

## M12 male 0° A-cod. / MSUD valve plug A-18mm

PVC 3x0.75 gy 18m

Form A (18 mm) - M12, male straight 24 V AC ±20% / DC ±25% LED and suppression Bridged PE A-coded

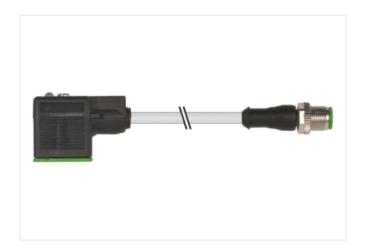
Further cable lengths on request.

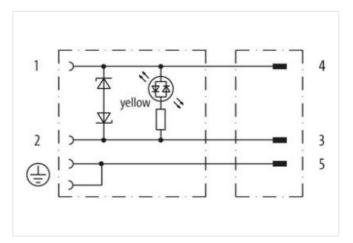
Plastic housings with good resistance against chemicals and oils.

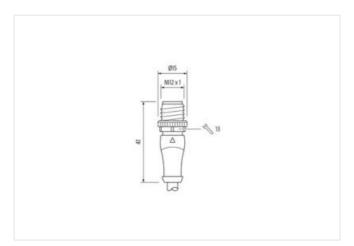
The resistance to aggressive media should be individually tested for your application. Further details on request.

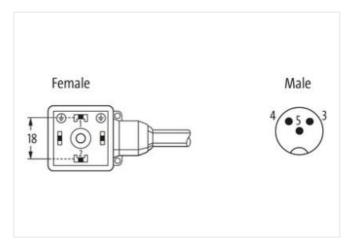
## **Link to Product**

## Illustration











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Product may differ from Image







| Cable length                              | 18 m          |
|---|---------------|
| Side 1                                    |               |
| Tightening torque                         | 0,4 Nm        |
| Family construction form                  | M12           |
| Thread                                    | M3            |
| suitable for corrugated tube (internal Ø) | 10 mm         |
| Material                                  | PUR           |
| Width across flats                        | SW13          |
| Degree of protection (EN IEC 60529)       | IP67          |
| Side 2                                    |               |
| Tightening torque                         | 0,6 Nm        |
| Thread                                    | M12 x 1       |
| Material                                  | PBT           |
| Degree of protection (EN IEC 60529)       | IP67          |
| Commercial data                           |               |
| ECLASS-6.0                                | 27279218      |
| ECLASS-7.0                                | 27279218      |
| ECLASS-8.0                                | 27279218      |
| ECLASS-9.0                                | 27060311      |
| ECLASS-10.1                               | 27060312      |
| ECLASS-11.1                               | 27060312      |
| ECLASS-12.0                               | 27060312      |
| ETIM-5.0                                  | EC001855      |
| customs tariff number                     | 85444290      |
| GTIN                                      | 4048879580618 |
| Packaging unit                            | 1             |
| Electrical data                           |               |
| Drop-out delay time max.                  | 20 ms         |
| Electrical data   Supply                  |               |
| Operating voltage AC                      | 24 V          |
| Operating voltage AC min.                 | 19,2 V        |
| Operating voltage AC max.                 | 28,8 V        |

