

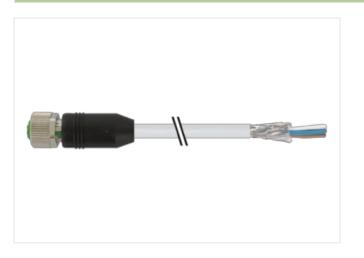
## M12 female 0° A-cod. with cable shielded

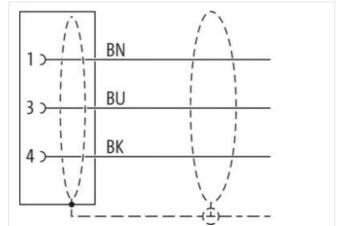
PUR 3x0.34 shielded gy UL/CSA+drag ch. 7.5m

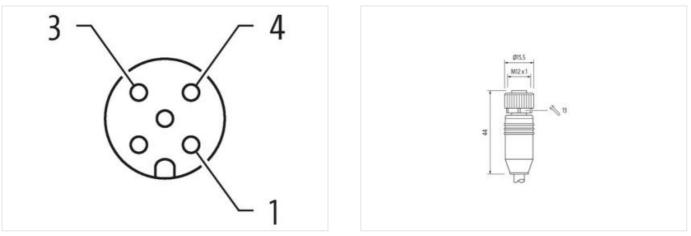
Female straight M12, 3-pole shielded with cable sleeves Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

