

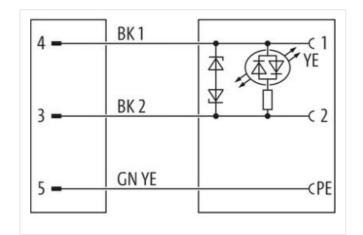
## M12 male 0° A-cod. / MSUD valve plug B-10mm

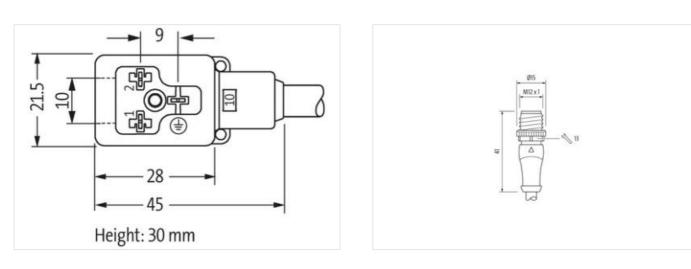
PUR 3x0.75 bk UL/CSA+drag ch. 1m

Form B (10 mm) – M12, male straight 24 V AC ±20% / DC ±25% LED and suppression 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

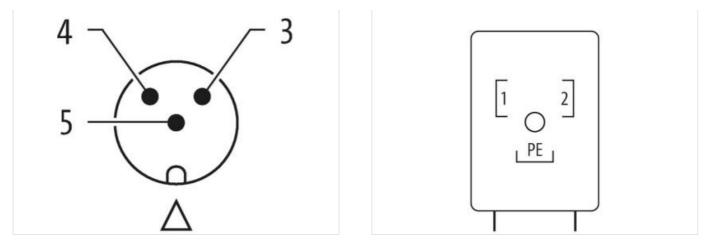






The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-05-15





Product may differ from Image



| Cable length                              | 1 m           |
|---|---------------|
| Side 1                                    |               |
| Tightening torque                         | 0,6 Nm        |
| Family construction form                  | M12           |
| Thread                                    | M12 x 1       |
| suitable for corrugated tube (internal Ø) | 10 mm         |
| Coding                                    | A             |
| No. of poles                              | 3             |
| Width across flats                        | SW13          |
| Degree of protection (EN IEC 60529)       | IP67          |
| Side 2                                    |               |
| Tightening torque                         | 0,4 Nm        |
| Family construction form                  | MSUD B        |
| Thread                                    | M3            |
| No. of poles                              | 3             |
| Degree of protection (EN IEC 60529)       | IP67          |
| Commercial data                           |               |
| ECLASS-6.0                                | 27279218      |
| ECLASS-6.1                                | 27279218      |
| ECLASS-7.0                                | 27279218      |
| ECLASS-8.0                                | 27279218      |
| ECLASS-9.0                                | 27060312      |
| ECLASS-10.1                               | 27060312      |
| ECLASS-11.1                               | 27060312      |
| ECLASS-12.0                               | 27060312      |
| ETIM-5.0                                  | EC001855      |
| customs tariff number                     | 85444290      |
| GTIN                                      | 4048879147552 |
| Packaging unit                            | 1             |
| Electrical data                           |               |
| Capacity CX                               | 20 ms         |
| Electrical data   Supply                  |               |

