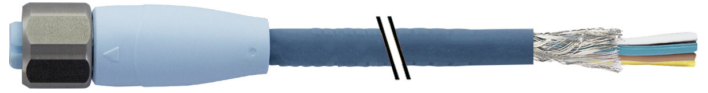


**Overview**

- M12, female, A-coded; 4-poles; TPE-S, 1000 cm, shielded, free cable end
- Dragchain capable; suitable for robotics  $\pm 180^\circ/\text{m}$ ; suitable for food & beverage
- Head A: IP65, IP68, IP69K
- ECOLAB tested
- Halogen free



**Technical data**

Side A		Cable	
Head A: Connection	M12	Number and diameter of wires	4x0.34
Head A: Angle cable outlet	0°	Length tolerance	$\pm 15$ cm
Head A: Gender	Female	Cable length	1000 cm
Head A: Coding	A	Acceleration (C-track)	max. 10 m/s <sup>2</sup>
Head A: No. of poles	4	AWG	22
Head A: LED	No	Bending radius (fixed)	min. 5 × outer diameter
Head A: Width across flats	AF14	Torsion speed	max. 35 cycles/min
Head A: Tightening torque	0.6 Nm	Bending radius (mobile)	min. 10 × outer diameter
Head A: Knurled nut material	Stainless steel (V4A)	Cable weight	approx. 45.1 g/m
Head A: Body color	Blue	Conductor structure	42 × 0.1 mm
Head A: Gasket material	EPDM	Cable diameter	5.6 mm $\pm 5\%$
Labeling sleeve side A	No	Conductor: Material	Copper, bare
Side B		External sheath: Material	TPE-S
Head B: Connection	Open-ended wires	Insulation: Material	PP
Labeling sleeve side B	No	Shielding: Material	Copper, tinned
Cables		No. of bending cycles (C-track)	approx. 4000000 Cycles
Cable length	1000 cm	Nominal voltage	300 V AC
Length tolerance	$\pm 15$ cm	No. of torsion cycles	approx. 2000000 Cycles
Stripping length	20 mm	Paired stranding	No
Shielded	Yes	Single wire diameter	0.1 mm
Conductor structure	42 × 0.1 mm	Cable: Test voltage	3 kV
AWG	22	Torsion stress in °	$\pm 180^\circ/\text{m}$
External sheath: Material	TPE-S	Total stranding	4 wires strand
External sheath: Color	Blue	Travel speed (C-track)	max. 3 m/s
Cable diameter	5.6 mm $\pm 5\%$	Traversing path (horizontal)	max. 10 m
Wire cross section	0.34 mm <sup>2</sup>	Wire cross section	0.34 mm <sup>2</sup>
Cable		Wire processing	No
Cable: Temperature range (mobile)	- 25 ...+ 105 °C	Wire diameter incl. isolation	1.27 mm $\pm 5\%$
Cable: Temperature range (fixed)	- 40 ...+ 105 °C	External sheath: Color	Blue
Operating voltage (only UL listed)	30 V AC/DC	Electrical data	
Shielded	Yes	Operating voltage	max. 60 V AC/DC
Shielding: Covering	approx. 85 %	Operating voltage (only UL listed)	30 V AC/DC
Bending radius (fixed)	28 mm	Nominal voltage	300 V AC
Number of wires	4	Contact resistance	max. 30 mOhm

The product features and technical data specified do not express or imply any warranty. Technical modifications subject to change.

**Technical data**

**Electrical data**

Operating current per contact      max. 4 A

**Mechanical data**

Head A: Degree of protection      IP65, IP68, IP69K

Bending radius (mobile)            min. 10 × outer diameter

Bending radius (fixed)              min. 5 × outer diameter

No. of bending cycles (C-track)    approx. 4000000 Cycles

Torsion speed                            max. 35 cycles/min

Torsion stress in °                    ± 180 °/m

No. of torsion cycles                  approx. 2000000 Cycles

Acceleration (C-track)                max. 10 m/s<sup>2</sup>

Travel speed (C-track)                max. 3 m/s

**Environmental conditions**

Temperature range (mobile)        - 25 ...+ 105 °C

Temperature range (fixed)          - 40 ...+ 105 °C

Cable: Temperature range (fixed) - 40 ...+ 105 °C

**Environmental conditions**

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.

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: Chemical resistance          ECOLAB material resistance test passed

Cable: Acid and alkali resistant    Good (FDA 21 178.3620, 178.3297, 177.1520, EU 10/2011)

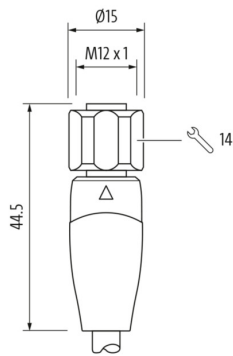
Cable: Silicone-free                  Yes

**Commercial data**

Eclass                                      27060311

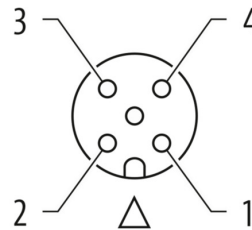
**Side A**

**Technical drawing**



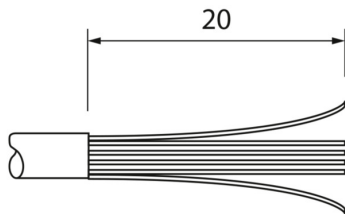
**Side A**

**Coding**

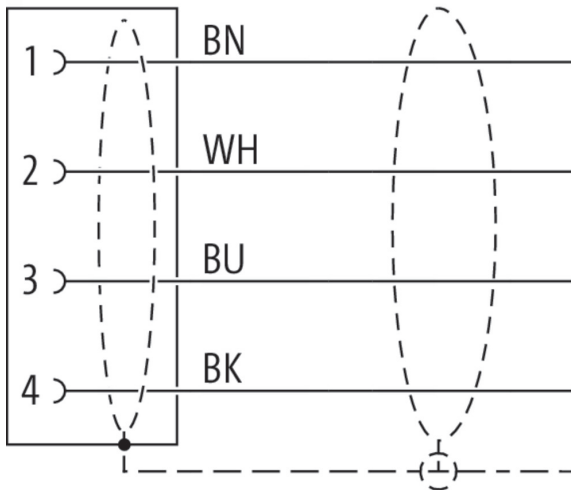


**Side B**

**Technical drawing**



**Connection diagram**



**Dimension drawing**