## Link to Product

Illustration







Product may differ from Image



Cable length

Side 1

Tightening torque

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7,5 m

0,6 Nm

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| CodingAMaterialPUFWidth across flatsSW7Degree of protection (EN IEC 60529)IP65Commercial dataEECLASS-6.02722ECLASS-6.12722ECLASS-6.12722ECLASS-7.02722ECLASS-8.02720ECLASS-9.02700ECLASS-10.12700ECLASS-11.12700ECLASS-12.02700ETIM-5.0ECCCcustoms tariff number8544GTIN4044Packaging unit1Electrical data   Supply0Operating voltage AC max.60 VOperating voltage DC max.60 VOperating voltage DC (UL-listed)30 VDevice protection   Electrical4 AAdditional condition protection degreeinsePollution Degree3Rated surge voltage1,5 1Material group (IEC 60664-1)1Mechanical data   Material dataKickCoating lockingNick | 2 x 1<br>R<br>13<br>5, IP66K, IP67<br>79218<br>79218<br>79218<br>60311<br>60311<br>60311<br>60311<br>60311<br>001855<br>44290<br>8879811590<br>V |
|---|--|
| CodingAMaterialPUFWidth across flatsSW*Degree of protection (EN IEC 60529)IP68Commercial dataEECLASS-6.0272*ECLASS-6.1272*ECLASS-6.1272*ECLASS-7.0272*ECLASS-8.0270*ECLASS-9.0270*ECLASS-10.1270*ECLASS-11.1270*ECLASS-12.0270*ETIM-5.0ECCcustoms tariff number854*GTIN404*Packaging unit1Electrical data   Supply0Operating voltage AC max.60 VOperating voltage DC max.60 VOperating voltage DC (UL-listed)30 VOperating voltage DC (UL-listed)30 VOutrrent operating per contact max.4 AInstallation   ConnectionM12Device protection   Electrical31Additional condition protection degree31Rated surge voltage1,51Material group (IEC 60664-1)1IMechanical data   Material dataCoating lockingNick  | R<br>13<br>5, IP66K, IP67<br>79218<br>79218<br>79218<br>60311<br>60311<br>60311<br>60311<br>60311<br>001855<br>44290<br>8879811590<br>V          |
| MaterialPUFWidth across flatsSWDegree of protection (EN IEC 60529)IP68Commercial data272ECLASS-6.0272ECLASS-6.1272ECLASS-7.0272ECLASS-8.0270ECLASS-9.02700ECLASS-10.12700ECLASS-11.12700ECLASS-12.02700ETIM-5.0ECCcustoms tariff number854GTIN4044Packaging unit1Electrical data   Supply0Operating voltage AC max.60 VOperating voltage DC (UL-listed)30 VOperating voltage DC (UL-listed)30 VCurrent operating per contact max.4 AInstallation   ConnectionM12Additional condition protection degree3Rated surge voltage1,5 IMaterial group (IEC 60664-1)1Mechanical data   Material dataNick   | 13<br>5, IP66K, IP67<br>79218<br>79218<br>79218<br>60311<br>60311<br>60311<br>60311<br>001855<br>44290<br>8879811590<br>V                        |
| Width across flatsSWDegree of protection (EN IEC 60529)IP68Commercial dataECLASS-6.0ECLASS-6.1272ECLASS-6.1272ECLASS-7.0272ECLASS-8.0272ECLASS-9.02700ECLASS-10.12700ECLASS-11.12700ECLASS-12.02700ETIM-5.0ECCcustoms tariff number8544GTIN4044Packaging unit1Electrical data   Supply0Operating voltage AC max.60 VOperating voltage DC max.60 VOperating voltage DC (UL-listed)30 VCurrent operating per contact max.4 AInstallation   ConnectionM12Mounting setM12Additional condition protection degree3Rated surge voltage1,5 IMaterial group (IEC 60664-1)IMechanical data   Material dataNick  | 13<br>5, IP66K, IP67<br>79218<br>79218<br>79218<br>60311<br>60311<br>60311<br>60311<br>001855<br>44290<br>8879811590<br>V                        |
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| Commercial dataECLASS-6.02722ECLASS-6.12722ECLASS-7.02722ECLASS-7.02722ECLASS-8.02700ECLASS-9.02700ECLASS-10.12700ECLASS-11.12700ECLASS-12.02700ETIM-5.0ECCCcustoms tariff number8544GTIN4044Packaging unit1Electrical data   Supply0Operating voltage AC max.60 VOperating voltage DC max.60 VOperating voltage DC (UL-listed)30 VOutrrent operating per contact max.4 AInstallation   ConnectionM12Mounting setM12Device protection   Electrical30 VAdditional condition protection degreeinsePollution Degree3Rated surge voltage1,51Material group (IEC 60664-1)1Mechanical data   Material dataVick  | 779218         779218         779218         60311         60311         60311         60311         60311         60311         8679811590      |
| ECLASS-6.0272ECLASS-6.1272ECLASS-7.0272ECLASS-7.0272ECLASS-8.0270ECLASS-9.02700ECLASS-10.12700ECLASS-11.12700ECLASS-12.02700ETIM-5.0ECCcustoms tariff number854GTIN4044Packaging unit1Electrical data   Supply0Operating voltage AC max.60 VOperating voltage DC max.60 VOperating voltage DC (UL-listed)30 VCurrent operating per contact max.4 AInstallation   ConnectionM12Device protection   Electrical3Additional condition protection degree3Rated surge voltage1,5 IMaterial group (IEC 60664-1)1Mechanical data   Material dataNickCoating lockingNick   | 79218         79218         60311         60311         60311         60311         60311         60311         60311         8879811590         |
