

**M12 male 90° / M12 female 90° A-cod.**

PUR AWG24+22 shielded bk UL/CSA+drag ch. 0.5m

DeviceNet, CANopen

Male 90° – female 90°

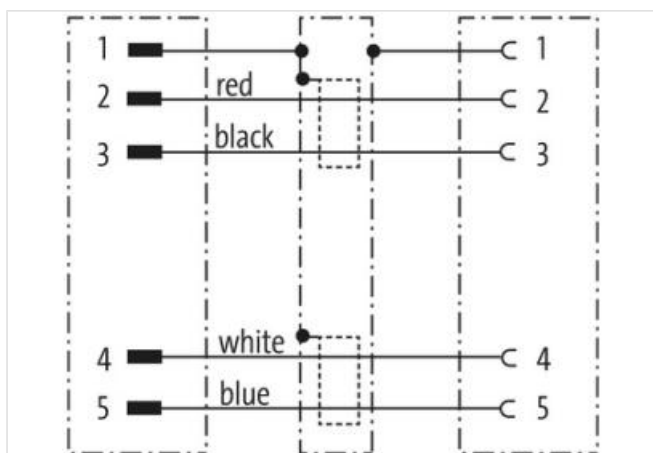
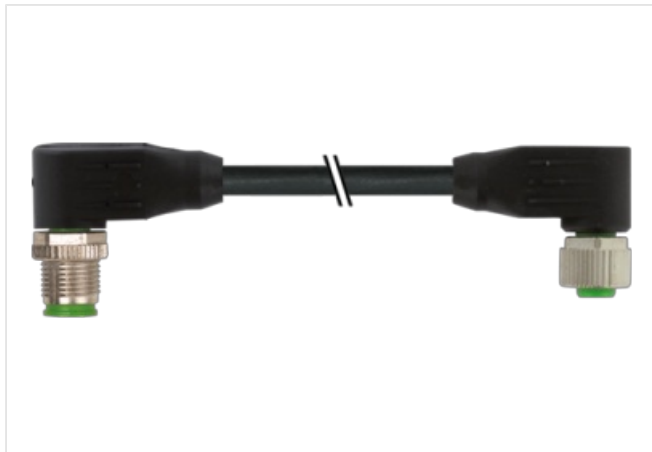
M12 – M12, 5-pole

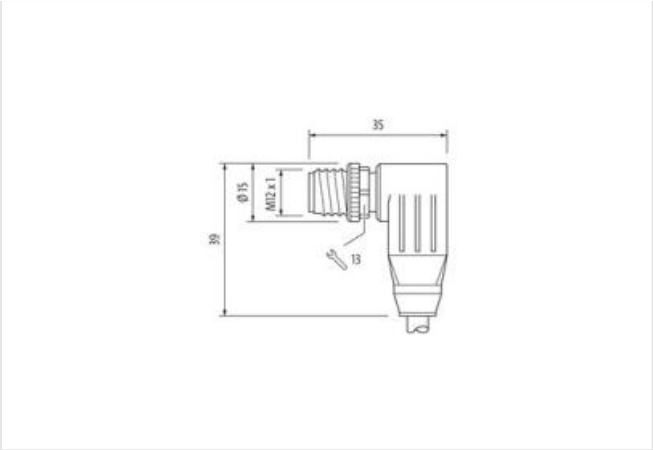
shielded

Plastic housings with good resistance against chemicals and oils.

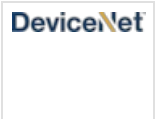
The resistance to aggressive media should be individually tested for your application. Further details on request.

Further cable lengths on request.

