

Overview

- M12, male, A-coded; 4-poles; TPE-S, 1500 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

Head A: Connection	M12
Head A: Angle cable outlet	0°
Head A: Gender	Male
Head A: Coding	A
Head A: No. of poles	4
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
Labeling sleeve side A	No
Head A: Contact layout pin 1	BN
Head A: Contact layout pin 2	WH
Head A: Contact layout pin 3	BU
Head A: Contact layout pin 4	BK

Side B

Head B: Connection	M12
Head B: Angle cable outlet	0°
Head B: Gender	Female
Head B: Coding	A
Head B: No. of poles	4
Head B: LED	No
Head B: Width across flats	AF14
Head B: Tightening torque	0.6 Nm
Head B: Knurled nut material	Stainless steel (V4A)
Head B: Body color	Blue
Head B: Gasket material	EPDM
Labeling sleeve side B	No
Head B: Contact layout pin 1	BN
Head B: Contact layout pin 2	WH

Side B

Head B: Contact layout pin 3	BU
Head B: Contact layout pin 4	BK

Cables

Cable length	1500 cm
Shielded	No
Conductor structure	42 × 0.1 mm
AWG	22
External sheath: Material	TPE-S
External sheath: Color	Blue
Cable diameter	4.7 mm ± 5%
Wire cross section	0.34 mm²
Cable: Halogen free	Yes

Cable

Cable: Temperature range (mobile)	- 25 ...+ 105 °C
Cable: Temperature range (fixed)	- 40 ...+ 105 °C
Operating voltage (only UL listed)	30 V AC/DC
Shielded	No
Bending radius (fixed)	23.5 mm
Number of wires	4
Number and diameter of wires	4x0.34
Cable length	1500 cm
Acceleration (C-track)	max. 10 m/s²
AWG	22
Bending radius (fixed)	min. 5 × outer diameter
Torsion speed	max. 35 cycles/min
Bending radius (mobile)	min. 10 × outer diameter
Cable weight	approx. 29.7 g/m
Conductor structure	42 × 0.1 mm
Cable diameter	4.7 mm ± 5%
Conductor: Material	Copper, bare
External sheath: Material	TPE-S
Insulation: Material	PP

Technical data
Cable

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 °	± 180 °/m
Total stranding	4 wires strand
Travel speed (C-track)	max. 3 m/s
Traversing path (horizontal)	max. 10 m
Wire cross section	0.34 mm ²
Wire processing	No
Wire diameter incl. isolation	1.27 mm ± 5%
External sheath: Color	Blue

Electrical data

Operating voltage (only UL listed)	30 V AC/DC
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 ²
Travel speed (C-track)	max. 3 m/s

Environmental conditions

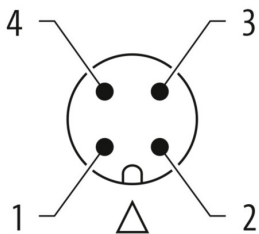
Temperature range (fixed)	- 25 ...+ 85 °C
Cable: Temperature range (fixed)	- 40 ...+ 105 °C
Dragchain capable	Yes
Head A: Chemical resistance	Chemical resistance tested according to ECOLAB. If other media are used, the material resistance must be tested according to the application.
Head A: Flame resistance	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.
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
Cable: UV resistance	Yes

Commercial data

Eclass	27060311
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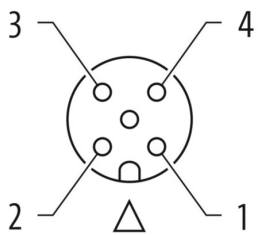
Side A

Coding



Side B

Coding



Connection diagram

1	BN	1
2	WH	2
3	BU	3
4	BK	4