

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

PUR 8x0.25 shielded bk UL/CSA+drag ch. 10m

Female 90° M12, 8-pole shielded

with cable sleeves

Plastic housings with good resistance against chemicals and oils.

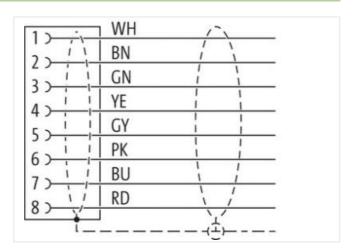
The resistance to aggressive media should be individually tested for your application. Further details on request.

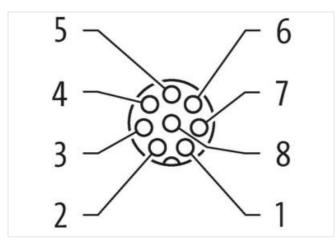
Further cable lengths on request.

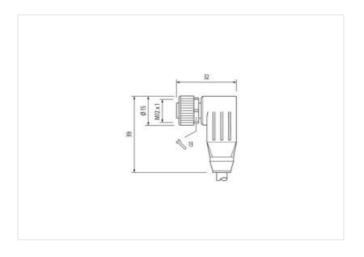
## **Link to Product**

## Illustration









Product may differ from Image











Cable length

10 m

Side 1

Tightening torque

0,6 Nm

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: 2024-05-04



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 Commercial data ECLASS-6.0 27279218 ECLASS-7.0 27279218 ECLASS-8.0 27279218 27060311 ECLASS-9.0 ECLASS-10.1 27060311 27060311 ECLASS-11.1 ECLASS-12.0 27060311 ETIM-5.0 EC001855 85444290 customs tariff number GTIN 4048879337281 Packaging unit Electrical data | Supply Operating voltage AC max. 30 V Operating voltage DC max. 30 V Operating voltage AC (UL-listed) 30 V 30 V Operating voltage DC (UL-listed) Current operating per contact max. 2 A Installation | Connection M12 x 1 Mounting set Device protection | Electrical Additional condition protection degree inserted, screwed Pollution Degree 3 Rated surge voltage 0,8 kV Material group (IEC 60664-1) 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 inserted, screwed, Shaking protection Mounting method Environmental characteristics | Climatic -25 °C Operating temperature min. 85 °C Operating temperature max. 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. Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be Note on bending radius endangered by excessive bending forces.

Conformity

Product standard

Installation | Cable

Cable identification

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717

DIN EN 61076-2-101 (M12)