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| Color housing     black       Material housing     Plastic       Locking material     Zinc die-casting       Mechanical data   Mounting data     inserted, screwed       Environmental characteristics   Climatic     -25 °C       Operating temperature min.     -25 °C       Operating temperature max.     85 °C   | Operating voltage AC                     | 24 V   |
|---|--|--|
| Operating voltage AC ress.       28 V         Operating voltage DC rini.       18 V         Operating voltage DC rini.       18 V         Operating voltage DC rini.       30 V         Control properating per contract rus.       4 A         Deproperating per contract rus.       4 A         Deproperating per contract rus.       4 A         Device properation I Electrical       Velow         Device properation per contract rus.       0.8 NV         Material group (IEC 00064-1)       1         1       Control topological rus.         Addition at control rus rus.       0.8 NV         Material group (IEC 00064-1)       1         Control topological rus.       0.8 NV         Material rus   | Operating voltage AC min.                | 19.2 V   |
| Operating voltage DC       24 V         Operating voltage DC max.       30 V         Christ pask voltage rows.       55 V         Christ pask voltage rows.       54 V         Degensities       4 A         Degensities       Voltage provide proverside proverside provide provide provide proverside provide p |  |  |
| Operating voltage DC min.       19 V         Operating voltage DC max.       30 V         Operating voltage DC max.       55 V         Current operating per context max.       4 A         Deposition       Status indication LED         Status indication LED       yellow         Device protection   Electrical       Additional concilion protection degree         Additional concilion protection degree       0.8 ×         Material group (ED 8064-1)       1         Additional support allog the degree       0.8 ×         Material group (ED 8064-1)       1         Cataly to closing scree works       Z Dodio         Material proup (ED 8064-1)       1         Costing to context degree       Z Dodio         Material housing       Versite         Costing to context degree degree       Z Dodio         Material housing       Versite         Color housing       Weach         Material housing       Versite         Color housing       Weak         Material housing       Place         Lodking material       Z Do Co         Deparating temperature max.       26 °C         Additonal condition temperature range       de   |  | ·  |
| Operating voltage DC max       36 V         Current operating voltage max       56 V         Current operating voltage rothact max       4 A         Diagostics       Status indication LED         Status indication LED       yellow         Device protection   Electrical       Mathematics         Additional condition protection degree       inserted, screwed         Rated surge voltage       0.8 kV         Material group (IEC 0064-1)       1         Additional condition protection degree       inserted, screwed         Material group (IEC 0064-1)       1         Additional condition protection degree       Nokeled         Conting locking       Nokeled         Conting locking       Pastic         Conting locking       Pastic         Mounting detait       Zor dia casting         Mounting detait       Tor dia casting         Mounting method       inserted, screwed         Environmental characteristics ( Climate       Operating temperature max.         Operating temperature max.       25 °C         Operating temperature max.       25 °C         Operating temperature max.       25 °C         Operating temorphrature max.       25 °C </td <td></td> <td>18 V</td>   |  | 18 V   |
| C4 of geak voltage max.   55 V     Current operating per contact max.   4 A     Diagnostics   Status indication LED   yellow     Device protection   Electrical   Additional condition relation (Stotward)     Rated surge voltage   0.8 kV     Material group (IEC 60064.1)   1     Additional condition (Stotward)   2 foode     Material group (IEC 60064.1)   1     Coating boking   Nickled     Coating boking   Nickled     Coating boking   Verzinkl     Coating boking   Nickled     Locking material   Zinc die-casting     Mechanical dia   Mounting data   Microal scatteristics   Gimatic     Operating temperature max.   85 °C     Operating temperature max.   85 °C     Additional condition temperature range   depending on cable quality     Important isstallation notes   Microal cobing casting and the scatteristics   Gimatic     Coating boking additional condition temperature range   depending on cable quality     Important isstallation notes   85 °C <   |  |  |
| Current operaling per contact max.       4 A         Diagnostics       Status indication LED       yellow         Device protection   Electrical       Inserted, screwed       Relation up on the inserted, screwed         Relation surge values       0.8 kV       Relation up on the inserted, screwed         Relation up on the inserted, screwed       Relation up on the inserted, screwed         Relation up on the inserted, screwed       Relation up on the inserted, screwed         Material group (IEC 60664.1)       I         Additional suppressor       2 Diode         Machanical data       Material prove (IEC 60664.1)         Conting biologing       Nakeded         Conting biologing       Partic         Color housing       Diack         Material housing       Partic         Lacking method       inserted, screwed         Environmental characteristics   Climatic       Operating temperature max.         Operating temperature max.       85 °C         Additional condition temperature max.       85 °C         Additional conditis </td <td></td> <td></td>   |  |  |
