

## M12 male 90° A-cod. with cable shielded

PUR 5x0.34 shielded bk UL/CSA+drag ch. 3m

Male 90° M12, 5-pole shielded A-coded

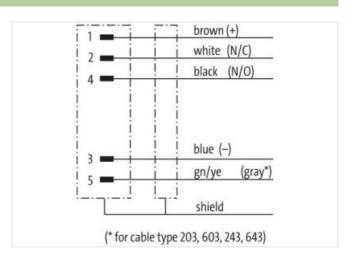
Plastic housings with good resistance against chemicals and oils.

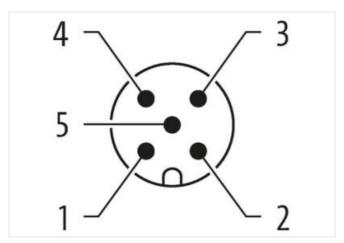
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

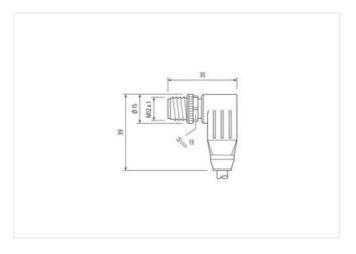
## **Link to Product**

## Illustration









Product may differ from Image













Cable length

3 m

Side 1

Tightening torque

0,6 Nm



| Mounting method                        | inserted, screwed                     |
|--|---------------------------------------|
| Coating contact                        | gold plated                           |
| Family construction form               | M12                                   |
| Thread                                 | M12 x 1                               |
| Coding                                 | A                                     |
| Material contact                       | Copper alloy                          |
| Material                               | PUR                                   |
| Width across flats                     | SW13                                  |
| Degree of protection (EN IEC 60529)    | IP65, IP66K, IP67                     |
| Side 2                                 |                                       |
| Coating contact                        | gold plated                           |
| Commercial data                        |                                       |
| ECLASS-6.0                             | 27279218                              |
| ECLASS-7.0                             | 27279218                              |
| ECLASS-8.0                             | 27279218                              |
| ECLASS-9.0                             | 27060311                              |
| ECLASS-10.1                            | 27060311                              |
| ECLASS-11.1                            | 27060311                              |
| ECLASS-12.0                            | 27060311                              |
| ETIM-5.0                               | EC001855                              |
| customs tariff number                  | 85444290                              |
| GTIN                                   | 4048879832120                         |
| 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                     |
| Pollution Degree                       | 3                                     |
| Rated surge voltage                    | 1,5 kV                                |
| Material group (IEC 60664-1)           | I                                     |
| 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 |
|  |                                       |

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: 2024-04-19

-25 °C 85 °C

depending on cable quality

DIN EN 61076-2-101 (M12)

Environmental characteristics | Climatic

Additional condition temperature range

Operating temperature min.

Operating temperature max.

**Conformity**Product standard

Installation | Cable



## stay connected

| Cable identification                       | 643  |
|--|--|
| Cable Type                                 | 3  |
| Jacket Color                               | black  |
| Type of Certificate                        | cURus  |
| Amount stranding                           | 1  |
| Stranding                                  | 5 wires around Core filler twisted                             |
| Cable shielding (type)                     | copper braid, tinned   |
| Cable shielding (coverage)                 | 80 %   |
| Banding                                    | Fleece, Foil   |
| Filler                                     |  |
|  | yes  |
| wire arrangement                           | brown, black, blue, white, gray                                |
| No. of bending cycles (C-track)            | 5 Mio. @ 25 °C   |
| Cable weigth                               | 57,2 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)                    | 5,6 mm   |
| Tolerance outer diameter (sheath)          | ± 5 %  |
| Material wire insulation                   | PP   |
| Amount wires                               | 5  |
| Outer diameter insulation                  | 1,25 mm  |
| Outer diameter tolerance core insulation   | ± 5 %  |
| Shore hardness wire insulation             | 70 ± 5 Shore D   |
| Ingredient freeness wire insulation        | lead-free, cadmium-free, CFC-free, halogen-free, silicone-free |
| Amount strands (wire)                      | 42   |
| Diameter of single wires                   | 0,1 mm   |
| Conductor crosssection (wire)              | 0,34 mm <sup>2</sup>   |
| Material conductor wire                    | Stranded copper wire, bare                                     |
| Conductor type (wire)                      | strand class 6   |
| Traversing distance (C-track)              | 5 m @ 25 °C   horizontal                                       |
| Current load capacity (standard)           | to DIN VDE 0298-4  |
| Current load capacity min. wire            | 4,5 A  |
| Electrical resistance line constant wire   | 57 Ω/km @ 20 °C  |
| Nominal voltage power AC max.              | 300 V  |
| AC withstand voltage power (wire - shield) | 2 kV @ 60 s  |
| Power frequency withstand voltage power    | 2 kV @ 60 s  |
| (wire - jacket)                            | -  |
| AC withstand voltage power (wire - wire)   | 2 kV @ 60 s  |
| Min. operating temperature (static)        | -40 °C   |
| Max. operating temperature (fixed)         | 80 °C / 90 °C @ 10000 h Operation                              |
| Operating temperature min. (dynamic)       | -25 °C   |
| Operating temperature max. (dynamic)       | 80 °C / 90 °C @ 10000 h Operation                              |
| UV resistance                              | DIN EN ISO 4892-2 A  |
| Flame resistance                           | UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090            |
| chemical resistance                        | Good, application-related testing                              |
| Gasoline resistance                        | Good, application-related testing                              |
| Oil resistance                             | DIN EN 60811-404   Good, application-related testing           |
| Bending radius (fixed)                     | 5 x Outer diameter   |
| Bending radius (dynamic)                   | 10 x Outer diameter  |
| No. of torsion cycles                      | 2 Mio.   |
| Torsion speed                              | 35 cycles/min  |
| Torsion stress                             | ± 30 °/m   |
| 10131011311633                             | ± 50 /III  |