

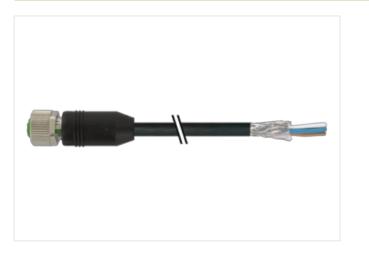
M12 female 0° A-cod. with cable shielded

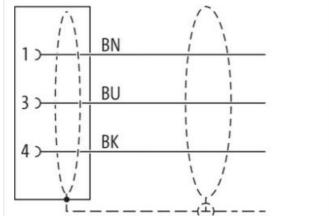
PUR 3x0.34 shielded bk UL/CSA+drag ch. 10m

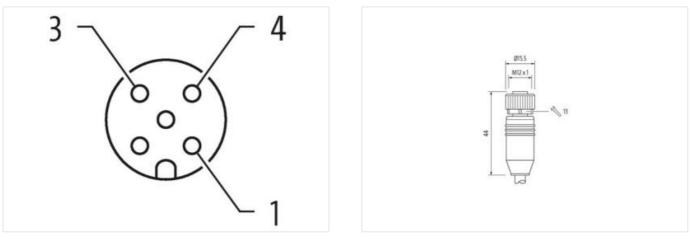
Female straight M12, 3-pole shielded with cable sleeves Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

Link to Product

Illustration







Product may differ from Image



Cable length

Side 1

Tightening torque

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: 2024-05-02

10 m

0,6 Nm

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| Family construction form | M12 |
|--|--|
| Thread | M12 x 1 |
| Coding | A |
| Material | PUR |
| Width across flats | SW13 |
| Degree of protection (EN IEC 60529) | IP65, IP66K, IP67 |
| Commercial data | |
| ECLASS-6.0 | 27279218 |
| ECLASS-6.1 | 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 | 4048879676137 |
| 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) | |
| Mechanical data Material data | · |
| | |
| Coating locking | Nickeled |
| Coating of fitting | nickel plated |
| Locking material | Zinc die-casting Zinc die-casting |
| Material screw connection | |
| 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 | Attention: 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 61076-2-101 (M12) |
| Installation Cable | |

