shore hardness	47 ± 5 D	Total stranding	8 wires strand around core-filler
Cable: Temperature range (mobile)	- 25 ...+ 105 °C	Travel speed (C-track)	max. 3 m/s
Cable: Temperature range (fixed)	- 40 ...+ 105 °C	Traversing path (horizontal)	max. 10 m
Shielded	No	Wire cross section	0.25 mm ²
Bending radius (fixed)	31.5 mm	Wire processing	No
Number of wires	8	Wire diameter incl. isolation	1.17 mm ± 5%
Number and diameter of wires	8x0,25	External sheath: Color	Blue
Length tolerance	± 30 cm	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)

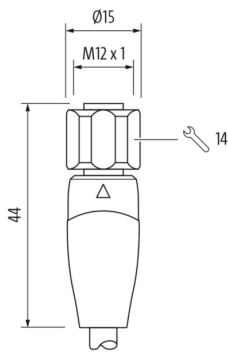
Cable: Silicone-free Yes

Commercial data

Eclass 27060311

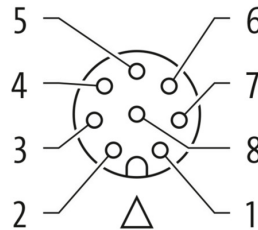
Side A

Technical drawing



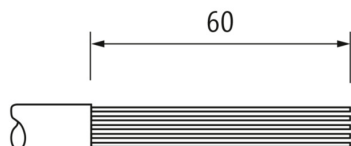
Side A

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

