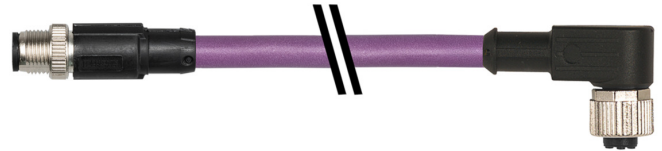


## Overview

- M12 male 0° / M12 female 90° A-cod.
- PUR AWG24+22 shielded vt UL/CSA+drag ch.
- Suitable for CANopen and DeviceNet
- 200 cm



## Technical data

### Side A

|                              |                                       |
|------------------------------|---------------------------------------|
| Head A: Connection           | M12                                   |
| Head A: Angle cable outlet   | 0°                                    |
| Head A: Gender               | Male                                  |
| Head A: Coding               | A                                     |
| Head A: No. of poles         | 5                                     |
| 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 |
| Labeling sleeve side A       | Yes                                   |
| Head A: Contact layout pin 1 | Shield                                |
| Head A: Contact layout pin 2 | RD                                    |
| Head A: Contact layout pin 3 | BK                                    |
| Head A: Contact layout pin 4 | WH                                    |
| Head A: Contact layout pin 5 | BU                                    |

### Side B

|                              |        |
|------------------------------|--------|
| Head B: Connection           | M12    |
| Head B: Angle cable outlet   | 90°    |
| Head B: Gender               | Female |
| Head B: Coding               | A      |
| Head B: No. of poles         | 5      |
| Head B: LED                  | No     |
| Head B: Width across flats   | AF13   |
| Head B: Tightening torque    | 0.6 Nm |
| Head B: Contact layout pin 1 | Shield |
| Head B: Contact layout pin 2 | RD     |
| Head B: Contact layout pin 3 | BK     |

### Side B

|                              |    |
|------------------------------|----|
| Head B: Contact layout pin 4 | WH |
| Head B: Contact layout pin 5 | BU |

### Cables

|                           |              |
|---------------------------|--------------|
| Cable length              | 200 cm       |
| Shielded                  | Yes          |
| Conductor structure       | 19 × 0.15 mm |
| External sheath: Material | PUR          |
| External sheath: Color    | Violet       |
| Cable diameter            | 6.9 mm ± 5%  |
| Wire cross section        | 0.25 mm²     |

### Cable

|                                   |                          |
|-----------------------------------|--------------------------|
| Cable: Temperature range (mobile) | - 30 ...+ 70 °C          |
| Cable: Temperature range (fixed)  | - 40 ...+ 80 °C          |
| Cable diameter tolerance          | 6.9 ± 5 %                |
| Shielded                          | Yes                      |
| Characteristic impedance          | 120 Ohm ± 10%            |
| Bending radius (fixed)            | 41.4 mm                  |
| Number of wires                   | 5                        |
| Number and diameter of wires      | -, -                     |
| Cable length                      | 200 cm                   |
| Bending radius (fixed)            | min. 6 × outer diameter  |
| Bending radius (mobile)           | min. 10 × outer diameter |
| Cable weight                      | approx. 63.1 g/m         |
| Wire 2: Color                     | RD                       |
| Wire 3: Color                     | BK                       |
| Wire 4: Color                     | WH                       |
| Wire 5: Color                     | BU                       |
| Conductor structure               | 19 × 0.15 mm             |
| Cable diameter                    | 6.9 mm ± 5%              |
| Insulation resistance             | - 5 MOhm x m             |

## Technical data

### Cable

|                                 |                        |
|---------------------------------|------------------------|
| Conductor: Material             | Copper, bare           |
| External sheath: Material       | PUR                    |
| Insulation: Material            | PE                     |
| No. of bending cycles (C-track) | approx. 1000000 Cycles |
| Nominal voltage                 | 300 V                  |
| Paired stranding                | Yes                    |
| Travel speed (C-track)          | max. 3 m/s             |
| Wire cross section              | 0.25 mm <sup>2</sup>   |
| External sheath: Color          | Violet                 |
| Protocols                       | CANopen                |

### Electrical data

|                               |                 |
|-------------------------------|-----------------|
| Operating voltage             | max. 60 V AC/DC |
| Nominal voltage               | 300 V           |
| Contact resistance            | max. 30 mOhm    |
| Operating current per contact | max. 4 A        |

### Mechanical data

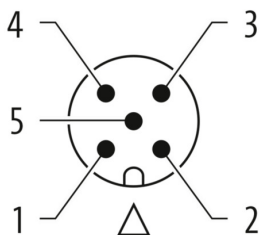
|                                 |                          |
|---------------------------------|--------------------------|
| Head A: Degree of protection    | IP65, IP66K, IP67        |
| Bending radius (mobile)         | min. 10 × outer diameter |
| Bending radius (fixed)          | min. 6 × outer diameter  |
| No. of bending cycles (C-track) | approx. 1000000 Cycles   |
| Travel speed (C-track)          | max. 3 m/s               |

### Environmental conditions

|                                   |                                                                                                                                                                              |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature range (mobile)        | - 25 ...+ 70 °C                                                                                                                                                              |
| Temperature range (fixed)         | - 25 ...+ 80 °C                                                                                                                                                              |
| Cable: Temperature range (fixed)  | - 40 ...+ 80 °C                                                                                                                                                              |
| Dragchain capable                 | Yes                                                                                                                                                                          |
| Head A: Chemical resistance       | No                                                                                                                                                                           |
| Head A: Flame resistance          | HB (UL 94)                                                                                                                                                                   |
| Head A: Oil resistance            | Good resistance to ASTM 1 oil and mineral oils. Limited resistance to hydraulic oils. If other oils are used, the resistance must be checked in relation to the application. |
| Head A: Acid and alkali resistant | No                                                                                                                                                                           |
| Head B: Chemical resistance       | No                                                                                                                                                                           |
| Head B: Flame resistance          | HB (UL 94)                                                                                                                                                                   |
| Head B: Oil resistance            | Good resistance to ASTM 1 oil and mineral oils. Limited resistance to hydraulic oils. If other oils are used, the resistance must be checked in relation to the application. |
| Head B: Acid and alkali resistant | No                                                                                                                                                                           |
| Cable: Oil resistance             | Good (DIN EN 60811-404)                                                                                                                                                      |

## Side A

### Coding



## Side B

### Coding

