

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		Side B	
Head A: Connection	M12	Head B: Contact layout pin 3	BU
Head A: Angle cable outlet	0°	Head B: Contact layout pin 4	BK
Head A: Gender	Male	Cables	
Head A: Coding	A	Cable length	2000 cm
Head A: No. of poles	4	Shielded	No
Head A: LED	No	Conductor structure	42 × 0.1 mm
Head A: Width across flats	AF14	AWG	22
Head A: Tightening torque	0.6 Nm	External sheath: Material	TPE-S
Head A: Knurled nut material	Stainless steel (V4A)	External sheath: Color	Blue
Head A: Body color	Blue	Cable diameter	4.7 mm ± 5%
Labeling sleeve side A	No	Wire cross section	0.34 mm²
Head A: Contact layout pin 1	BN	Cable: Halogen free	Yes
Head A: Contact layout pin 2	WH	Cable	
Head A: Contact layout pin 3	BU	Cable: Temperature range (mobile)	- 25 ...+ 105 °C
Head A: Contact layout pin 4	BK	Cable: Temperature range (fixed)	- 40 ...+ 105 °C
Side B		Operating voltage (only UL listed)	30 V AC/DC
Head B: Connection	M12	Shielded	No
Head B: Angle cable outlet	0°	Bending radius (fixed)	23.5 mm
Head B: Gender	Female	Number of wires	4
Head B: Coding	A	Number and diameter of wires	4x0.34
Head B: No. of poles	4	Cable length	2000 cm
Head B: LED	No	Acceleration (C-track)	max. 10 m/s²
Head B: Width across flats	AF14	AWG	22
Head B: Tightening torque	0.6 Nm	Bending radius (fixed)	min. 5 × outer diameter
Head B: Knurled nut material	Stainless steel (V4A)	Torsion speed	max. 35 cycles/min
Head B: Body color	Blue	Bending radius (mobile)	min. 10 × outer diameter
Head B: Gasket material	EPDM	Cable weight	approx. 29.7 g/m
Labeling sleeve side B	No	Conductor structure	42 × 0.1 mm
Head B: Contact layout pin 1	BN	Cable diameter	4.7 mm ± 5%
Head B: Contact layout pin 2	WH	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

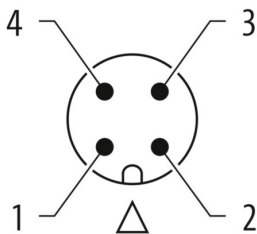
Temperature range (fixed)	- 25 ...+ 85 °C
Cable: Temperature range (fixed)	- 40 ...+ 105 °C
Dragchain capable	Yes
Head A: Chemical resistance	Chemical resistance tested according to ECOLAB. If other media are used, the material resistance must be tested according to the application.
Head A: Flame resistance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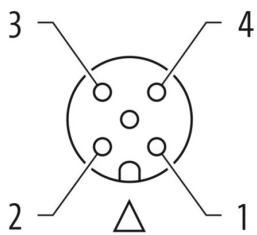
Side A

Coding



Side B

Coding



Connection diagram

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