

Vue d'ensemble

- M12, male, A-coded; 4-poles; TPE-S, 1500 cm, shielded, free cable end
- Dragchain capable; suitable for robotics $\pm 180^\circ/\text{m}$; suitable for food & beverage
- Head A: IP65, IP68, IP69K
- ECOLAB tested
- Halogen free


Caractéristiques techniques
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

Side B

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

Cables

Cable length	1500 cm
Length tolerance	$\pm 22,5$ cm
Stripping length	20 mm
Shielded	Oui
Conductor structure	42 x 0,1 mm
AWG	22
External sheath: Material	TPE-S
External sheath: Color	Blue
Cable diameter	5,6 mm $\pm 5\%$
Wire cross section	0,34 mm ²

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	Oui
Shielding: Covering	approx. 85 %
Bending radius (fixed)	28 mm
Number of wires	4
Number and diameter of wires	4x0,34

Cable

Length tolerance	$\pm 22,5$ cm
Cable length	1500 cm
Acceleration (C-track)	max. 10 m/s ²
AWG	22
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. 45,1 g/m
Conductor structure	42 x 0,1 mm
Cable diameter	5,6 mm $\pm 5\%$
Conductor: Material	Copper, bare
External sheath: Material	TPE-S
Insulation: Material	PP
Shielding: Material	Copper, tinned
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	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 $\pm 5\%$
External sheath: Color	Blue

Données électriques

Operating voltage	max. 60 V AC/DC
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

Caractéristiques techniques

Données mécaniques

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/s ²
Travel speed (C-track)	max. 3 m/s

Conditions ambiantes

Temperature range (mobile)	- 25 ...+ 105 °C
Temperature range (fixed)	- 40 ...+ 105 °C
Cable: Temperature range (fixed)	- 40 ...+ 105 °C

Conditions ambiantes

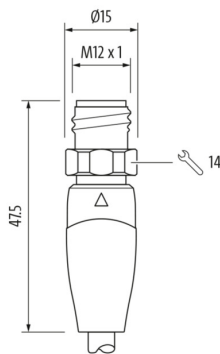
Dragchain capable	Oui
Head A: Chemical resistance	Chemical resistance tested according to ECOLAB. If other media are used, the material resistance must be tested according to the application.
Head A: Flame resistance	HB (UL 94)
Head A: Oil resistance	ASTM 1 oil, mineral oils, limited to hydraulic oils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

Commercial data

Eclass	27060311
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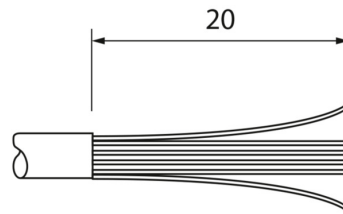
Side A

Technical drawing



Side B

Technical drawing



Coding

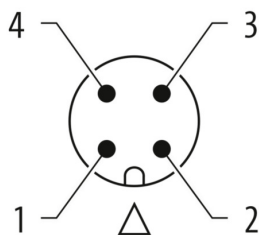
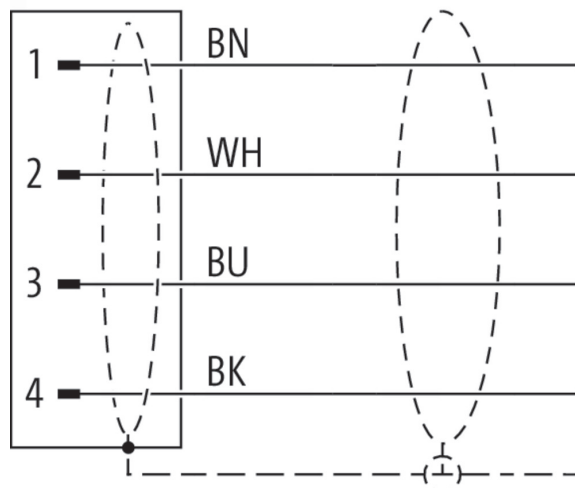


Schéma de raccordement



Dessin d'encombrement