## stay connected

Jacket Color black Type of Certificate cURus Amount stranding 1 Stranding 8 wires around Core filler twisted Cable shielding (type) copper braid, tinned Cable shielding (coverage) 80 % Banding Fleece, Foil Filler yes wire arrangement brown, white, red, blue, pink, gray, yellow, green Traversing distance (C-track) 5 m @ 25 *C  horizontal Cable weight 66 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) 7 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 8 Outer diameter tolerance core insulation Unter diameter tolerance core insulation Shore hardness wire insulation 1,2 mm Outer diameter tolerance core insulation Shore hardness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Amount strands (wire) 32 Diameter of single wires 0,1 mm Conductor crosssection (wire) 0,25 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 (standard) to DIN VDE 0298-4 Current load capacity (standard) 2 kV @ 60 s	
Amount stranding 1 Stranding 8 wires around Core filler twisted Cable shielding (type) copper braid, tinned Cable shielding (coverage) 80 % Banding Fleece, Foil Filler yes wire arrangement brown, white, red, blue, pink, gray, yellow, green Traversing distance (C-track) 5 m @ 25 °C   horizontal Cable weigth 66 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) 7 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 8 Amount wires 8 Shore hardness wire insulation 1,2 mm Outer diameter tolerance core insulation 5 ± 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) 32 Diameter of single wires 0,1 mm Conductor crosssection (wire) 0,25 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 (wire wire) 2 kV @ 60 s Power frequency withstand voltage (wire - very company of the proper with stand voltage (wire - very company of the proper with stand voltage (wire - very company of the proper with stand voltage (wire - very company of the proper with stand voltage (wire - very company of the proper with stand voltage (wire - very company of the proper with stand voltage (wire - very company of the proper with stand voltage (wire - very company of the proper with stand voltage (wire - very company of the proper with stand voltage (wire - very company of the proper with stand voltage (wire - very company of the proper with stand voltage (wire - very company of the proper with stand voltage (wire - very company of the proper with stand voltage (wire - very compa	-
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Cable shielding (coverage)       80 %         Banding       Fleece, Foil         Filler       yes         wire arrangement       brown, white, red, blue, pink, gray, yellow, green         Traversing distance (C-track)       5 m @ 25 °C   horizontal         Cable weigth       66 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)       7 mm         Tolerance outer diameter (sheath)       ± 5 %         Material wire insulation       PP         Amount wires       8         Outer diameter insulation       1,2 mm         Outer diameter insulation       70 ± 5 Shore D         Ingredient freeness wire insulation       70 ± 5 Shore D         Ingredient freeness wire insulation       lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         Amount strands (wire)       32         Diameter of single wires       0,1 mm         Conductor viewes       0,25 mm²         Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       stranded copper wire, bare         Outer fload capacity (standard)       to DIN VD	
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Banding         Fleece, Foil           Filler         yes           wire arrangement         brown, white, red, blue, pink, gray, yellow, green           Traversing distance (C-track)         5 m @ 25 °C   horizontal           Cable weigth         66 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)         7 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         8           Outer diameter insulation         1,2 mm           Outer diameter insulation         1,2 mm           Outer diameter insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         32           Diameter of single wires         0,1 mm           Conductor rosssection (wire)         0,25 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Nominal voltage AC max.         300 V	
wire arrangement brown, white, red, blue, pink, gray, yellow, green  Traversing distance (C-track) 5 m @ 25 °C   horizontal  66 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) 7 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 8  Outer diameter insulation 1,2 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) 32  Diameter of single wires 0,1 mm  Conductor crosssection (wire) 0,25 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 3 A  Electrical resistance line constant wire 79 Ω/km @ 20 °C  AC withstand voltage (wire - wire) 2 kV @ 60 s  Power frequency withstand voltage (wire - vire) 2 kV @ 60 s	
Traversing distance (C-track)  5 m @ 25 °C   horizontal  Cable weigth  66 g/m  Material jacket  PUR  Shore hardness jacket  90 ± 5 Shore A  Freedom from ingredients (jacket)  Outer-diameter (jacket)  7 mm  Tolerance outer diameter (sheath)  ± 5 %  Material wire insulation  PP  Amount wires  8  Outer diameter tolerance core insulation  1,2 mm  Outer diameter tolerance core insulation  7 ± 5 Shore D  Ingredient freeness wire insulation  Ingredient freeness wire insulation  Pamount strands (wire)  32  Diameter of single wires  0,1 mm  Conductor crosssection (wire)  0,25 mm²  Material conductor wire  Stranded copper wire, bare  Conductor type (wire)  Normal voltage AC max.  300 V  Current load capacity (standard)  to DIN VDE 0298-4  Current load capacity min. wire  3 kW @ 60 s  Power frequency withstand voltage (wire - 2 kW @ 60 s  Power frequency withstand voltage (wire - 2 kW @ 60 s	
