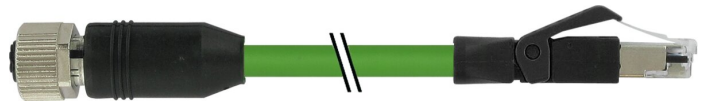


Overview

- M12, female, X-coded, 8-poles; PUR, 100 cm, shielded; RJ45, male, X-coded, 8-poles
- Dragchain capable; suitable for robotics $\pm 180^\circ/\text{m}$, CAT6A, 10Gbit/s
- Head A: IP66K, IP67; Head B: IP20
- Cable: good resistance against flames, oils
- Halogen free



Technical data

Side A		Side B	
Head A: Connection	M12	Head B: Contact layout pin 3	GNWH
Head A: Angle cable outlet	0°	Head B: Contact layout pin 4	BU
Head A: Gender	Female	Head B: Contact layout pin 5	BUWH
Head A: Coding	X	Head B: Contact layout pin 6	GN
Head A: No. of poles	8	Head B: Contact layout pin 7	BNWH
Head A: LED	No	Head B: Contact layout pin 8	BN
Head A: Width across flats	AF13	Cables	
Head A: Tightening torque	0.6 Nm	Cable length	100 cm
Head A: Knurled nut material	Zinc-pressure die casting, surface Ni	Length tolerance	+ 5 cm
Head A: Body color	Black	Shielded	Yes
Head A: Gasket material	FKM	Conductor structure	7 × 0.203 mm
Labeling sleeve side A	Yes	AWG	24
Head A: Contact layout pin 1	OGWH	External sheath: Material	PUR
Head A: Contact layout pin 2	OG	External sheath: Color	Green
Head A: Contact layout pin 3	GNWH	Cable diameter	8.9 mm $\pm 5\%$
Head A: Contact layout pin 4	GN	Wire cross section	0.227 mm ²
Head A: Contact layout pin 5	BNWH	Cable: Halogen free	Yes
Head A: Contact layout pin 6	BN	Cable	
Head A: Contact layout pin 7	BUWH	Cable: Temperature range (mobile)	- 30 ...+ 70 °C
Head A: Contact layout pin 8	BU	Cable: Temperature range (fixed)	- 40 ...+ 80 °C
Side B		Operating voltage (only UL listed)	30 V AC/DC
Head B: Connection	RJ45	Shielded	Yes
Head B: Angle cable outlet	0°	Shielding: Covering	Approx. 85 %
Head B: Gender	Male	Characteristic impedance	100 Ohm $\pm 15\%$
Head B: No. of poles	8	Signal delay	5.2 ns/m
Head B: LED	No	Transmission rate	10 Gbit/s
Head B: Body color	Black	Bending radius (fixed)	71.2 mm
Labeling sleeve side B	Yes	Number of wires	8
Head B: Contact layout pin 1	OGWH	Number and diameter of wires	8x0.227
Head B: Contact layout pin 2	OG	Length tolerance	+ 5 cm
		Cable length	100 cm

Technical data
Cable

Acceleration (C-track)	Max. 4 m/s ²
AWG	24
Bending radius (fixed)	Min. 8 × outer diameter
Bending radius (mobile)	Min. 15 × outer diameter
Cable weight	Approx. 116.6 g/m
Conductor structure	7 × 0.203 mm
Cable diameter	8.9 mm ±5 %
Insulation resistance	Min. 5 MOhm x m
Conductor: Material	Copper, bare
External sheath: Material	PUR
Insulation: Material	PE
Shielding: Material	Copper, tinned; PET aluminium coated
No. of bending cycles (C-track)	Approx. 2000000 Cycles
Nominal voltage	300 V
Paired stranding	Yes
Single wire diameter	0.203 mm
Cable: Test voltage	1.5 kV AC core-core ; 1 kV AC core-shield
Total stranding	4 x 2 wires strand to pair, pairs strand around central separator
Travel speed (C-track)	Max. 3 m/s
Traversing path (horizontal)	Max. 5 m
Wire cross section	0.227 mm ²
Wire processing	No
Wire diameter incl. isolation	1.05 mm ±5 %
External sheath: Color	Green
Protocols	CAT6A

Electrical data

Operating voltage	Max. 60 V DC
Operating voltage (only UL listed)	30 V AC/DC
Nominal voltage	300 V
Contact resistance	Max. 30 mOhm
Operating current per contact	Max. 0.5 A

Mechanical data

Head A: Degree of protection	IP66K, IP67
Head B: Degree of protection	IP20
Bending radius (mobile)	Min. 15 × outer diameter
Bending radius (fixed)	Min. 8 × outer diameter
No. of bending cycles (C-track)	Approx. 2000000 Cycles
Acceleration (C-track)	Max. 4 m/s ²
Travel speed (C-track)	Max. 3 m/s

Environmental conditions

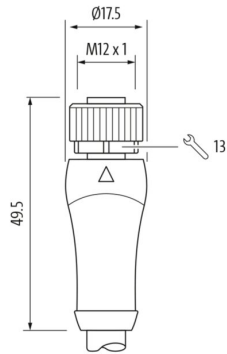
Temperature range (mobile)	- 25 ...+ 70 °C
Temperature range (fixed)	- 25 ...+ 85 °C
Cable: Temperature range (fixed)	- 40 ...+ 80 °C
Dragchain capable	Yes
Head A: Chemical resistance	No
Head A: Flame resistance	HB (UL 94)
Head A: Oil resistance	ASTM 1 oil, mineral oils, limited to hydraulic oils
Head 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: Pollution degree	3
Cable: Flame resistance	Conform UL 1581 §1090, §1100 (FT2), IEC 60332-1-2 Std.
Cable: Oil resistance	Conform IEC 60811-2-1, ASTM IRM 901, ICEA S-82-552 Std.
Cable: Silicone-free	Yes
Cable: UV resistance	Yes

Commercial data

Eclass	27061801
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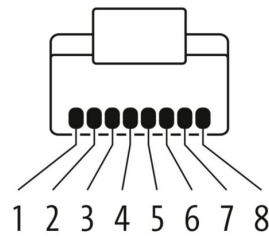
Side A

Technical drawing

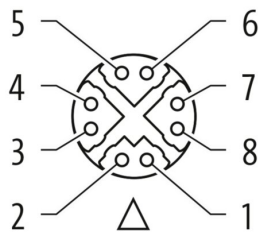


Side B

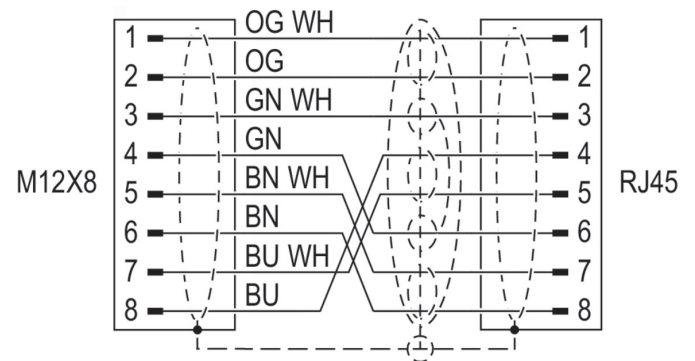
Coding



Coding



Connection diagram



Dimension drawing

Side B

Technical drawing

