

## M12 male 0° A-cod. / MSUD valve plug CI-9.4mm

PUR 3x0.75 gy UL/CSA+robot+drag ch. 2m

**MSUD** 

Form CI (9.4 mm) - M12, male straight

24 V AC ±20% / DC ±25%

LED and suppression

Further cable lengths on request.

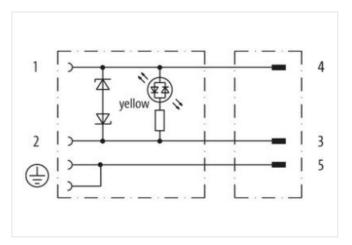
Plastic housings with good resistance against chemicals and oils.

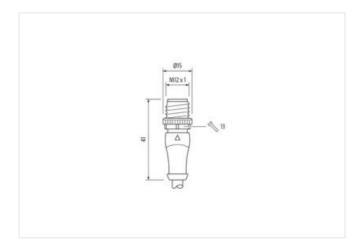
The resistance to aggressive media should be individually tested for your application. Further details on request.

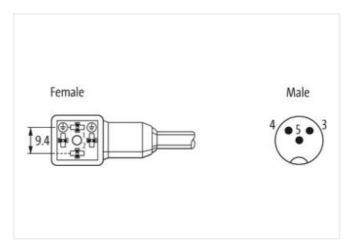
## **Link to Product**

## Illustration











stay connected



Product may differ from Image



| Cable length                              | 2 m           |
|---|---------------|
| Side 1                                    |               |
| Tightening torque                         | 0,4 Nm        |
| Family construction form                  | MSUD CI       |
| Thread                                    | M3            |
| No. of poles                              | 4             |
| Degree of protection (EN IEC 60529)       | IP67          |
| Side 2                                    |               |
| Tightening torque                         | 0,6 Nm        |
| Family construction form                  | M12           |
| Thread                                    | M12 x 1       |
| suitable for corrugated tube (internal Ø) | 10 mm         |
| Coding                                    | A             |
| No. of poles                              | 3             |
| Width across flats                        | SW13          |
| Degree of protection (EN IEC 60529)       | IP67          |
| Commercial data                           |               |
| ECLASS-6.0                                | 27279218      |
| ECLASS-6.1                                | 27279218      |
| ECLASS-7.0                                | 27279218      |
| ECLASS-8.0                                | 27279218      |
| ECLASS-9.0                                | 27060312      |
| ECLASS-10.1                               | 27060312      |
| ECLASS-11.1                               | 27060312      |
| ECLASS-12.0                               | 27060312      |
| ETIM-5.0                                  | EC001855      |
| customs tariff number                     | 85444290      |
| GTIN                                      | 4048879146821 |
| Packaging unit                            | 1             |
| Electrical data                           |               |
| Capacity CX                               | 20 ms         |
| Electrical data   Supply                  |               |



