

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

PVC 3x0.34 shielded gy UL/CSA 7.5m

Male 90° M12, 3-pole shielded A-coded

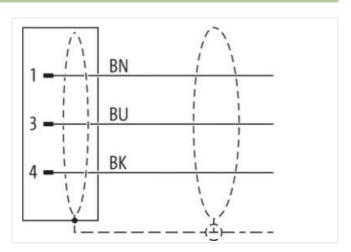
Plastic housings with good resistance against chemicals and oils.

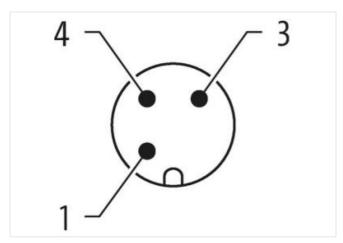
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

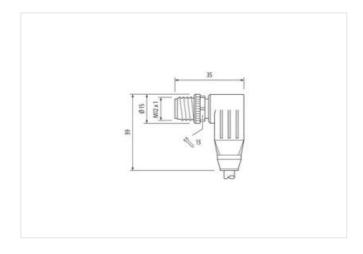
## **Link to Product**

## Illustration









Product may differ from Image









Cable length

7,5 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



stay connected

| Modeling inertical   Modeling inertical   Modeling      | Mounting method                          | inserted several                      |  |
|--|--|---------------------------------------|--|
| Family construction from         M12           Thread         M12 x 1           Coding         A           Material contact         Cooper altry           Material contact         Cooper altry           No. of poles         3           No. of poles         3           Width across files         SW13           Degree of protection (EN IEC 60529)         IPES, IPE6K, IPE7           Side 2         VIII.           Stripping length (gobet)         20 mm           Coating contact         gold plated           Commercial data         Commercial data           Electrical cast supply         VIII.           Electrical cast Supply         VIII.           Operating voilage AC max.         80 V           Operating voilage AC max.         80 V           Operating voilage DC max.         80 V           Operating voilage AC max.         80 V           Diagnostics         Status indication IECD         no           Installation   Connection         No           Stripping length (gobet)         20 mm           Additional posterion   Electrical         M12 x 1           Device protection   Electrical         M2 x 1           Additional posterion   Electrical <t< td=""><td>Mounting method</td><td>inserted, screwed</td></t<>   | Mounting method                          | inserted, screwed                     |  |
| Tresad   |  |                                       |  |
| Coding         A           Material contact         Copy analyy           Material contact         PUR           No. of poles         3           Wordh across flats         SWI3           Degree of protection (EN IEC 60829)         IPES, IPESK, IPES           Side 2           Stripping length (acked)         20 mm           Coulting contact         gold plated           Coulting contact         2706 1801           Coulting contact         8544290           Coulting datal Supply           Operating voltage AC max.         60 V           Current operating per contact max.         4 A           Dispansions           Strate in all colspansions            no            no            no            no            no            Material group (ED         ACKertage (ED            1.5 kW            1.5 kW            1.5 kW <th (e<="" colspansion="" td=""><td></td><td></td></th>  | <td></td> <td></td>                      |                                       |  |
| Material contact         Copper alley           Material         PUR           No. of poles         3           With across flats         SW13           Degree of potection (EN IEC 60529)         IPBS. IPBGK. IPB7           Side 2           Sirige jac length (jacked)         20 mm           Country contact         gold plated           Country contact         gold plated           Country contact         gold plated           Country contact         gold plated           Country contact flats         gold plated           Country contact flats         gold plated           Country contact flats         60 V           Country coparing par contact max.         40 V <td></td> <td></td>   |  |                                       |  |
| Malarial   |  |                                       |  |
| No. ot poles 3 Width across stats 5013 Degree of protection (EN EC 60529) 1P65, IP66K, IP67 Side 2 Stripping length (jacket) 20 mm Casting contact good plated  Commercial data  ECLASS-6.0 27061801 Causdoms lariff number 85444290 Packaging unit 1 Electrical data   Supply  Coperating voltage AC max. 60 V Coperating voltage DC max. 60 V Coperating voltage DC max. 60 V Current operating per contact max. 4 A Device protection   Electrical Market   Supply   Current operating per contact max. 4 A  Device protection   Electrical Market   Supply   Current operating per contact max. 4 A  Device protection   Electrical Market   Supply   Current operating per contact max. 4 A  Device protection   Electrical Market   Supply   Current operating per contact max. 4 A  Device protection   Electrical Market   Supply   Current operating per contact max. 4 A  Device protection   Electrical Market   Supply   Current operating per contact max. 4 A  Device protection   Electrical Market   Supply   Current operating per contact max. 4 A  Device protection   Electrical Market   Supply   Current operating per contact may   Supply   Current operating protection degree   Supply   Current operating protection degree   Supply   Current operating protection degree   Supply   Current operating my   Supply   Current operation   Supply   Current operating my   Supply   Current operatin |  |                                       |  |
| Morting set   Morting      |  |                                       |  |
| Side 2           Stripping length (jacket)         20 mm           Coating central cate         gold plated           Commercial data         ECLASS-6.0         27061801           ECLASS-6.0         27061801         Coating central cate (section 1 plants)           Packaging unit         1         Electrical data   Supply           Operating voltage AC max         60 V         Operating voltage DC max         60 V           Current operating per contact max.         4 A         Diagnostics         Current operating per contact max.         4 A           Stripping length (jacket)         20 mm         Current operating per contact max.         4 A           Diagnostics           Stripping length (jacket)         20 mm           Mounting set         M12 x 1           Diagnostics           Stripping length (jacket)         20 mm           Additional Condition protection degree         M12 x 1           Diagnostics           Stripping length (jacket)         20 mm           Additional Condition protection degree         1,5 kV           Additional Condition protection degree         1,5 kV           Machasaure (jacket)         Nicketod </td <td></td> <td></td>   |  |                                       |  |
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| Coating contact gold plated  Commercial data  ECLASS-8.0 27061801 customs tariff number 8544290  Packaging unit 1  Electrical data   Supply  Operating voltage AC max. 60 V  Operating voltage DC max. 60 V  Current operating per contact max. 4 A  Disgnostics  Status indication LED no  Installation   Connection  Stripping length (jacket) Mil2 1  Device protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage No molecules  Status group (IEC 50664-1) I  Mechanical data   Material data  Coating of titing nicket) Nickeled  Coating of titing nickel plated  Looking material  Material screw connection Zinc die-casting  Mechanical data   Mounting data  Mechanical |  |                                       |  |
