

Overview

- M8, female, A-coded, 3-poles; PUR, 500 cm, free cable end
- Dragchain capable; suitable for robotics $\pm 180^\circ/\text{m}$
- Head A: IP65, IP66K, IP67
- Cable: good resistance against chemicals, flames, oils
- Halogen free



Technical data

Side A		Cable	
Head A: Connection	M8	Shielded	No
Head A: Angle cable outlet	0°	Bending radius (fixed)	20.5 mm
Head A: Gender	Female	Number of wires	3
Head A: Coding	A	Number and diameter of wires	3x0.25
Head A: No. of poles	3	Length tolerance	± 7.5 cm
Head A: LED	No	Cable length	500 cm
Head A: Width across flats	AF9	Acceleration (C-track)	max. 10 m/s ²
Head A: Tightening torque	0.4 Nm	AWG	24
Head A: Knurled nut material	Zinc-pressure die casting, surface Ni	Bending radius (fixed)	min. 5 × outer diameter
Head A: Body color	Black	Torsion speed	max. 35 cycles/min
Head A: Gasket material	FKM	Bending radius (mobile)	min. 10 × outer diameter
Labeling sleeve side A	Yes	Cable type	3
Head A: Contact layout pin 1	BN	Cable weight	approx. 26.4 g/m
Head A: Contact layout pin 3	BU	Conductor structure	32 × 0.1 mm
Head A: Contact layout pin 4	BK	Cable diameter	4.1 mm $\pm 5\%$
Side B		Conductor: Material	Copper, bare
Head B: Connection	Open-ended wires	External sheath: Material	PUR
Labeling sleeve side B	Yes	Insulation: Material	PP
Cables		No. of bending cycles (C-track)	approx. 10000000 Cycles
Cable length	500 cm	Nominal voltage	300 V
Length tolerance	± 7.5 cm	No. of torsion cycles	approx. 2000000 Cycles
Stripping length	20 mm	Paired stranding	No
Shielded	No	Single wire diameter	0.1 mm
Conductor structure	32 × 0.1 mm	Cable: Test voltage	2.5 kV
AWG	24	Torsion stress in °	$\pm 180^\circ/\text{m}$
External sheath: Material	PUR	Total stranding	3 wires strand
External sheath: Color	Black	Travel speed (C-track)	max. 3 m/s
Cable diameter	4.1 mm $\pm 5\%$	Traversing path (horizontal)	max. 10 m
Wire cross section	0.25 mm ²	Wire cross section	0.25 mm ²
Cable: Halogen free	Yes	Wire processing	No
Cable		Wire diameter incl. isolation	1.25 mm $\pm 5\%$
Cable: Temperature range (mobile)	- 25 ...+ 80 °C	External sheath: Color	Black
Cable: Temperature range (fixed)	- 40 ...+ 80 °C	Electrical data	
Operating voltage (only UL listed)	30 V AC/DC	Operating voltage	max. 50 V AC / 60 V DC
		Operating voltage (only UL listed)	30 V AC/DC
		Nominal voltage	300 V
		Contact resistance	max. 30 mOhm

Technical data

Electrical data

Operating current per contact	max. 4 A
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Mechanical data

Head A: Degree of protection	IP65, IP66K, IP67
Bending radius (mobile)	min. 10 × outer diameter
Bending radius (fixed)	min. 5 × outer diameter
No. of bending cycles (C-track)	approx. 10000000 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 (mobile)	- 25 ...+ 80 °C
Temperature range (fixed)	- 25 ...+ 85 °C
Cable: Temperature range (fixed)	- 40 ...+ 80 °C

Environmental conditions

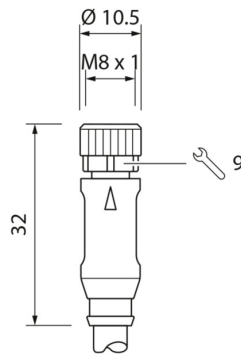
Dragchain capable	Yes
Head A: Chemical resistance	No
Head A: Flame resistance	HB (UL 94)
Head A: Oil resistance	ASTM 1 oil, mineral oils, limited to hydraulic oils
Head A: Acid and alkali resistant	No
Head A: Pollution degree	3
Cable: Chemical resistance	Good (DIN EN 60811-404)
Cable: Flame resistance	Conform UL 1581 §1090 (H), CSA FT2, IEC 60332-2-2
Cable: Oil resistance	Good (DIN EN 60811-404)
Cable: Silicone-free	Yes
Cable: UV resistance	Yes

Commercial data

Eclass	27060311
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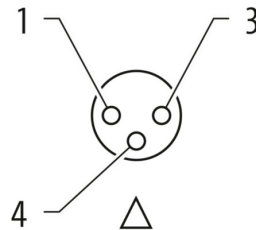
Side A

Technical drawing



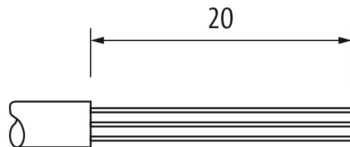
Side A

Coding

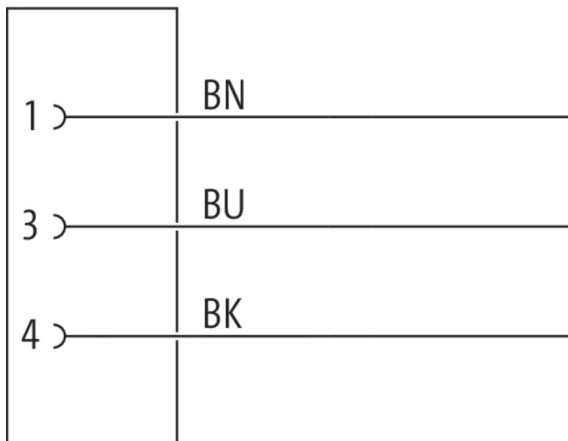


Side B

Technical drawing



Connection diagram



Dimension drawing

