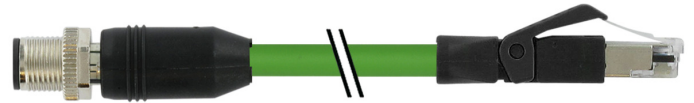


**Overview**

- M12, male, D-coded, 4-poles; PUR, 500 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**

|                              |                                       |
|------------------------------|---------------------------------------|
| Head A: Connection           | M12                                   |
| Head A: Angle cable outlet   | 0°                                    |
| Head A: Gender               | Male                                  |
| Head A: Coding               | D                                     |
| Head A: No. of poles         | 4                                     |
| Head A: LED                  | No                                    |
| Head A: Width across flats   | AF13                                  |
| 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              | 500 cm                |
| Length tolerance          | ± 7.5 cm              |
| Shielded                  | Yes                   |
| Conductor structure       | 7 × 0.254 mm          |
| AWG                       | 22                    |
| External sheath: Material | PUR                   |
| External sheath: Color    | Green                 |
| Cable diameter            | 6.7 mm ± 5%           |
| Wire cross section        | 0.355 mm <sup>2</sup> |

**Cable**

|                                    |                 |
|------------------------------------|-----------------|
| Cable: Temperature range (mobile)  | - 30 ...+ 70 °C |
| Cable: Temperature range (fixed)   | - 40 ...+ 80 °C |
| Operating voltage (only UL listed) | 30 V DC         |
| Shielded                           | Yes             |
| Shielding: Covering                | approx. 85 %    |

**Cable**

|                                 |   |
|---------------------------------|---|
| Characteristic impedance        | 100 Ohm ± 15%                           |
| Signal delay                    | 5.1 ns/m                                |
| Transmission rate               | 100 MBit/s                              |
| Bending radius (fixed)          | 33.5 mm                                 |
| Number of wires                 | 4                                       |
| Number and diameter of wires    | 4x0,355                                 |
| Length tolerance                | ± 7.5 cm                                |
| Cable length                    | 500 cm                                  |
| Acceleration (C-track)          | max. 2 m/s <sup>2</sup>                 |
| AWG                             | 22                                      |
| Bending radius (fixed)          | min. 5 × outer diameter                 |
| Bending radius (mobile)         | min. 12 × outer diameter                |
| Cable weight                    | approx. 69.3 g/m                        |
| Wire 1: Color                   | WH                                      |
| Wire 2: Color                   | YE                                      |
| Wire 3: Color                   | BU                                      |
| Wire 4: Color                   | OG                                      |
| Conductor structure             | 7 × 0.254 mm                            |
| Cable diameter                  | 6.7 mm ± 5%                             |
| Insulation resistance           | min. 5 MOhm x m                         |
| Conductor: Material             | Copper, bare                            |
| External sheath: Material       | PUR                                     |
| Insulation: Material            | PE                                      |
| Shielding: Material             | Copper, tinned; PET aluminium coated    |
| No. of bending cycles (C-track) | approx. 3000000 Cycles                  |
| Nominal voltage                 | 300 V                                   |
| Paired stranding                | No                                      |
| Single wire diameter            | 0.254 mm                                |
| Cable: Test voltage             | 2 kV AC core-core ; 2 kV AC core-shield |
| Total stranding                 | 4 wires strand around core-filler       |
| Travel speed (C-track)          | max. 3.3 m/s                            |
| Traversing path (horizontal)    | max. 5 m                                |
| Wire cross section              | 0.355 mm <sup>2</sup>                   |
| Wire processing                 | No                                      |
| Wire diameter incl. isolation   | 1.4 mm ± 5%                             |
| External sheath: Color          | Green                                   |
| Protocols                       | CAT5e                                   |

**Technical data**

**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**

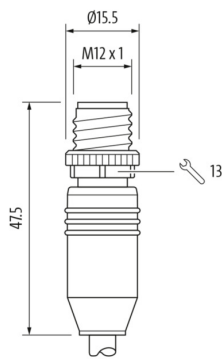
|                                   |  |
|-----------------------------------|--|
| Dragchain capable                 | Yes  |
| Head A: Chemical resistance       | No   |
| Head A: Flame resistance          | HB (UL 94)   |
| Head A: Oil resistance            | ASTM 1 oil, mineral oils, limited to hydraulic 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 |
|--------|----------|

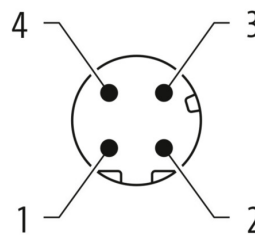
**Side A**

**Technical drawing**



**Side A**

**Coding**



**Side B**

**Technical drawing**



**Dimension drawing**



**Coding**



**Connection diagram**