stay connected

| Operating voltage AC  | 24 V  |
|---|---|
|   | 19,2 V  |
| Operating voltage AC min.  Operating voltage AC max.  |   |
| Operating voltage DC  | 28,8 V<br>24 V  |
|   | 18 V  |
| Operating voltage DC min.   | 30 V  |
| Operating voltage DC max.   | 55 V  |
| Current operating per contact max.  | 4 A   |
|   | 48  |
| Diagnostics   |   |
| Status indication LED   | yellow  |
| Device protection   Electrical  |   |
| Additional condition protection degree  | inserted, screwed   |
| Pollution Degree  | 3   |
| Rated surge voltage   | 0,8 kV  |
| Mechanical data   Material data   |   |
| Color housing   | black   |
| Material housing  | Plastic   |
| Mechanical data   Mounting data   |   |
| Mounting method   | inserted, screwed   |
| Environmental characteristics   Climatic  |   |
|   | 25 °C   |
| 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.   |
| Conformity  |   |
| Product standard  | DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilstecker)   |
| Installation   Cable  |   |
| Cable identification  | 256   |
| Cable Type  | 5   |
| Printing color of wire insulation   | white (isolation black)   |
| Jacket Color  | ,   |
|   | gray  |
|   | gray<br>cURus   |
| Type of Certificate   |   |
|   | cURus   |
| Type of Certificate  Amount stranding   | cURus<br>1  |
| Type of Certificate  Amount stranding  Stranding  | cURus 1 3 wires twisted   |
| Type of Certificate  Amount stranding  Stranding  wire arrangement  | cURus  1 3 wires twisted black 1, black 2, green-yellow   |
| Type of Certificate  Amount stranding  Stranding  wire arrangement  Traversing distance (C-track)   | cURus  1 3 wires twisted black 1, black 2, green-yellow 5 m @ 25 °C   horizontal  |
| Type of Certificate  Amount stranding  Stranding  wire arrangement  Traversing distance (C-track)  Cable weigth   | cURus  1 3 wires twisted  black 1, black 2, green-yellow  5 m @ 25 °C   horizontal  48,4 g/m  |
| Type of Certificate  Amount stranding  Stranding  wire arrangement  Traversing distance (C-track)  Cable weigth  Material jacket  | cURus  1 3 wires twisted black 1, black 2, green-yellow 5 m @ 25 °C   horizontal 48,4 g/m PUR   |
| Type of Certificate  Amount stranding  Stranding  wire arrangement  Traversing distance (C-track)  Cable weigth  Material jacket  Shore hardness jacket   | cURus  1 3 wires twisted black 1, black 2, green-yellow  5 m @ 25 °C   horizontal  48,4 g/m  PUR  58 ± 3 Shore D  |
| Type of Certificate  Amount stranding  Stranding  wire arrangement  Traversing distance (C-track)  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)  | cURus  1 3 wires twisted  black 1, black 2, green-yellow  5 m @ 25 °C   horizontal  48,4 g/m  PUR  58 ± 3 Shore D  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free                                     |
| Type of Certificate  Amount stranding  Stranding  wire arrangement  Traversing distance (C-track)  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)  Outer-diameter (jacket)   | cURus  1 3 wires twisted  black 1, black 2, green-yellow  5 m @ 25 °C   horizontal  48,4 g/m  PUR  58 ± 3 Shore D  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  5,2 mm                             |
| Type of Certificate  Amount stranding  Stranding  wire arrangement  Traversing distance (C-track)  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)  Outer-diameter (jacket)  Tolerance outer diameter (sheath)  | cURus  1 3 wires twisted  black 1, black 2, green-yellow  5 m @ 25 °C   horizontal  48,4 g/m  PUR  58 ± 3 Shore D  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  5,2 mm  ± 5 %                      |
| Type of Certificate  Amount stranding  Stranding  wire arrangement  Traversing distance (C-track)  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)  Outer-diameter (jacket)  Tolerance outer diameter (sheath)  Material wire insulation  | cURus  1 3 wires twisted black 1, black 2, green-yellow  5 m @ 25 °C   horizontal  48,4 g/m  PUR  58 ± 3 Shore D  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  5,2 mm  ± 5 %  PP                   |
| Type of Certificate  Amount stranding  Stranding  wire arrangement  Traversing distance (C-track)  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)  Outer-diameter (jacket)  Tolerance outer diameter (sheath)  Material wire insulation  Amount wires  | cURus  1 3 wires twisted  black 1, black 2, green-yellow  5 m @ 25 °C   horizontal  48,4 g/m  PUR  58 ± 3 Shore D  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  5,2 mm  ± 5 %  PP                  |
| Type of Certificate  Amount stranding  Stranding  wire arrangement  Traversing distance (C-track)  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)  Outer-diameter (jacket)  Tolerance outer diameter (sheath)  Material wire insulation  Amount wires  Outer diameter insulation   | cURus  1 3 wires twisted  black 1, black 2, green-yellow  5 m @ 25 °C   horizontal  48,4 g/m  PUR  58 ± 3 Shore D  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  5,2 mm  ± 5 %  PP  3  1,7 mm       |
| Type of Certificate  Amount stranding  Stranding  wire arrangement  Traversing distance (C-track)  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)  Outer-diameter (jacket)  Tolerance outer diameter (sheath)  Material wire insulation  Amount wires  Outer diameter insulation  Outer diameter tolerance core insulation | cURus  1 3 wires twisted  black 1, black 2, green-yellow  5 m @ 25 °C   horizontal  48,4 g/m  PUR  58 ± 3 Shore D  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  5,2 mm  ± 5 %  PP  3 1,7 mm  ± 5 % |

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: 2024-05-11



| Printing color of wire insulation                 | white (isolation black)                              |
|---|--|
| Amount strands (wire)                             | 42   |
| Diameter of single wires                          | 0,15 mm  |
| Conductor crosssection (wire)                     | 0,75 mm²   |
| Material conductor wire                           | Stranded copper wire, bare                           |
| Conductor type (wire)                             | strand class 6                                       |
| Nominal voltage AC max.                           | 300 V  |
| Current load capacity (standard)                  | to DIN VDE 0298-4                                    |
| Current load capacity min. wire                   | 12 A   |
| Electrical resistance line constant wire          | 26 Ω/km @ 20 °C                                      |
| AC withstand voltage (wire - wire)                | 2,5 kV @ 60 s  |
| Power frequency withstand voltage (wire - jacket) | 2,5 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                    |
| 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                                    | Good, application-related testing   DIN EN 60811-404 |
| Bending radius (fixed)                            | 5 x Outer diameter                                   |
| Bending radius (dynamic)                          | 10 x Outer diameter                                  |
| Travel speed (C-track)                            | 10 Mio. @ 25 °C                                      |
| No. of torsion cycles                             | 1 Mio.   |
| Torsion stress                                    | ± 360 °/m  |
| Torsion speed                                     | 35 cycles/min  |