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| Cable Type 0.0^{-1} Cable Type3Jacket ColorblackType of CertificatecLPLosArrount stranding1Stranding9 wires invitatedCable situliting (type)copper trail, timedCable situliting (type)fill (type)Cable situlition1,25 minCable situlition1,25 minCable diameter insulation1,25 min <t< th=""><th>Cable identification</th><th>640</th></t<> | Cable identification | 640 |
|--|--------------------------------------|--|
| Jacket Color black Type of Carlificatie UFRus Amount standing 1 Stranding 3 wires twisted Cable shielding (type) copper braid, tinned Cable shielding (type) Opper Vaid, tinned Cable shielding (type) Opper Vaid, tinned Cable shielding (type) Opper Vaid, tinned Cable weight 44 g/m Material jacket PUR Shore hardness jacket 90 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, allocone-free Outer-diameter (jacket) smm Tolaraco culor diameter (sheath) 1 5 % Material twin insulation PP Amount wires 3 Outer diameter (sheath) 1 25 mm Outer diameter insulation 1 25 mm Outer diameter insulation 1 25 from Tingedient freeness wire insulation 1 25 from D Tander of aligib wires 0.1 mm Conduct or consection (wire) 0.24 free diameter insulation Tasket adingib wires 0.1 mm | | |
| Type of Certificatie cURus Amount stranding 1 Stranding 3 wires twisted Cable shielding (type) copper braid, tinned Cable shielding (coverage) 80 % Banding Fleece, Foil wire arrangement brown, black, blue Cable weight 44 g/m Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) lead-tree, cadmium-free, CFC-free, halogen-free, silicone-free Outer diameter (jacket) 5 mm Toferance outer diameter (jacket) 5 mm Outer diameter insulation PP Amount wires 3 Outer diameter insulation 1,25 mm Outer diameter insulation 1,25 % Ingredient freeness wire insulation 1,25 % Banater of single wires 0,1 mm Conductor wires Stranded copper wire, bare Conductor vires Stranded copper wire, bare Conductor vires Stranded copper wire, bare Conductor vires Stranded copper wire, bare | | |
| Amount stranding 1 Stranding 3 wires twisted Cable shielding (coverage) 60 % Banding Fiesce, Foil wires arrangement brown, black, blue Cable weight 44 g/m Material jacket PUR Shore hardness jackat 90 15 Shore A Freedom from ingredients (jacket) least-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) sm Tolerance outer diameter (sheat) 15 % Material insulation PP Amount wires 3 Outer diameter insulation 1.25 mm Conductor cores insulation 1.5 % Shore hardness wire insulation 1.65 mm Conductor coressection (wire) 0.34 mm? Conductor traves 0.1 nm Conductor traves 0.1 nm Conductor trave Stranded coper vire, bare Conductor trave 0.1 mm? | | |
| Stranding 3 wires twisted Cable selieding (type) copper braid, trinned Cable selieding (coverage) 80 % Barding Fleece, Fol wire arrangement brown, black, blue Cable selieding (coverage) 90 % Barding Fleece, Fol wire arrangement brown, black, blue Cable weight 44 g/m Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) bas-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 5 mm Outer diameter insulation PP Amount wires 3 Outer diameter insulation 1.25 mm Outer diameter insulation 1.25 mm Outer diameter insulation 70 ± 5 Shore D Ingredient Teneses wire insulation 70 ± 5 Shore D Ingredient Teneses wire insulation 1.25 mm Conductor type (wire) Stranded copper wire, bare Conductor type (wire) 0.1 mm Taversing distance C-frees) 50 @ 25 °C) Inorcontal | | |
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| Cable shielding (coverage) 80 % Banding Fleece, Foll wire arrangement brown, black, blue Cable weigth 44 g/m Material jacket PUR Shore hardness jacket! 90 ± 5 Shore A Freedom from ingredients (jacket) tead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer diameter (jacket) ± 5 % Material wire isolation PP Amount wires 3 Outer diameter isolation 1.25 mm Outer diameter loterance core insulation 1.25 mm Outer diameter loterance (wire) 0.41 mm? Material conductor crossescellon (wire) 0.41 mm? Conductor crossescellon (wire) 0.43 mm? <td></td> <td></td> | | |
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| wire arangement brown, black, blue Cable weigth 44 g/m Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) tead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 5 mm Olderance under diameter (sheath) ± 5 % Material wre insulation PP Amount wires 3 Outer diameter insulation 1.25 mm Outer diameter insulation 1.24 mm Ingredient freenees wire insulation 1.24 mm Ganducer or sees wire insulation 1.25 % Shore hardness wire insulation 1.25 % Diameter of single wires 0.1 mm Conductor or sees wire insulation 0.24 mm² Material conductor wire Stranded copper wire, bare Conductor or seesetion (wire) 0.4 | | |
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| Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 5 mm Tolerance outer diameter (jacket) 5 mm Material wire insulation PP Amount wires 3 Outer diameter insulation 1.25 mm Outer diameter tolerance core insulation 1.25 mm Outer diameter tolerance core insulation 1.25 % Shore hardness wire insulation 1.25 % Ingredient freeness wire insulation 1.25 % Context free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 42 Diameter of single wires 0,1 mm Conductor or sossection (wire) 0.34 mm² Outer diapaeter (C-track) 5 m @ 25 °C horizontal Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0296-4 Current load capacity (wire) 2 kV @ 60 s Power frequency withstand voltage (wire - shield) 2 kV @ 60 s Power frequency withstand voltage (wire - shield) 2 kV @ 60 s Act withstand voltage (wire - shield) 2 kV @ 60 s Material benerature (intacki) 60 °C / 90 °C @ 10000 h Op | | |
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| Diameter of single wires 0,1 mm Conductor crosssection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 5 m @ 25 °C horizontal 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 (wire - sire) 2 kV @ 60 s AC withstand voltage (wire - wire) 2 kV @ 60 s Power frequency withstand voltage (wire - jacket) 2 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Qperating temperature (static) -20 °C @ 10000 h Operation Operating temperature (static) -20 °C V v resistance DIN EN ISO 4892-2 A Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance Good, application-related testing | | |
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| Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire6 AElectrical resistance line constant wire57 Ω/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sPower frequency withstand voltage (wire - shield)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceUL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related te | | |
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| 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 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 | AC withstand voltage (wire - shield) | 2 kV @ 60 s |
| 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 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 | 1 3 1 () | |
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| UV resistance DIN EN ISO 4892-2 A Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 | Operating temperature min. (dynamic) | -25 °C |
| Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 | Operating temperature max. (dynamic) | 80 °C / 90 °C @ 10000 h Operation |
| chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 | | |
| Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 | Flame resistance | |
| Oil resistance Good, application-related testing DIN EN 60811-404 | chemical resistance | Good, application-related testing |
| | Gasoline resistance | Good, application-related testing |
| Bending radius (fixed) 5 x Outer diameter | Oil resistance | Good, application-related testing DIN EN 60811-404 |
| | Bending radius (fixed) | 5 x Outer diameter |
| Bending radius (dynamic) 10 x Outer diameter | Bending radius (dynamic) | 10 x Outer diameter |
| No. of bending cycles (C-track) 5 Mio. @ 25 °C | No. of bending cycles (C-track) | 5 Mio. @ 25 °C |
| No. of torsion cycles 2 Mio. | No. of torsion cycles | 2 Mio. |
| Torsion speed 35 cycles/min | Torsion speed | 35 cycles/min |
| Torsion stress ± 30 °/m | Torsion stress | ± 30 °/m |

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: 2024-05-02

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