

Overview

- M12, male, A-coded, 5-poles; PUR, 2500 cm; M12, female, 90°, A-coded, 5-poles
- 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

Head A: Connection	M12
Head A: Angle cable outlet	0°
Head A: Gender	Male
Head A: Coding	A
Head A: No. of poles	5
Head A: LED	No
Head A: Width across flats	AF13
Head A: Knurled nut material	Zinc-pressure die casting, surface Ni
Head A: Body color	Black
Labeling sleeve side A	Yes
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
Head A: Contact layout pin 5	GY

Side B

Head B: Connection	M12
Head B: Angle cable outlet	90°
Head B: Gender	Female
Head B: Coding	A
Head B: No. of poles	5
Head B: LED	No
Head B: Width across flats	AF13
Head B: Knurled nut material	Zinc-pressure die casting, surface Ni
Head B: Body color	Black
Head B: Gasket material	FKM
Labeling sleeve side B	Yes
Head B: Contact layout pin 1	BN
Head B: Contact layout pin 2	WH
Head B: Contact layout pin 3	BU

Side B

Head B: Contact layout pin 4	BK
Head B: Contact layout pin 5	GY

Cables

Cable length	2500 cm
Shielded	No
AWG	22
External sheath: Material	PUR
External sheath: Color	Black
Cable diameter	4.5 mm $\pm$ 5%
Wire cross section	0.34 mm ²
Cable: Halogen free	Yes

Cable

Operating voltage (only UL listed)	30 V AC/DC
Shielded	No
Bending radius (fixed)	22.5 mm
Number of wires	5
Number and diameter of wires	5x0.34
Cable length	2500 cm
AWG	22
Torsion speed	max. 35 cycles/min
Cable type	3
Cable diameter	4.5 mm $\pm$ 5%
Conductor: Material	Copper, bare
External sheath: Material	PUR
Insulation: Material	PP
Paired stranding	No
Torsion stress in °	$\pm 180^\circ/\text{m}$
Total stranding	5 wires strand around core-filler
Wire cross section	0.34 mm ²
Wire processing	No
External sheath: Color	Black

Electrical data

Operating voltage (only UL listed)	30 V AC/DC
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Technical data
Mechanical data

Head A: Degree of protection	IP65, IP66K, IP67
Head B: Degree of protection	IP65, IP66K, IP67
Torsion speed	max. 35 cycles/min
Torsion stress in °	± 180 °/m

Environmental conditions

Temperature range (mobile)	- 25 ...+ 80 °C
Temperature range (fixed)	- 25 ...+ 85 °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

Environmental conditions

Head A: Pollution degree	3
Head B: Chemical resistance	No
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	No
Head B: 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	27060311
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