| ECLASS-6.1272'ECLASS-7.0272'ECLASS-7.0272'ECLASS-8.0270'ECLASS-9.0270'ECLASS-10.1270'ECLASS-11.1270'ECLASS-12.0270'ETIM-5.0ECC'customs tariff number854'GTIN404'Packaging unit1Electrical data   Supply0Operating voltage AC max.60 VOperating voltage DC max.60 VOperating voltage DC (UL-listed)30 VOperating voltage DC (UL-listed)30 VCurrent operating per contact max.4 AInstallation   ConnectionM12Device protection   Electrical31 VAdditional condition protection degree3Rated surge voltage1,5 IMaterial group (IEC 60664-1)1Mechanical data   Material dataVickCoating lockingNick   | 79218         79218         60311         60311         60311         60311         60311         60311         60311         8879811590         |
| ECLASS-7.0272ECLASS-8.0272ECLASS-9.02700ECLASS-10.12700ECLASS-11.12700ECLASS-12.02700ETIM-5.0ECCcustoms tariff number854GTIN4040Packaging unit1Electrical data   Supply0Operating voltage AC max.60 VOperating voltage DC max.60 VOperating voltage DC (UL-listed)30 VOperating voltage DC (UL-listed)30 VOutrrent operating per contact max.4 AInstallation   ConnectionM12Device protection   Electrical31Additional condition protection degree31Rated surge voltage1,51Material group (IEC 60664-1)1Mechanical data   Material dataVickCoating lockingNick  | 779218<br>779218<br>60311<br>60311<br>60311<br>60311<br>001855<br>44290<br>8879811590<br>V<br>V<br>V<br>V  |
| ECLASS-8.0272'ECLASS-9.0270'ECLASS-10.1270'ECLASS-11.1270'ECLASS-12.0270'ETIM-5.0ECCcustoms tariff number854'GTIN404'Packaging unit1Electrical data   Supply0Operating voltage AC max.60 VOperating voltage DC max.60 VOperating voltage DC (UL-listed)30 VOperating voltage DC (UL-listed)30 VOperating voltage DC (UL-listed)30 VCurrent operating per contact max.4 AInstallation   ConnectionM12Mounting setM12Device protection   Electrical3Additional condition protection degree3Rated surge voltage1,5 IMaterial group (IEC 60664-1)IMechanical data   Material dataKickCoating lockingNick  | 79218<br>60311<br>60311<br>60311<br>60311<br>001855<br>44290<br>8879811590<br>V<br>V<br>V<br>V   |
| ECLASS-9.02700ECLASS-10.12700ECLASS-11.12700ECLASS-12.02700ETIM-5.0ECCcustoms tariff number854GTIN4044Packaging unit1Electrical data   Supply0Operating voltage AC max.60 VOperating voltage DC max.60 VOperating voltage DC (UL-listed)30 VCurrent operating per contact max.4 AInstallation   ConnectionM12Device protection   Electrical3Additional condition protection degree3Rated surge voltage1,5 IMaterial group (IEC 60664-1)IMechanical data   Material dataNick   | 60311<br>60311<br>60311<br>60311<br>001855<br>44290<br>8879811590<br>V<br>V<br>V<br>V  |
| ECLASS-10.12700ECLASS-11.12700ECLASS-12.02700ETIM-5.0ECCcustoms tariff number854.GTIN4044Packaging unit1Electrical data   Supply0Operating voltage AC max.60 VOperating voltage DC max.60 VOperating voltage DC (UL-listed)30 VOperating voltage DC (UL-listed)30 VOperating voltage DC (UL-listed)30 VOperating voltage DC (UL-listed)30 VCurrent operating per contact max.4 AInstallation   Connection1Mounting setM12Device protection   Electrical3Additional condition protection degree3Rated surge voltage1,5 IMaterial group (IEC 60664-1)IMechanical data   Material dataCoating lockingNick1   | 60311<br>60311<br>60311<br>001855<br>44290<br>8879811590<br>V<br>V<br>V<br>V<br>V  |
| ECLASS-11.12700ECLASS-12.02700ETIM-5.0ECCcustoms tariff number854GTIN4044Packaging unit1Electrical data   SupplyOperating voltage AC max.60 VOperating voltage DC max.60 VOperating voltage AC (UL-listed)30 VOperating voltage DC (UL-listed)30 VOperating voltage DC (UL-listed)30 VOperating voltage DC (UL-listed)30 VOperating voltage DC (UL-listed)30 VDevice protection   ElectricalM12Additional condition protection degreeinsePollution Degree3Rated surge voltage1,51Material group (IEC 60664-1)1Mechanical data   Material dataNick   | 60311<br>60311<br>001855<br>44290<br>8879811590<br>V<br>V<br>V<br>V<br>V<br>V  |
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| ETIM-5.0ECOcustoms tariff number854.GTIN4044Packaging unit1Electrical data   SupplyOperating voltage AC max.60 VOperating voltage DC max.60 VOperating voltage DC max.60 VOperating voltage DC (UL-listed)30 VOperating voltage DC (UL-listed)30 VOperating voltage DC (UL-listed)30 VCurrent operating per contact max.4 AInstallation   ConnectionMounting setM12Device protection   ElectricalAdditional condition protection degreeinsePollution Degree3Rated surge voltage1,5 IMaterial group (IEC 60664-1)IMechanical data   Material dataCoating lockingNick   | 2001855<br>44290<br>8879811590<br>V<br>V<br>V<br>V<br>V  |
