

**Overview**

- M12, male, A-coded; 4-poles; TPE-S, 2000 cm; M12, female, A-coded; 4-poles
- 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 (fixed)	- 40 ...+ 105 °C
Head A: Angle cable outlet	0°	Operating voltage (only UL listed)	30 V AC/DC
Head A: Gender	Male	Shielded	No
Head A: Coding	A	Bending radius (fixed)	23.5 mm
Head A: No. of poles	4	Number of wires	4
Head A: LED	No	Number and diameter of wires	4x0.34
Head A: Width across flats	AF14	Cable length	2000 cm
Head A: Tightening torque	0.6 Nm	Acceleration (C-track)	max. 10 m/s <sup>2</sup>
Head A: Knurled nut material	Stainless steel (V4A)	AWG	22
Head A: Body color	Blue	Bending radius (fixed)	min. 5 × outer diameter
Labeling sleeve side A	No	Torsion speed	max. 35 cycles/min
<b>Side B</b>		Bending radius (mobile)	min. 10 × outer diameter
Head B: Connection	M12	Cable weight	approx. 29.7 g/m
Head B: Angle cable outlet	0°	Conductor structure	42 × 0.1 mm
Head B: Gender	Female	Cable diameter	4.7 mm ± 5%
Head B: Coding	A	Conductor: Material	Copper, bare
Head B: No. of poles	4	External sheath: Material	TPE-S
Head B: LED	No	Insulation: Material	PP
Head B: Width across flats	AF14	No. of bending cycles (C-track)	approx. 4000000 Cycles
Head B: Tightening torque	0.6 Nm	Nominal voltage	300 V AC
Head B: Knurled nut material	Stainless steel (V4A)	No. of torsion cycles	approx. 2000000 Cycles
Head B: Body color	Blue	Paired stranding	No
Head B: Gasket material	EPDM	Single wire diameter	0.1 mm
Labeling sleeve side B	No	Cable: Test voltage	3 kV
<b>Cables</b>		Torsion stress in °	± 180 °/m
Cable length	2000 cm	Total stranding	4 wires strand
Shielded	No	Travel speed (C-track)	max. 3 m/s
Conductor structure	42 × 0.1 mm	Traversing path (horizontal)	max. 10 m
AWG	22	Wire cross section	0.34 mm <sup>2</sup>
External sheath: Material	TPE-S	Wire processing	No
External sheath: Color	Blue	Wire diameter incl. isolation	1.27 mm ± 5%
Cable diameter	4.7 mm ± 5%	External sheath: Color	Blue
Wire cross section	0.34 mm <sup>2</sup>	<b>Electrical data</b>	
<b>Cable</b>		Operating voltage (only UL listed)	30 V AC/DC
Cable: Temperature range (mobile)	- 25 ...+ 105 °C		

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

**Technical data**

**Electrical data**

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
Head B: 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 <sup>2</sup>
Travel speed (C-track)	max. 3 m/s

**Environmental conditions**

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	Good resistance to ASTM 1 oil and mineral oils. Limited resistance to hydraulic oils. If other oils are used, the resistance must be checked in relation to the application.

**Environmental conditions**

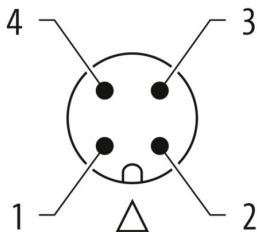
Head A: Acid and alkali resistant	Chemical resistance tested according to ECOLAB. If other media are used, the material resistance must be tested according to the application.
Head A: Pollution degree	3
Head B: Chemical resistance	Chemical resistance tested according to ECOLAB. If other media are used,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

**Commercial data**

Eclass	27060311
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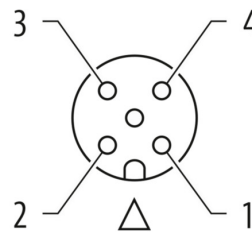
**Side A**

**Coding**



**Side B**

**Coding**



Connection diagram