| ECLASS-6.0   27061801801   27061801   2706   | Stripping length (jacket)                | 20 mm                                 |  |
| ECLASS-8.0 27061801 customs tariff number 8544290 Packaging unit 1 Electrical data   Supply Operating voltage AC max. 60 V Operating voltage AC max. 60 V Operating voltage DC max. 60 V Operating voltage DC max. 60 V Operating voltage DC max. 60 V  Diagnostics Status indication LED no Installation   Connection Stripping length (jacket) 20 mm Mounting set M12 x 1  Device protection   Electrical Additional condition protection degree inserted, screwed Pollution Degree 3 3 Rated surge voltage 1,5 kV Material group (IEC 60664-1) 1  Mechanical data   Material data Coating locking material Mounting material characteristics   Climatic Ciperating temperature min. 25° C Operating temperature min. 25° C Additional condition lemperature range depending on cable quality Important installation notes Note on bending radius  Attention: Observe the permissible bending radii when laying cables, as the IP protection dass can be endangered by excessive bending forces.  Din End Standard Cable  DIN EN 61078-2-101 (M12) Installation   Cable  Installation   Cable  DIN EN 61078-2-101 (M12) Installation   Cable  Installation   Cable  DIN EN 61078-2-101 (M12) Installation   Cable  Installation   Cable  DIN EN 61078-2-101 (M12) Installation   Cable   | Coating contact                          | gold plated                           |  |
| ECLASS-6.0 27061801 customs tariff number 85444290 Packaging unit 1 Electrical data   Supply Operating voltage AC max. 60 V Operating voltage DC max. 60 V  Diagnostics Status indication LED no no Installation   Connection Stripping length (jacket) 20 mm Mounting set M12 x 1  Device protection   Electrical Additional condition protection degree inserted, screwed Pollution Degree 3 S Rated surge voltage 1,5 kiV Material group (IEC 60664-1) I  Mechanical data   Material data Coating locking material Locking material Locking material Mounting method inserted, screwed, Shaking protection Environmental characteristics   Climatic Ciperating temperature min25 °C Operating temperature min25 °C Additional condition temperature range depending on cable quality Important installation notes Note on bending radius — Attention: Observe the permissible bending radii when laying cables, as the IP protection dass can be endangered by excessive bending forces.  Conformity Product standard DIN EN 61076-2-101 (M12) Installation   Cable  | Commercial data                          |                                       |  |
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| Packaging unit   1  Electrical data   Supply   S |  |                                       |  |
| Electrical data   Supply Operating voltage AC max. 60 V Operating voltage DC max. 60 V Operating voltage DC max. 60 V  Diagnostics Status indication LED no Installation   Connection Stripping length (jacket) 20 mm Mounting set M12 x 1  Device protection   Electrical Additional condition protection degree inserted, screwed Politation Degree 3  Rated surge voltage 1,5 kV Material group (IEC 60664-1) I  Mechanical data   Material data Coating of fitting nickel plated Coating of fitting nickel plated Locking material Zinc die-casting Meterial screw connection Zinc die-casting Mechanical data   Munting data Mounting method inserted, screwed, Shaking protection Environmental characteristics   Climatic Coperating temperature min25 °C Operating temperature max. 85 °C Additional condition temperature range depending on cable quality Important installation notes Note on starin 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.  |  |                                       |  |
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| Current operating per contact max.    Diagnostics  |  |                                       |  |
| Status indication LED no  Installation   Connection  Stripping length (jacket) 20 mm  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) I  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  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °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.  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)  Installation   Cable  |  |                                       |  |
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| 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 60684-1) I  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  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °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.  Conformity  Product standard DIN EN 61076-2-101 (M12)  Installation   Cable  | Installation   Connection                |                                       |  |
| Device protection   Electrical   |  | 20 mm                                 |  |
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| Material group (IEC 60664-1)    Mechanical data   Material data  | Pollution Degree                         | 3                                     |  |
| Mechanical data   Material data  Coating locking   |  | 1,5 kV                                |  |
| Coating locking Nickeled Coating of fitting nickel plated Locking material Zinc die-casting  Material screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °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.  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)  Installation   Cable   | Material group (IEC 60664-1)             | l                                     |  |
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| Material screw connection  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °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)  Installation   Cable  | Coating of fitting                       | nickel plated                         |  |
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| Conformity Product standard DIN EN 61076-2-101 (M12) Installation   Cable  | Note on strain relief                    |                                       |  |
| Product standard DIN EN 61076-2-101 (M12)  Installation   Cable  | Note on bending radius                   |                                       |  |
| Installation   Cable   | Conformity                               |                                       |  |
|  | Product standard                         | DIN EN 61076-2-101 (M12)              |  |
| Cable identification 317   | Installation   Cable                     |                                       |  |
|  | Cable identification                     | 317                                   |  |