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| Operating voltage DC  | 24 V   |
|---|--|
| Operating voltage DC min.   | 18 V   |
| Operating voltage DC max.   | 30 V   |
| Cut-off peak voltage max.   | 55 V   |
| Current operating per contact max.  | 4 A  |
| Current consumption max.  | 15 mA  |
| <u> </u>  | 13 IIIA  |
| Diagnostics   |  |
| Status indication LED   | yellow   |
| Device protection   Electrical  |  |
| Additional condition protection degree  | inserted, screwed  |
| Pollution Degree  | 3  |
| Rated surge voltage   | 0,8 kV   |
| Material group (IEC 60664-1)  | 1  |
| Mechanical data   Material data   |  |
| Coating locking   | Nickeled   |
| Color housing   | black  |
| Material gasket   | PUR  |
| Material housing  | Plastic  |
| Locking material  | Zinc die-casting   |
| Mechanical data   Mounting data   | Ento dio dadung  |
| Mounting method   | inserted, screwed  |
| Environmental characteristics   Climatic  | <u> </u>   |
| Operating temperature min.  | -25 °C   |
|   | 85 °C  |
| Operating temperature max.  Additional condition temperature range  | depending on cable quality   |
|   | 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  | black 1, black 2, green-yellow   |
| Cable identification  | 216  |
|   | 210  |
| Cable Type  | 1  |
| Cable Type Printing color of wire insulation  |  |
|   | 1  |
| Printing color of wire insulation   | 1 white (isolation black)  |
| Printing color of wire insulation  Jacket Color   | 1 white (isolation black) gray   |
| Printing color of wire insulation  Jacket Color  Amount stranding   | 1 white (isolation black) gray 1   |
| Printing color of wire insulation  Jacket Color  Amount stranding  Stranding  | 1 white (isolation black) gray 1 3 wires twisted   |
| Printing color of wire insulation  Jacket Color  Amount stranding  Stranding  wire arrangement  | 1 white (isolation black) gray 1 3 wires twisted black 1, black 2, green-yellow  |
| Printing color of wire insulation  Jacket Color  Amount stranding  Stranding  wire arrangement  Cable weigth  | 1 white (isolation black) gray 1 3 wires twisted black 1, black 2, green-yellow 63,8 g/m   |
| Printing color of wire insulation Jacket Color Amount stranding Stranding wire arrangement Cable weigth Material jacket   | 1 white (isolation black) gray 1 3 wires twisted black 1, black 2, green-yellow 63,8 g/m PVC   |
| Printing color of wire insulation Jacket Color Amount stranding Stranding wire arrangement Cable weigth Material jacket Shore hardness jacket   | 1 white (isolation black) gray 1 3 wires twisted black 1, black 2, green-yellow 63,8 g/m PVC 80 ± 5 Shore A  |
| Printing color of wire insulation Jacket Color Amount stranding Stranding wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket)   | 1 white (isolation black) gray  1 3 wires twisted black 1, black 2, green-yellow 63,8 g/m PVC 80 ± 5 Shore A lead-free, cadmium-free, CFC-free, silicone-free  |
| Printing color of wire insulation Jacket Color Amount stranding Stranding wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket)   | 1 white (isolation black) gray  1 3 wires twisted black 1, black 2, green-yellow 63,8 g/m PVC 80 ± 5 Shore A lead-free, cadmium-free, CFC-free, silicone-free 5,9 mm   |
| Printing color of wire insulation  Jacket Color  Amount stranding  Stranding  wire arrangement  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)  Outer-diameter (jacket)  Tolerance outer diameter (sheath)   | 1 white (isolation black) gray  1 3 wires twisted black 1, black 2, green-yellow 63,8 g/m PVC 80 ± 5 Shore A lead-free, cadmium-free, CFC-free, silicone-free 5,9 mm ± 5 %   |
| Printing color of wire insulation Jacket Color Amount stranding Stranding wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation  | 1 white (isolation black) gray  1 3 wires twisted black 1, black 2, green-yellow 63,8 g/m PVC 80 ± 5 Shore A lead-free, cadmium-free, CFC-free, silicone-free 5,9 mm ± 5 % PVC   |
| Printing color of wire insulation  Jacket Color  Amount stranding  Stranding  wire arrangement  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)  Outer-diameter (jacket)  Tolerance outer diameter (sheath)  Material wire insulation  Amount wires   | white (isolation black) gray  1 3 wires twisted black 1, black 2, green-yellow 63,8 g/m  PVC 80 ± 5 Shore A lead-free, cadmium-free, CFC-free, silicone-free 5,9 mm ± 5 %  PVC 3   |
| Printing color of wire insulation  Jacket Color  Amount stranding  Stranding  wire arrangement  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  | 1 white (isolation black) gray  1 3 wires twisted black 1, black 2, green-yellow 63,8 g/m PVC 80 ± 5 Shore A lead-free, cadmium-free, CFC-free, silicone-free 5,9 mm ± 5 % PVC 3 1,8 mm  |
| Printing color of wire insulation  Jacket Color  Amount stranding  Stranding  wire arrangement  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  | white (isolation black) gray  1 3 wires twisted black 1, black 2, green-yellow 63,8 g/m PVC 80 ± 5 Shore A lead-free, cadmium-free, CFC-free, silicone-free 5,9 mm ± 5 % PVC 3 1,8 mm ± 5 %                                    |
| Printing color of wire insulation  Jacket Color  Amount stranding  Stranding  wire arrangement  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  Shore hardness wire insulation                                      | white (isolation black) gray  1 3 wires twisted black 1, black 2, green-yellow 63,8 g/m PVC 80 ± 5 Shore A lead-free, cadmium-free, CFC-free, silicone-free 5,9 mm ± 5 % PVC 3 1,8 mm ± 5 % 43 ± 5 Shore D                     |
| Printing color of wire insulation  Jacket Color  Amount stranding  Stranding  wire arrangement  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  Shore hardness wire insulation  Material properties wire insulation | 1 white (isolation black) gray 1 3 wires twisted black 1, black 2, green-yellow 63,8 g/m PVC 80 ± 5 Shore A lead-free, cadmium-free, CFC-free, silicone-free 5,9 mm ± 5 % PVC 3 1,8 mm ± 5 % 43 ± 5 Shore D good machinability |

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| Amount strands (wire)                             | 24   |
|---|--|
| Diameter of single wires                          | 0,2 mm   |
| Conductor crosssection (wire)                     | 0,75 mm <sup>2</sup>                                 |
| Material conductor wire                           | Stranded copper wire, bare                           |
| Conductor type (wire)                             | Strand class 5                                       |
| Max. rated voltage (conductor - conductor)        | 500 V  |
| Max. rated voltage (conductor - ground)           | 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)                | 3 kV @ 60 s  |
| Power frequency withstand voltage (wire - jacket) | 3 kV @ 60 s  |
| Min. operating temperature (static)               | -30 °C   |
| Max. operating temperature (fixed)                | 70 °C  |
| Operating temperature min. (dynamic)              | -5 °C  |
| Operating temperature max. (dynamic)              | 70 °C  |
| Flame resistance                                  | UL 1581 § 1090   IEC 60332-2-2   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 (fixed)                            | 5 x Outer diameter                                   |
| Bending radius (dynamic)                          | 10 x Outer diameter                                  |