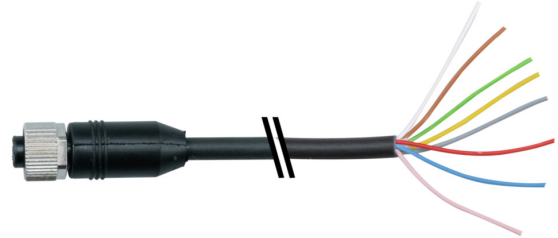


Overview

- M12, female, A-coded; 8-poles; PUR, 500 cm, open cable end
- Dragchain capable, suitable for robotics $\pm 180^\circ/\text{m}$
- Head A: IP65, IP66K, IP67
- Cable: good resistance against chemicals, flames and oils
- Halogen free



Technical data

Side A		Cables	
Head A: Connection	M12	Cable length	500 cm
Head A: Angle cable outlet	0°	Stripping length	60 mm
Head A: Gender	Female	Shielded	No
Head A: Coding	A	Conductor structure	42 × 0.1 mm
Head A: No. of poles	8	AWG	24
Head A: LED	No	External sheath: Material	PUR
Head A: Width across flats	AF13	External sheath: Color	Black
Head A: Tightening torque	0.6 Nm	Cable diameter	5.8 mm ± 5%
Head A: Knurled nut material	Zinc-pressure die casting, surface Ni	Wire cross section	0.25 mm²
Head A: Body color	Black	Cable: Halogen free	Yes
Head A: Gasket material	FKM	Cable	
Labeling sleeve side A	Yes	Cable: Temperature range (mobile)	- 25 ...+ 80 °C
Head A: Contact layout pin 1	WH	Cable: Temperature range (fixed)	- 40 ...+ 80 °C
Head A: Contact layout pin 2	BN	Operating voltage (only UL listed)	30 V AC/DC
Head A: Contact layout pin 3	GN	Shielded	No
Head A: Contact layout pin 4	YE	Bending radius (fixed)	29 mm
Head A: Contact layout pin 5	GY	Number of wires	8
Head A: Contact layout pin 6	PK	Number and diameter of wires	8x0.25
Head A: Contact layout pin 7	BU	Cable length	500 cm
Head A: Contact layout pin 8	RD	Acceleration (C-track)	max. 10 m/s²
Side B		AWG	24
Head B: Connection	Open-ended wires	Bending radius (fixed)	min. 5 × outer diameter
Labeling sleeve side B	Yes	Torsion speed	max. 35 cycles/min
		Bending radius (mobile)	min. 10 × outer diameter
		Cable type	3
		Cable weight	approx. 58.3 g/m
		Conductor structure	42 × 0.1 mm

Technical data
Cable

Cable diameter	5.8 mm ± 5%
Conductor: Material	Copper, bare
External sheath: Material	PUR
Insulation: Material	PP
No. of bending cycles (C-track)	approx. 10000000 Cycles
Nominal voltage	300 V
No. of torsion cycles	approx. 2000000 Cycles
Paired stranding	No
Single wire diameter	0.1 mm
Cable: Test voltage	2.5 kV 0
Torsion stress in °	± 180 °/m
Total stranding	8 wires strand around core-filler
Travel speed (C-track)	max. 3 m/s
Traversing path (horizontal)	max. 10 m
Wire cross section	0.25 mm ²
Wire processing	No
Wire diameter incl. isolation	1.2 mm ± 5%
External sheath: Color	Black

Electrical data

Operating voltage	max. 30 V AC/DC
Operating voltage (only UL listed)	30 V AC/DC
Nominal voltage	300 V
Operating current per contact	max. 2 A

Mechanical data

Head A: Degree of protection	IP65, IP66K, IP67
Bending radius (mobile)	min. 10 × outer diameter
Bending radius (fixed)	min. 5 × outer diameter

Mechanical data

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 ...+ 80 °C
Cable: Temperature range (fixed)	- 40 ...+ 80 °C
Dragchain capable	Yes
Head A: Chemical resistance	No
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	No
Head A: Pollution degree	3
Cable: Chemical resistance	Good (DIN EN 60811-404)
Cable: Flame resistance	Conform UL 1581 §1090 (H)
Cable: Oil resistance	Good (DIN EN 60811-404)
Cable: Silicone-free	Yes
Cable: UV resistance	Yes

Commercial data

Eclass	27061801
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Connection diagram

1	WH
2	BN
3	GN
4	YE
5	GY
6	PK
7	BU
8	RD