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



## stay connected

| Jacket Color                                      | gray   |
|---|--|
| Amount stranding                                  | 1  |
| Stranding   | 3 wires twisted                                      |
| Stranding factor min.                             | 40 mm  |
| Stranding factor max.                             | 40 mm  |
| Cable shielding (type)                            | copper braid, tinned                                 |
| Cable shielding (coverage)                        | 85 %   |
| Banding   | Fleece, Foil   |
| wire arrangement                                  | brown, black, blue                                   |
| Cable weigth                                      | 56,1 g/m   |
| Material jacket                                   | PVC  |
| Shore hardness jacket                             | 80 ± 5 Shore A                                       |
| Freedom from ingredients (jacket)                 | lead-free, cadmium-free, CFC-free, silicone-free     |
| Outer-diameter (jacket)                           | 5,9 mm   |
| Tolerance outer diameter (sheath)                 | ±5%  |
| Material wire insulation                          | PVC  |
| Amount wires                                      | 3  |
| Outer diameter insulation                         | 1,4 mm   |
| Outer diameter tolerance core insulation          | ±5%  |
| Shore hardness wire insulation                    | 90 ± 3 Shore A                                       |
| Ingredient freeness wire insulation               | lead-free, cadmium-free, CFC-free, silicone-free     |
| Amount strands (wire)                             | 19   |
| Diameter of single wires                          | 0,15 mm  |
| Conductor crosssection (wire)                     | 0,34 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                   | 6 A  |
| Electrical resistance line constant wire          | 57 Ω/km @ 20 °C                                      |
| AC withstand voltage (wire - wire)                | 1,5 kV @ 60 s  |
| Power frequency withstand voltage (wire - jacket) | 1,5 kV @ 60 s  |
| AC withstand voltage (wire - shield)              | 1,5 kV @ 60 s  |
| Min. operating temperature (static)               | -40 °C   |
| Max. operating temperature (fixed)                | 80 °C  |
| Operating temperature min. (dynamic)              | -5 ℃   |
| Operating temperature max. (dynamic)              | 80 °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                                    | DIN EN 60811-404   Good, application-related testing |
| Bending radius (fixed)                            | 10 x Outer diameter                                  |
| Bending radius (dynamic)                          | 15 x Outer diameter                                  |