[Link to Product](#)**Illustration**



Product may differ from Image



|                                     |                   |
|-------------------------------------|-------------------|
| Cable length                        | 0,5 m             |
| Side 1                              |                   |
| Tightening torque                   | 0,6 Nm            |
| Mounting method                     | inserted, screwed |
| Family construction form            | M12               |
| Thread                              | M12 x 1           |
| Material                            | PUR               |
| Width across flats                  | SW13              |
| Degree of protection (EN IEC 60529) | IP65, IP66K, IP67 |
| Side 2                              |                   |
| Tightening torque                   | 0,6 Nm            |
| Mounting method                     | inserted, screwed |
| Family construction form            | M12               |
| Thread                              | M12 x 1           |
| Material                            | PUR               |
| Width across flats                  | SW13              |
| Commercial data                     |                   |
| ECLASS-6.0                          | 27061801          |
| ECLASS-7.0                          | 27061801          |
| ECLASS-8.0                          | 27061801          |
| ECLASS-9.0                          | 27061801          |
| ECLASS-10.1                         | 27060307          |
| ECLASS-11.1                         | 27060307          |
| ECLASS-12.0                         | 27060307          |
| ETIM-5.0                            | EC001855          |
| customs tariff number               | 85444290          |
| GTIN                                | 4048879845625     |
| Packaging unit                      | 1                 |

| Electrical data   Supply                 |                                                                                                                                                       |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating voltage AC max.                | 60 V                                                                                                                                                  |
| Operating voltage DC max.                | 60 V                                                                                                                                                  |
| Operating voltage AC (UL-listed)         | 30 V                                                                                                                                                  |
| Operating voltage DC (UL-listed)         | 30 V                                                                                                                                                  |
| Current operating per contact max.       | 4 A                                                                                                                                                   |
| Installation   Connection                |                                                                                                                                                       |
| Mounting set                             | M12 x 1                                                                                                                                               |
| Device protection   Electrical           |                                                                                                                                                       |
| Additional condition protection degree   | inserted, screwed                                                                                                                                     |
| Mechanical data   Material data          |                                                                                                                                                       |
| Coating locking                          | Nickeled                                                                                                                                              |
| Coating of fitting                       | nickel plated                                                                                                                                         |
| Locking material                         | Zinc die-casting                                                                                                                                      |
| Material screw connection                | Zinc die-casting                                                                                                                                      |
| Mechanical data   Mounting data          |                                                                                                                                                       |
| Mounting method                          | inserted, screwed, Shaking protection                                                                                                                 |
| Environmental characteristics   Climatic |                                                                                                                                                       |
| Operating temperature min.               | -25 °C                                                                                                                                                |
| Operating temperature max.               | 85 °C                                                                                                                                                 |
| Additional condition temperature range   | depending on cable quality                                                                                                                            |
| Important installation notes             |                                                                                                                                                       |
| Note on strain relief                    | Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.                                                   |
| Note on bending radius                   | <b>Attention:</b> Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. |
| Installation   Cable                     |                                                                                                                                                       |
| wire arrangement                         | (white, blue), (black, red)                                                                                                                           |
| Cable identification                     | 838                                                                                                                                                   |
| Jacket Color                             | black                                                                                                                                                 |
| Type of Certificate                      | cURus                                                                                                                                                 |
| Amount stranding                         | 1                                                                                                                                                     |
| Stranding                                | 2 wires twisted                                                                                                                                       |
| Amount stranding (type 2)                | 1                                                                                                                                                     |
| Stranding (type 2)                       | 2 Stranded joints twisted                                                                                                                             |
| Cable shielding (type)                   | copper braid, tinned                                                                                                                                  |
| Cable shielding (coverage)               | 65 %                                                                                                                                                  |
| Banding                                  | Foil                                                                                                                                                  |
| Drain wire (cross-section)               | 22 AWG                                                                                                                                                |
| wire arrangement                         | (white, blue), (black, red)                                                                                                                           |
| Cable weight                             | 63,12 g/m                                                                                                                                             |
| Material jacket                          | PUR                                                                                                                                                   |
| Shore hardness jacket                    | 90 ± 5 Shore A                                                                                                                                        |
| Freedom from ingredients (jacket)        | lead-free, cadmium-free, CFC-free, halogen-free, silicone-free                                                                                        |
| Outer-diameter (jacket)                  | 6,9 mm                                                                                                                                                |
| Tolerance outer diameter (sheath)        | ± 5 %                                                                                                                                                 |
| Material wire insulation                 | PE                                                                                                                                                    |
| Amount wires                             | 2                                                                                                                                                     |
| Outer diameter insulation                | 2,1 mm                                                                                                                                                |
| Outer diameter tolerance core insulation | ± 5 %                                                                                                                                                 |
| Shore hardness wire insulation           | 64 ± 5 Shore D                                                                                                                                        |
| Ingredient freeness wire insulation      | lead-free, CFC-free, halogen-free                                                                                                                     |
| Amount strands (wire)                    | 19                                                                                                                                                    |