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| GTIN4044Packaging unit1Electrical data   SupplyOperating voltage AC max.60 VOperating voltage DC max.60 VOperating voltage DC max.60 VOperating voltage DC (UL-listed)30 VOperating voltage DC (UL-listed)30 VCurrent operating per contact max.4 AInstallation   Connection112Mounting setM12Device protection   Electrical3Additional condition protection degree3Rated surge voltage1,5 IMaterial group (IEC 60664-1)IMechanical data   Material dataNick  | 8879811590<br>V<br>V<br>V<br>V<br>V  |
| Packaging unit       1         Electrical data   Supply       0         Operating voltage AC max.       60 V         Operating voltage DC max.       60 V         Operating voltage DC max.       60 V         Operating voltage DC (UL-listed)       30 V         Operating voltage DC (UL-listed)       30 V         Operating voltage DC (UL-listed)       30 V         Current operating per contact max.       4 A         Installation   Connection       M12         Mounting set       M12         Device protection   Electrical       3         Additional condition protection degree       inse         Pollution Degree       3         Rated surge voltage       1,5 I         Material group (IEC 60664-1)       I         Mechanical data   Material data       Vick                          | V<br>V<br>V<br>V<br>V  |
| Electrical data   Supply         Operating voltage AC max.       60 V         Operating voltage DC max.       60 V         Operating voltage DC max.       60 V         Operating voltage AC (UL-listed)       30 V         Operating voltage DC (UL-listed)       30 V         Operating voltage DC (UL-listed)       30 V         Current operating per contact max.       4 A         Installation   Connection       M12         Device protection   Electrical       M12         Additional condition protection degree       inse         Pollution Degree       3         Rated surge voltage       1,5 I         Material group (IEC 60664-1)       I         Mechanical data   Material data       Vick  | V<br>V<br>V  |
| Operating voltage AC max.       60 V         Operating voltage DC max.       60 V         Operating voltage DC (UL-listed)       30 V         Current operating per contact max.       4 A         Installation   Connection       M12         Device protection   Electrical       M12         Additional condition protection degree       inse         Pollution Degree       3         Rated surge voltage       1,5 I         Material group (IEC 60664-1)       I         Mechanical data   Material data       Vick  | V<br>V<br>V  |
| Operating voltage DC max.       60 V         Operating voltage AC (UL-listed)       30 V         Operating voltage DC (UL-listed)       30 V         Operating voltage DC (UL-listed)       30 V         Current operating per contact max.       4 A         Installation   Connection       M12         Device protection   Electrical       M12         Additional condition protection degree       inse         Pollution Degree       3         Rated surge voltage       1,5 I         Material group (IEC 60664-1)       I         Mechanical data   Material data       Nick   | V<br>V<br>V  |
| Operating voltage DC max.       60 V         Operating voltage AC (UL-listed)       30 V         Operating voltage DC (UL-listed)       30 V         Operating voltage DC (UL-listed)       30 V         Current operating per contact max.       4 A         Installation   Connection       M12         Device protection   Electrical       M12         Additional condition protection degree       inse         Pollution Degree       3         Rated surge voltage       1,5 I         Material group (IEC 60664-1)       I         Mechanical data   Material data       Nick   | V<br>V<br>V  |
| Operating voltage AC (UL-listed)       30 V         Operating voltage DC (UL-listed)       30 V         Current operating per contact max.       4 A         Installation   Connection       4         Mounting set       M12         Device protection   Electrical       5         Additional condition protection degree       3         Rated surge voltage       1,5 I         Material group (IEC 60664-1)       I         Mechanical data   Material data       Nick   | V<br>V   |
| Operating voltage DC (UL-listed)       30 V         Current operating per contact max.       4 A         Installation   Connection       M12         Mounting set       M12         Device protection   Electrical       M12         Additional condition protection degree       insee         Pollution Degree       3         Rated surge voltage       1,5 I         Material group (IEC 60664-1)       I         Mechanical data   Material data       Vicket         Coating locking       Nicket   | V  |
