

Overview

- M12, connector, A-coded, 8-pin; PUR, 100 cm, M12, female, 90°, A-coded, 8-pin
- Dragchain capable
- Head A: IP65, IP66K, IP67; Head B: IP65, IP66K, IP67
- Cable: good resistance against chemicals 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	8
Head A: LED	No
Head A: Width across flats	AF13
Head A: Tightening torque	0.6 Nm
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	WH
Head A: Contact layout pin 2	BN
Head A: Contact layout pin 3	GN
Head A: Contact layout pin 4	YE
Head A: Contact layout pin 5	GY
Head A: Contact layout pin 6	PK
Head A: Contact layout pin 7	BU
Head A: Contact layout pin 8	RD

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	8
Head B: LED	No
Head B: Width across flats	AF13
Head B: Tightening torque	0.6 Nm
Head B: Knurled nut material	Zinc-pressure die casting, surface Ni
Head B: Body color	Black
Head B: Gasket material	FKM

Side B

Labeling sleeve side B	Yes
Head B: Contact layout pin 1	WH
Head B: Contact layout pin 2	BN
Head B: Contact layout pin 3	GN
Head B: Contact layout pin 4	YE
Head B: Contact layout pin 5	GY
Head B: Contact layout pin 6	PK
Head B: Contact layout pin 7	BU
Head B: Contact layout pin 8	RD

Cables

Cable length	100 cm
Shielded	No
Conductor structure	42 × 0.1 mm
AWG	24
External sheath: Material	PUR
External sheath: Color	Black
Cable diameter	5.8 mm ± 5%
Wire cross section	0.25 mm²
Cable: Halogen free	Yes

Cable

External sheath: Shore hardness	90 ± 5 A
Cable: Temperature range (mobile)	- 25 ...+ 80 °C
Cable: Temperature range (fixed)	- 40 ...+ 80 °C
Operating voltage (only UL listed)	30 V AC/DC
Shielded	No
Bending radius (fixed)	29 mm
Number of wires	8
Number and diameter of wires	8x0.25

Technical data
Cable

Cable length	100 cm
Acceleration (C-track)	max. 10 m/s ²
AWG	24
Bending radius (fixed)	min. 5 × outer diameter
Torsion speed	max. 35 cycles/min
Bending radius (mobile)	min. 10 × outer diameter
Cable type	3
Cable weight	approx. 58.3 g/m
Wire 1: Color	WH
Wire 2: Color	BN
Wire 3: Color	GN
Wire 4: Color	YE
Wire 5: Color	GY
Wire 6: Color	PK
Wire 7: Color	BU
Wire 8: Color	RD
Conductor structure	42 × 0.1 mm
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 0
Operating voltage (only UL listed)	30 V AC/DC
Nominal voltage	300 V
Contact resistance	max. 30 mOhm
Operating current per contact	max. 2 A

Mechanical data

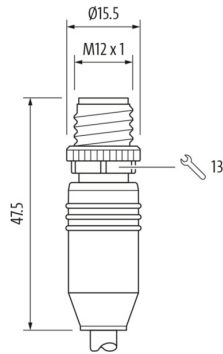
Head A: Degree of protection	IP65, IP66K, IP67
Head B: Degree of protection	IP65, IP66K, IP67
Bending radius (mobile)	min. 10 × outer diameter
Bending radius (fixed)	min. 5 × outer diameter
No. of bending cycles (C-track)	approx. 10000000 Cycles
Torsion speed	max. 35 cycles/min
Torsion stress in °	± 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
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
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

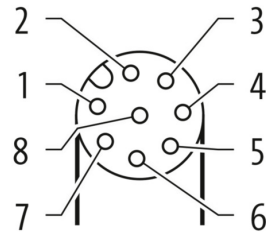
Side A

Technical drawing

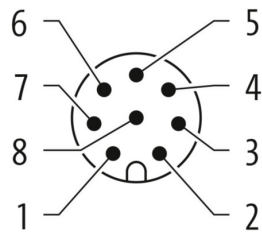


Side B

Coding



Coding

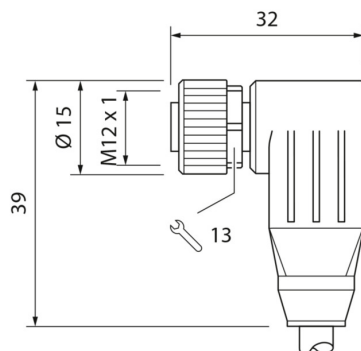


Connection diagram

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

Side B

Technical drawing



Dimension drawing