The information in this Product-PDF has been compiled with the utmost care.

Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-06-01

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|                                                 |                                                      |
|-------------------------------------------------|------------------------------------------------------|
| Diameter of single wires                        | 24 AWG                                               |
| Conductor crosssection (wire)                   | 24 AWG                                               |
| Drain wire (cross-section)                      | 22 AWG                                               |
| Material conductor wire                         | copper stranded wire, tinned                         |
| Electrical function wire                        | Data                                                 |
| Material wire insulation (Data)                 | PE                                                   |
| Outer diameter wire insulation (Data)           | 1,5 mm                                               |
| Tolerance outer diameter wire insulation (data) | ± 53 %                                               |
| Ingredient freeness wire insulation (Data)      | lead-free, CFC-free, halogen-free                    |
| Amount wires (Data)                             | 2                                                    |
| Amount strands wire (Data)                      | 19                                                   |
| Diameter of single wires (Data)                 | 22 AWG                                               |
| Conductor crosssection wire (Data)              | 22 AWG                                               |
| Material conductor wire (Data)                  | copper stranded wire, tinned                         |
| Electrical function wire (data)                 | Power                                                |
| Nominal voltage AC max.                         | 300 V                                                |
| Current load capacity (standard)                | to DIN VDE 0298-4                                    |
| Current load capacity min. wire                 | 4,5 A                                                |
| Current load capacity min. Wire (Data)          | 6 A                                                  |
| Electrical function wire                        | Data                                                 |
| Electrical function wire (data)                 | Power                                                |
| Characteristic impedance                        | 120 Ω ± 10 % @ 1 MHz                                 |
| Electrical resistance line constant wire        | 78 Ω/km                                              |
| Electrical resistance coating wire (Data)       | 54 Ω/km                                              |
| AC withstand voltage (wire - wire)              | 2 kV @ 60 s                                          |
| Electric capacitance                            | 40000 pF/km                                          |
| AC withstand voltage (wire - shield)            | 2 kV @ 60 s                                          |
| Min. operating temperature (static)             | -40 °C                                               |
| Max. operating temperature (fixed)              | 80 °C                                                |
| Operating temperature min. (dynamic)            | -30 °C                                               |
| Operating temperature max. (dynamic)            | 70 °C                                                |
| UV resistance                                   | DIN EN ISO 4892-2 A                                  |
| Flame resistance                                | IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2  |
| chemical resistance                             | Good, application-related testing                    |
| Gasoline resistance                             | Good, application-related testing                    |
| Oil resistance                                  | Good, application-related testing   DIN EN 60811-404 |
| Bending radius (installation)                   | x Outer diameter                                     |
| Bending radius (fixed)                          | 6 x Outer diameter                                   |
| Bending radius (dynamic)                        | 10 x Outer diameter                                  |
| No. of bending cycles (C-track)                 | 1 Mio.                                               |
| Traversing distance (C-track)                   | 5 m                                                  |
| Travel speed (C-track)                          | 3 m/s                                                |
| No. of torsion cycles                           | 2 Mio.                                               |
| Torsion stress                                  | ± 30 °/m                                             |
| Torsion speed                                   | 35 cycles/min                                        |