| Current operating per contact max.       4 A         Installation   Connection       M12         Mounting set       M12         Device protection   Electrical       M12         Additional condition protection degree       inse         Pollution Degree       3         Rated surge voltage       1,5 I         Material group (IEC 60664-1)       I         Mechanical data   Material data       Nick   |  |
| Installation   Connection         Mounting set       M12         Device protection   Electrical         Additional condition protection degree       inse         Pollution Degree       3         Rated surge voltage       1,5 l         Material group (IEC 60664-1)       I         Mechanical data   Material data       Nick  |  |
| Mounting set       M12         Device protection   Electrical       Insertion         Additional condition protection degree       insertion         Pollution Degree       3         Rated surge voltage       1,5 I         Material group (IEC 60664-1)       I         Mechanical data   Material data       Vick         Coating locking       Nick  |  |
| Device protection   Electrical         Additional condition protection degree         Pollution Degree         Rated surge voltage         1,5 I         Material group (IEC 60664-1)         I         Mechanical data   Material data         Coating locking       Nick  | D4   |
| Additional condition protection degree       inse         Pollution Degree       3         Rated surge voltage       1,5         Material group (IEC 60664-1)       I         Mechanical data   Material data       Coating locking   | 2 X I  |
| Pollution Degree     3       Rated surge voltage     1,5 l       Material group (IEC 60664-1)     l       Mechanical data   Material data     l       Coating locking     Nick  |  |
| Rated surge voltage       1,5 I         Material group (IEC 60664-1)       I         Mechanical data   Material data       I         Coating locking       Nick   | erted, screwed   |
| Material group (IEC 60664-1)       I         Mechanical data   Material data         Coating locking       Nick   |  |
| Mechanical data   Material data           Coating locking         Nick  | kV   |
| Coating locking Nick  |  |
|   |  |
| Coating of fitting nick   | keled  |
|   | tel plated   |
| Locking material Zinc   | c die-casting  |
| Material screw connection Zinc  | c die-casting  |
| Mechanical data   Mounting data   |  |
| Mounting method inse  | erted, screwed, Shaking protection   |
| Environmental characteristics   Climatic  |  |
| •   | •  |
| Operating temperature min25   |  |
| Operating temperature max. 85 °   |  |
|   | ending on cable quality  |
| Important installation notes  |  |
| Note on strain relief Prot  | tect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.   |
|   | ention: Observe the permissible bending radii when laying cables, as the IP protection class can be<br>langered by excessive bending forces.     |
| Conformity  |  |
| Product standard DIN  |  |
| Installation   Cable  | I EN 61076-2-101 (M12)   |

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| Cable identification                              | 240  |
|---|--|
| Cable Type  | 3  |
| Jacket Color                                      | gray   |
| Type of Certificate                               | 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   |
| Traversing distance (C-track)                     | 5 m @ 25 °C   horizontal                                       |
| Cable weigth                                      | 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, silicone-free |
| Outer-diameter (jacket)                           | 5 mm   |
| Tolerance outer diameter (sheath)                 | ±5%  |
| Material wire insulation                          | PP   |
| Amount wires                                      | 3  |
| 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   |
| Nominal voltage AC max.                           | 300 V  |
| Current load capacity (standard)                  | to DIN VDE 0298-4  |
| Current load capacity min. wire                   | 6 A  |
| Electrical resistance line constant wire          | 57 Ω/km @ 20 °C  |
| AC withstand voltage (wire - wire)                | 2 kV @ 60 s  |
| Power frequency withstand voltage (wire - jacket) | 2 kV @ 60 s  |
| 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                              |
| 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                                    | DIN EN 60811-404   Good, application-related testing           |
| 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  |
|   |  |

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