

**Overview**

- M12, female, D-coded, 4-poles; PUR, 300 cm, shielded; RJ45, male, D-coded, 4-poles
- Dragchain capable, CAT5, 100 Mbit/s
- Head A: IP67; Head B: IP20
- Cable: good resistance against flames, oils
- Halogen free



**Technical data**

Side A		Cable	
Head A: Connection	M12	Shielding: Covering	approx. 85 %
Head A: Angle cable outlet	0°	Characteristic impedance	100 Ohm ± 15%
Head A: Gender	Female	Signal delay	5.1 ns/m
Head A: Coding	D	Transmission rate	100 MBit/s
Head A: No. of poles	4	Bending radius (fixed)	33.5 mm
Head A: LED	No	Number of wires	4
Head A: Width across flats	AF13	Number and diameter of wires	4x0,355
Head A: Tightening torque	0.6 Nm	Length tolerance	+ 10 cm
Head A: Knurled nut material	Zinc-pressure die casting, surface Ni	Cable length	300 cm
Head A: Body color	Black	Acceleration (C-track)	max. 2 m/s <sup>2</sup>
Head A: Gasket material	FKM	AWG	22
Labeling sleeve side A	Yes	Bending radius (fixed)	min. 5 × outer diameter
<b>Side B</b>		Bending radius (mobile)	min. 12 × outer diameter
Head B: Connection	RJ45	Cable weight	approx. 69.3 g/m
Head B: Angle cable outlet	0°	Wire 1: Color	WH
Head B: Gender	Male	Wire 2: Color	YE
Head B: No. of poles	4	Wire 3: Color	BU
Head B: LED	No	Wire 4: Color	OG
Head B: Body color	Black	Conductor structure	7 × 0.254 mm
Labeling sleeve side B	Yes	Cable diameter	6.7 mm ± 5%
<b>Cables</b>		Insulation resistance	min. 5 MOhm x m
Cable length	300 cm	Conductor: Material	Copper, bare
Length tolerance	+ 10 cm	External sheath: Material	PUR
Shielded	Yes	Insulation: Material	PE
Conductor structure	7 × 0.254 mm	Shielding: Material	Copper, tinned; PET aluminium coated
AWG	22	No. of bending cycles (C-track)	approx. 3000000 Cycles
External sheath: Material	PUR	Nominal voltage	300 V
External sheath: Color	Green	Paired stranding	No
Cable diameter	6.7 mm ± 5%	Single wire diameter	0.254 mm
Wire cross section	0.355 mm <sup>2</sup>	Cable: Test voltage	2 kV AC core-core ; 2 kV AC core-shield
<b>Cable</b>		Total stranding	4 wires strand around core-filler
Cable: Temperature range (mobile)	- 30 ...+ 70 °C	Travel speed (C-track)	max. 3.3 m/s
Cable: Temperature range (fixed)	- 40 ...+ 80 °C	Traversing path (horizontal)	max. 5 m
Operating voltage (only UL listed)	30 V DC	Wire cross section	0.355 mm <sup>2</sup>
Shielded	Yes	Wire processing	No
		Wire diameter incl. isolation	1.4 mm ± 5%
		External sheath: Color	Green

**Technical data**

**Cable**

Protocols CAT5e

**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 × outer diameter

Bending radius (fixed) min. 5 × outer diameter

No. of bending cycles (C-track) approx. 3000000 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) - 25 ... + 70 °C

Temperature range (fixed) - 25 ... + 80 °C

Cable: Temperature range (fixed) - 40 ... + 80 °C

**Environmental conditions**

Dragchain capable Yes

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: 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, ASTM IRM 901, ICEA S-82-552 Std.

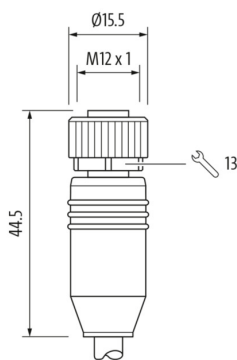
Cable: Silicone-free Yes

**Commercial data**

Eclass 27061801

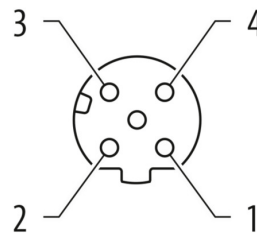
**Side A**

**Technical drawing**



**Side A**

**Coding**



**Side B**

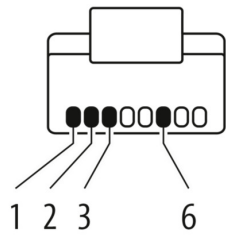
**Technical drawing**



**Dimension drawing**



**Coding**



**Connection diagram**

