

**Overview**

- M12, male, L-coded; 5-poles; PUR, 200 cm, free cable end
- Dragchain capable; suitable for robotics  $\pm 180^\circ/\text{m}$
- Head A: IP65, IP67
- Cable: good resistance against chemicals, flames, oils
- Halogen free



**Technical data**

**Side A**

Head A: Connection	M12
Head A: Angle cable outlet	0°
Head A: Gender	Male
Head A: Coding	L
Head A: No. of poles	5
Head A: LED	No
Head A: Width across flats	AF17
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	Open-ended wires
Labeling sleeve side B	Yes

**Cables**

Cable length	200 cm
Length tolerance	+ 10 cm
Stripping length	100 mm
Shielded	No
Conductor structure	84 × 0.15 mm
AWG	16
External sheath: Material	PUR
External sheath: Color	Black
Cable diameter	8.7 mm $\pm$ 5%
Wire cross section	1.5 mm <sup>2</sup>

**Cable**

Cable: Temperature range (mobile)	- 20 ...+ 80 °C
Cable: Temperature range (fixed)	- 50 ...+ 80 °C
Shielded	No
Bending radius (fixed)	65.25 mm
Number of wires	5
Number and diameter of wires	5x1.5
Length tolerance	+ 10 cm
Cable length	200 cm
Acceleration (C-track)	max. 5 m/s <sup>2</sup>
AWG	16

**Cable**

Bending radius (fixed)	min. 7.5 × outer diameter
Torsion speed	max. 35 cycles/min
Bending radius (mobile)	min. 10 × outer diameter
Cable type	3
Cable weight	approx. 129.8 g/m
Conductor structure	84 × 0.15 mm
Cable diameter	8.7 mm $\pm$ 5%
Conductor: Material	Copper, bare
External sheath: Material	PUR
Insulation: Material	PP
No. of bending cycles (C-track)	approx. 500000 Cycles
Nominal voltage	1000 V AC
No. of torsion cycles	approx. 200000 Cycles
Paired stranding	No
Single wire diameter	0.15 mm
Cable: Test voltage	10 kV
Torsion stress in °	$\pm 180^\circ/\text{m}$
Total stranding	5 wires strand around core-filler
Travel speed (C-track)	max. 3.3 m/s
Traversing path (horizontal)	max. 5 m
Wire cross section	1.5 mm <sup>2</sup>
Wire processing	No
Wire diameter incl. isolation	2.3 mm $\pm$ 5%
External sheath: Color	Black

**Electrical data**

Operating voltage	max. 63 V DC
Nominal voltage	1000 V AC
Contact resistance	max. 30 mOhm
Operating current per contact	max. 12 A

**Mechanical data**

Head A: Degree of protection	IP65, IP67
Bending radius (mobile)	min. 10 × outer diameter
Bending radius (fixed)	min. 7.5 × outer diameter
No. of bending cycles (C-track)	approx. 500000 Cycles
Torsion speed	max. 35 cycles/min
Torsion stress in °	$\pm 180^\circ/\text{m}$

**Technical data**

**Mechanical data**

No. of torsion cycles	approx. 2000000 Cycles
Acceleration (C-track)	max. 5 m/s <sup>2</sup>
Travel speed (C-track)	max. 3.3 m/s

**Environmental conditions**

Temperature range (mobile)	- 20 ...+ 80 °C
Temperature range (fixed)	- 25 ...+ 80 °C
Cable: Temperature range (fixed)	- 50 ...+ 80 °C
Dragchain capable	Yes
Head A: Chemical resistance	No

**Environmental conditions**

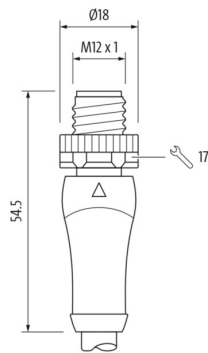
Head A: Flame resistance	V-2 (UL 94)
Head A: Acid and alkali resistant	No
Head A: Pollution degree	3
Cable: Chemical resistance	Good (DIN EN 60811-404)
Cable: Flame resistance	Conform UL 1581 VW-1, CSA FT1, IEC 60332-1, IEC 60332-2-2
Cable: Oil resistance	Good (DIN EN 60811-404)
Cable: Silicone-free	Yes

**Commercial data**

Eclass	27060311
--------	----------

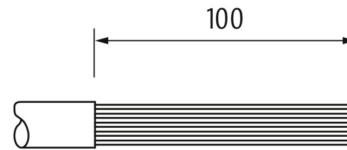
**Side A**

**Technical drawing**

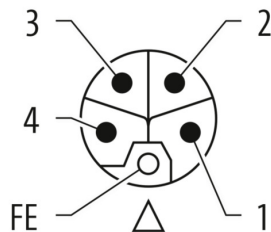


**Side B**

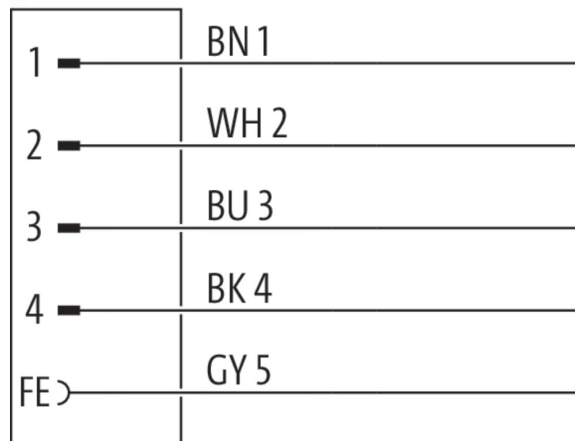
**Technical drawing**



**Coding**



**Connection diagram**



**Dimension drawing**

