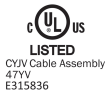


Overview

- M12, male, D-coded, 4-poles; PUR, 1000 cm, shielded; RJ45, male, 4-poles
- Suitable for robotics $\pm 180^\circ/\text{m}$
- Head A: IP67; Head B: IP20
- Cable: good resistance against flames, oils



Technical data

Side A		Cables	
Head A: Connection	M12	AWG	22/19
Head A: Angle cable outlet	0°	External sheath: Material	PUR
Head A: Gender	Male	External sheath: Color	Green
Head A: Coding	D	Cable diameter	6.6 mm $\pm$ 5%
Head A: No. of poles	4	Cable: Halogen free	Yes
Head A: LED	No	Cable	
Head A: Width across flats	AF13	Cable: Temperature range (mobile)	- 20 ...+ 60 °C
Head A: Tightening torque	0.6 Nm	Cable: Temperature range (fixed)	- 40 ...+ 80 °C
Head A: Knurled nut material	Zinc-pressure die casting, surface Ni	Operating voltage (only UL listed)	30 V AC/DC
Head A: Body color	Black	Shielded	Yes
Labeling sleeve side A	Yes	Shielding: Covering	approx. 85 %
Head A: Contact layout pin 1	YE	Characteristic impedance	100 mOhm $\pm$ 15%
Head A: Contact layout pin 2	WH	Signal delay	5 ns/m
Head A: Contact layout pin 3	OG	Transmission rate	100 MBit/s
Head A: Contact layout pin 4	BU	Bending radius (fixed)	52.8 mm
Side B		Length tolerance	$\pm$ 15 cm
Head B: Connection	RJ45	Cable length	1000 cm
Head B: Angle cable outlet	0°	AWG	22/19
Head B: Gender	Male	Bending radius (fixed)	min. 8 $\times$ outer diameter
Head B: No. of poles	4	Bending radius (mobile)	min. 12 $\times$ outer diameter
Head B: LED	No	Cable weight	approx. 67 g/m
Head B: Body color	Black	Conductor structure	19 $\times$ 0.16 mm
Labeling sleeve side B	Yes	Cable diameter	6.6 mm $\pm$ 5%
Head B: Contact layout pin 1	YE	Insulation resistance	min. 5 MOhm $\times$ m
Head B: Contact layout pin 2	OG	Conductor: Material	Copper, tinned
Head B: Contact layout pin 3	WH	External sheath: Material	PUR
Head B: Contact layout pin 6	BU	Insulation: Material	PE
Cables		Shielding: Material	Copper, tinned; PET aluminium coated
Cable length	1000 cm	Nominal voltage	300 V
Length tolerance	$\pm$ 15 cm	Paired stranding	No
Shielded	Yes	Single wire diameter	0.16 mm
Conductor structure	19 $\times$ 0.16 mm	Cable: Test voltage	2 kV AC
		Torsion stress in °	$\pm$ 180 °/m
		Wire processing	No
		Wire diameter incl. isolation	1.6 mm $\pm$ 5%
		External sheath: Color	Green
		Protocols	CAT5e

Technical data

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. 1.5 A

Mechanical data

Head A: Degree of protection	IP67
Head B: Degree of protection	IP20
Bending radius (mobile)	min. 12 × outer diameter
Bending radius (fixed)	min. 8 × outer diameter
Torsion stress in °	± 180 °/m

Environmental conditions

Temperature range (mobile)	- 20 ... + 60 °C
Temperature range (fixed)	- 25 ... + 85 °C
Cable: Temperature range (fixed)	- 40 ... + 80 °C
Dragchain capable	No
Head A: Chemical resistance	No
Head A: Flame resistance	HB (UL 94)

Environmental conditions

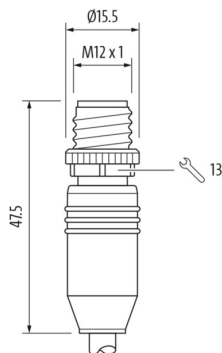
Head A: Oil resistance	ASTM 1 oil, mineral oils, limited to hydraulic oils
Head A: Acid and alkali resistant	No
Head A: Pollution degree	3
Head B: Chemical resistance	No
Head B: Flame resistance	HB (UL 94)
Head B: Oil resistance	ASTM 1 oil, mineral oils, limited to hydraulic oils
Head B: Acid and alkali resistant	No
Head B: Pollution degree	3
Cable: Chemical resistance	No
Cable: Flame resistance	Conform UL 1581 §1060 (FT1), §1061 (cable flame), §1080 (VW-1), IEC 60332-1-2 Std.
Cable: Oil resistance	Conform IEC 60811-2-1, ICEA S-82-552, ASTM-oil 1 Std.
Cable: Acid and alkali resistant	No
Cable: Silicone-free	Yes
Cable: UV resistance	Yes

Commercial data

Eclass	27061801
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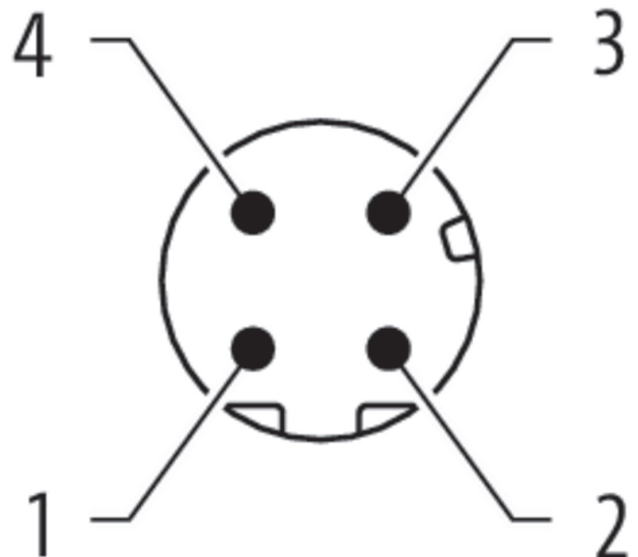
Side A

Technical drawing



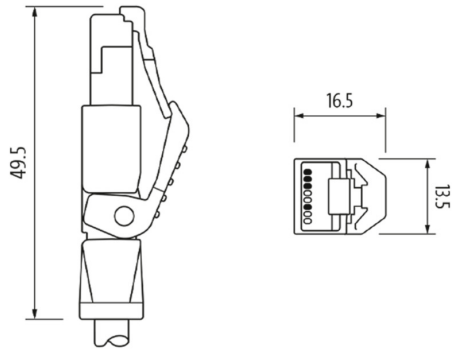
Side A

Coding

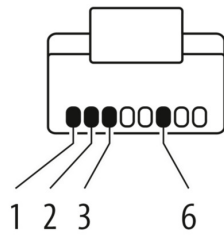


Side B

Technical drawing



Coding



Connection diagram

