

**Overview**

- M12, male, D-coded; 4-poles; TPE-S, 2000 cm, shielded, free cable end
- Dragchain capable; suitable for robotics  $\pm 180$  °/m; suitable for food & beverage
- Head A: IP65, IP68, IP69K
- Halogen free



**Technical data**

Side A		Cable	
Head A: Connection	M12	Acceleration (C-track)	max. 2 m/s <sup>2</sup>
Head A: Angle cable outlet	0°	AWG	22
Head A: Gender	Male	Bending radius (fixed)	min. 5 × outer diameter
Head A: Coding	D	Torsion speed	max. 35 cycles/min
Head A: No. of poles	4	Bending radius (mobile)	min. 15 × outer diameter
Head A: LED	No	Cable weight	approx. 61.6 g/m
Head A: Width across flats	AF14	Conductor structure	7 × 0.25 mm
Head A: Tightening torque	0.6 Nm	Cable diameter	6.5 mm ± 5%
Head A: Knurled nut material	Stainless steel (V4A)	Conductor: Material	Copper, bare
Head A: Body color	Blue	External sheath: Material	TPE-S
Labeling sleeve side A	No	Insulation: Material	PP
<b>Side B</b>		Shielding: Material	Copper, tinned
Head B: Connection	Open-ended wires	No. of bending cycles (C-track)	approx. 2000000 Cycles
Labeling sleeve side B	No	Nominal voltage	300 V AC
<b>Cables</b>		No. of torsion cycles	approx. 2000000 Cycles
Cable length	2000 cm	Paired stranding	No
Length tolerance	± 30 cm	Single wire diameter	0.25 mm
Stripping length	20 mm	Cable: Test voltage	3 kV AC
Shielded	Yes	Torsion stress in °	± 180 °/m
Conductor structure	7 × 0.25 mm	Total stranding	4 wires strand around core-filler
AWG	22	Travel speed (C-track)	max. 3.3 m/s
External sheath: Material	TPE-S	Traversing path (horizontal)	max. 5 m
External sheath: Color	Blue	Wire cross section	0.34 mm <sup>2</sup>
Cable diameter	6.5 mm ± 5%	Wire processing	No
Wire cross section	0.34 mm <sup>2</sup>	Wire diameter incl. isolation	1.55 mm ± 5%
<b>Cable</b>		External sheath: Color	Blue
Cable: Temperature range (mobile)	- 20 ...+ 80 °C	Protocols	CAT5e
Cable: Temperature range (fixed)	- 40 ...+ 80 °C	<b>Electrical data</b>	
Shielded	Yes	Operating voltage	max. 60 V DC
Shielding: Covering	approx. 85 %	Nominal voltage	300 V AC
Bending radius (fixed)	32.5 mm	Contact resistance	max. 30 mOhm
Number of wires	4	Operating current per contact	max. 4 A
Number and diameter of wires	4x0.34	<b>Mechanical data</b>	
Length tolerance	± 30 cm	Head A: Degree of protection	IP65, IP68, IP69K
Cable length	2000 cm	Bending radius (mobile)	min. 15 × outer diameter
		Bending radius (fixed)	min. 5 × outer diameter

**Technical data**

**Mechanical data**

No. of bending cycles (C-track)	approx. 2000000 Cycles
Torsion speed	max. 35 cycles/min
Torsion stress in °	± 180 °/m
No. of torsion cycles	approx. 2000000 Cycles
Acceleration (C-track)	max. 2 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)	- 40 ...+ 80 °C
Cable: Temperature range (fixed)	- 40 ...+ 80 °C
Dragchain capable	Yes
Head A: Chemical resistance	Chemical resistance tested according to ECOLAB. If other media are used, the material resistance must be tested according to the application.

**Environmental conditions**

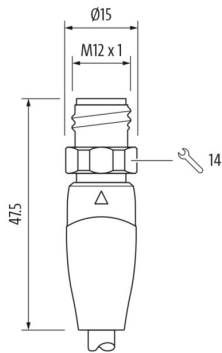
Head A: Flame resistance	HB (UL 94)
Head A: Oil resistance	ASTM 1 oil, mineral oils, limited to hydraulic oils
Head A: Acid and alkali resistant	ECOLAB tested
Head A: Pollution degree	3
Cable: Acid and alkali resistant	Good (FDA 21 178.3620, 178.3297, 177.1520, EU 10/2011)
Cable: Silicone-free	Yes

**Commercial data**

Eclass	27061801
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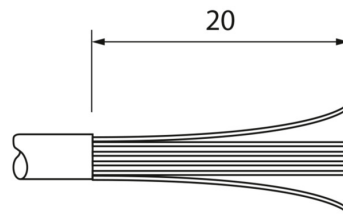
**Side A**

**Technical drawing**

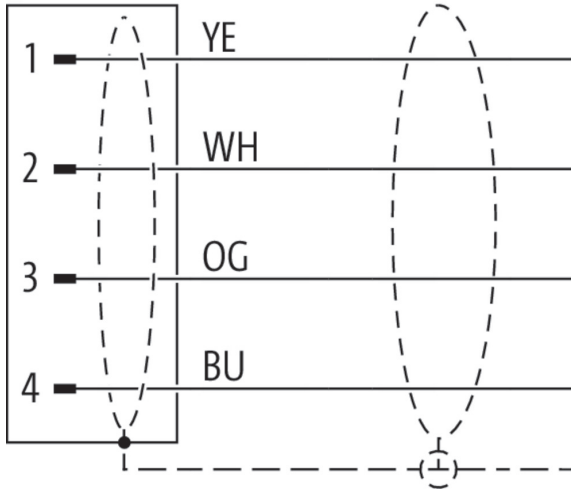


**Side B**

**Technical drawing**



Connection diagram



Dimension drawing