Cable weight 66 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) 7 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 8  Outer diameter insulation 1,2 mm  Outer diameter tolerance core insulation 1,2 mm  Outer diameter tolerance core insulation 70 ± 5 Shore D  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Amount strands (wire) 32  Diameter of single wires 0,1 mm  Conductor crosssection (wire) 0,25 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 3 A  Electrical resistance line constant wire 79 Ω/km @ 20 °C  AC withstand voltage (wire - wire) 2 kV @ 60 s  Power frequency withstand voltage (wire - 2 kV @ 60 s	
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)     7 mm       Tolerance outer diameter (sheath)     ± 5 %       Material wire insulation     PP       Amount wires     8       Outer diameter insulation     1,2 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)     32       Diameter of single wires     0,1 mm       Conductor crosssection (wire)     0,25 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     3 A       Electrical resistance line constant wire     79 Ω/km @ 20 °C       AC withstand voltage (wire - wire)     2 kV @ 60 s       Power frequency withstand voltage (wire - wire)     2 kV @ 60 s	
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Freedom from ingredients (jacket)  Duter-diameter (jacket)  7 mm  Tolerance outer diameter (sheath)  ± 5 %  Material wire insulation  PP  Amount wires  8  Outer diameter insulation  1,2 mm  Outer diameter tolerance core insulation  5 %  Shore hardness wire insulation  Po ± 5 Shore D  Ingredient freeness wire insulation  Ingredient freeness wire insulation  For hardness wire insulation  For har	
Outer-diameter (jacket)       7 mm         Tolerance outer diameter (sheath)       ± 5 %         Material wire insulation       PP         Amount wires       8         Outer diameter insulation       1,2 mm         Outer diameter tolerance core insulation       ± 5 %         Shore hardness wire insulation       lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         Amount strands (wire)       32         Diameter of single wires       0,1 mm         Conductor crosssection (wire)       0,25 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       3 A         Electrical resistance line constant wire       79 Ω/km @ 20 °C         AC withstand voltage (wire - wire)       2 kV @ 60 s         Power frequency withstand voltage (wire -       2 kV @ 60 s	
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Amount wires  Outer diameter insulation  Outer diameter tolerance core insulation  5 hore hardness wire insulation  To ± 5 Shore D  Ingredient freeness wire insulation  Ingredient free, cadmium-free, CFC-free, halogen-free, silicone-free  Ingredient free, cadmium-free, CFC-free, halogen-free, silicone-free  Ingredient freeness wire insulation  Ingredient freeness wire insulation	
Outer diameter insulation       1,2 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)       32         Diameter of single wires       0,1 mm         Conductor crosssection (wire)       0,25 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       3 A         Electrical resistance line constant wire       79 Ω/km @ 20 °C         AC withstand voltage (wire - wire)       2 kV @ 60 s         Power frequency withstand voltage (wire -       2 kV @ 60 s	
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)       32         Diameter of single wires       0,1 mm         Conductor crosssection (wire)       0,25 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       3 A         Electrical resistance line constant wire       79 Ω/km @ 20 °C         AC withstand voltage (wire - wire)       2 kV @ 60 s         Power frequency withstand voltage (wire -       2 kV @ 60 s	
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Conductor crosssection (wire)  Material conductor wire  Stranded copper wire, bare  Conductor type (wire)  strand class 6  Nominal voltage AC max.  300 V  Current load capacity (standard)  Current load capacity min. wire  3 A  Electrical resistance line constant wire  79 Ω/km @ 20 °C  AC withstand voltage (wire - wire)  2 kV @ 60 s	
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       3 A         Electrical resistance line constant wire       79 Ω/km @ 20 °C         AC withstand voltage (wire - wire)       2 kV @ 60 s         Power frequency withstand voltage (wire -       2 kV @ 60 s	
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 3 A  Electrical resistance line constant wire 79 Ω/km @ 20 °C  AC withstand voltage (wire - wire) 2 kV @ 60 s  Power frequency withstand voltage (wire -	
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AC withstand voltage (wire - wire) 2 kV @ 60 s  Power frequency withstand voltage (wire - 2 kV @ 60 s	
Power frequency withstand voltage (wire - 2 kV @ 60 s	
Jacob	
AC withstand voltage (wire - shield) 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 IEC 60332-2-2   UL 1581 § 1100 FT2   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) 5 Mio. @ 25 °C	
No. of torsion cycles 2 Mio.	
Torsion stress ± 30 °/m	
Torsion speed 35 cycles/min	