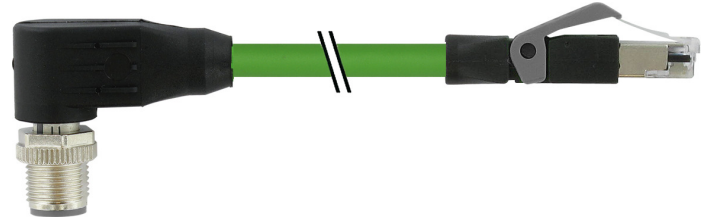


**Overview**

- 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**

Head A: Connection	M12
Head A: Angle cable outlet	90°
Head A: Cable outlet to inlay	315°
Head A: Gender	Male
Head A: Coding	D
Head A: No. of poles	4
Head A: LED	No
Head A: Width across flats	SW13
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

**Side B**

Head B: Connection	RJ45
Head B: Angle cable outlet	0°
Head B: Gender	Male
Head B: No. of poles	4
Head B: LED	No
Head B: Body color	Black
Labeling sleeve side B	Yes

**Cables**

Cable length	1000 cm
Length tolerance	$\pm 15$ cm
Shielded	Yes
Conductor structure	19 $\times$ 0.16 mm
AWG	22/19
External sheath: Material	PUR
External sheath: Color	Green
Cable diameter	6.6 mm $\pm$ 5%

**Electrical data**

Operating voltage	max. 60 V DC
Operating voltage (only UL listed)	30 V DC
Nominal voltage	300 V
Contact resistance	max. 30 mOhm
Operating current per contact	max. 1.5 A

**Mechanical data**

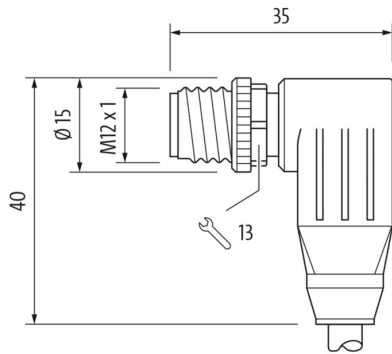
Head A: Degree of protection	IP67
Head B: Degree of protection	IP20
Bending radius (mobile)	min. 12 $\times$ outer diameter
Bending radius (fixed)	min. 8 $\times$ outer diameter
Torsion stress in $^\circ$	$\pm 180^\circ/\text{m}$

**Environmental conditions**

Temperature range (mobile)	- 20 ...+ 60 $^\circ\text{C}$
Temperature range (fixed)	- 25 ...+ 80 $^\circ\text{C}$
Cable: Temperature range (fixed)	- 40 ...+ 80 $^\circ\text{C}$
Dragchain capable	No
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: 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

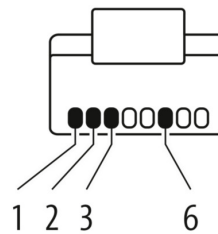
**Side A**

**Technical drawing**

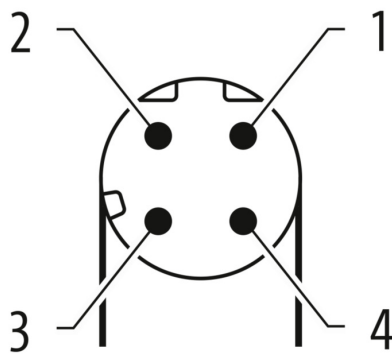


**Side B**

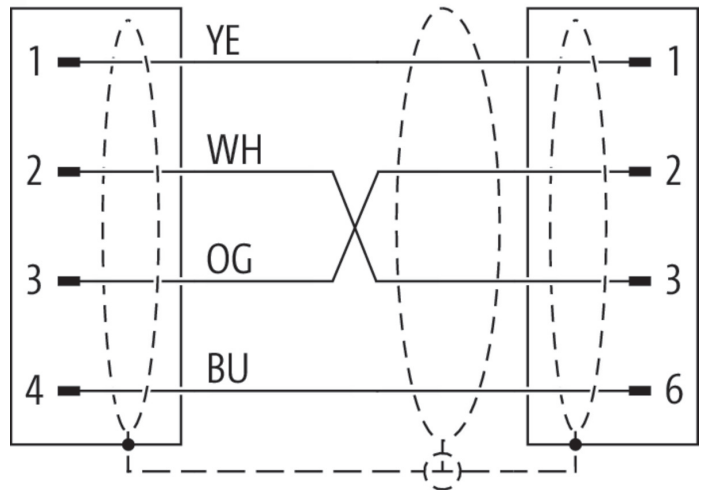
**Coding**



**Coding**



**Connection diagram**



**Side B**

**Technical drawing**