| DescriptionStrute infoction LEDDevice protection I ElectricalDevice protection Protectin dong volumeNational condition Condition Protectin dong volumeRated group (IEC 60664-1)1Cataling to protectin dong volumeAddronal supprisedAddronal supprisedCataling to protectin dong volumeCataling to protectin dong volumeDevice protectin dong volumeCataling to protectin dong volumeCataling to protectin dong volumeDevice protectin dong volumeCataling to protectin dong volumeDevice protectin dong volumeCataling to protectin dong volumeDeversing temperature min.25 °COperating temperature max.26 °CNot on bending radiusMatter conserve the protection classes and mainOperating temperature max.26 °CContomityProduct tardardDi Ne No 107 6 2 -101 (M12), DIN EN 17301-803 (MSUD)Institution I CableCataling Color Volume instalationMater instalation on data in the final data in the final data in  |  |  |
| Status indication LED       yellow         Device protection [Electrical  |  |  |
| Device protection   Electrical         Additional condition protection degree       inserted, screwed         Rated surge voltage       0.8 kV         Material group (ECC 60664-1)       1         Additional suppressor       Z-Dode         Mechanical data   Material data       Control         Conting locking       Nickeled         Locking screw coating       vernikt         Color housing       black         Meterial nousing       Plastic         Meterial nousing       Plastic         Meterial nousing       Plastic         Moning methon       Inserted, screwed         Environmental characteristics   Climatic       S ro         Operating temperature min.       -25 ro         Operatin traitalistion notes       Attention: Observe the per  | -  |  |
| Additional condition protection degree       inserted, screwed         Rated surge voltage       0,8 kV         Rated surge voltage       0,8 kV         Additional suppressor       2 Diode         Mechanical data   Material data       E         Coating locking       Nickaled         Coating locking       Nickaled         Color housing       Verzinkt         Color housing       Plastic         Cocking screw coating       Conditional screwed         Metarial housing       Plastic         Cocking method       Inserted, screwed         Environmetal characteristics   Climati       Operating temperature min.         Operating temperature max.       85 °C         Additional condition temperature max.       85 °C         Note on strain relief       Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable lines.         Attention: Coscers the permissible bonding radi when laying cables, as the IP protection dass can be enving forces.         Color thui susulation       Mecial into temperature may   |  | yellow   |
| Rated surge voltage       0.8 kV         Material group (EC 60664.1)       1         Addional suppreseror       Z-Dode         Mechanical data   Material data       Costing Locking       Nickeled         Costing Locking       Nickeled       Color housing       Vestark         Color housing       Vestark       Color housing       Vestark         Color housing       Plasic       Color housing       Plasic         Locking serve coating       Vestark       Color housing       Plasic         Color housing       Plasic       Plasic       Color housing       Plasic         Color housing       Plasic       Color housing       Vestark       Color housing       Plasic         Color housing       Plasic       Color housing       Plasic       Color housing  |  |  |
| Material group (IEC 60664-1)       I         Additional suppressor       Z-Diode         Mechanical data   Material data       Color         Cooling locking       Nickeled         Locking grow coaling       verzinkt         Color housing       black         Material housing       Plastic         Locking material       Zinc die-casting         Metrial housing       Plastic         Color housing       inserted, screwed         Environmetal characteristics   Climatic       Color         Operating temperature min.       -25 °C         Operating temperature max.       85 °C         Additional condition temperature max.       85 °C         Additional condition temperature max.       85 °C         Note on strain rollef       Protect the connectors by suitable measures from mechanical loads, o.g. by the usage of cable ites.         Note on brinding radius       Attention: Observe the parmissible bending radii when laying cables, as the IP protection class can be ording neces.         Conternity       Protect the connectors by suitable measures from mechanical loads, o.g. by the usage of cable ites.         Attention:       Observe the parmissible bending radii when laying cables, as the IP protection class can be ording neces.         Color       Dix NE 1076-   |  |  |
| Additional suppressor     Z-Diode       Mechanical data   Material data       Coaling locking     Nickeled       Cooling over osating     verzinkt       Color housing     black       Material housing     Plastic       Locking screew osating     verzinkt       Material housing     Plastic       Locking material     Zino clie-asting       Mechanical data   Mounting data     Mounting method       Mounting method     inserted, screwed       Environmental characteristics   Climatic     Operating temperature min.       Operating temperature main.     25 °C       Operating temperature max.     85 °C       Additional condition temperature range     depending on cable quality       Important installation notes     Material in Cobserve the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.       Conformity     Develocut standard       Product standard     636       Cable fortification     635       Cable fortification     636       Cable fortification     616x       Type of Contrificate     cURus       Anount stranding     1       Stranding <t< td=""><td></td><td>0,8 kV</td></t<>   |  | 0,8 kV   |
| Mechanical data   Material data         Coating locking       Nickeled         Locking sorew coating       Verzinkt         Codin housing       Back         Material housing       Plastic         Locking material       Zinc die-casting         Mechanical data   Mounting data       Inserted, screwed         Environmental characteristics   Climatic       Operating temperature min.       -25 °C         Operating temperature max.       85 °C       Additional condition temperature may.       depending on cable quality         Important installation notes       Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable lies.         Note on strain roll of       Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable lies.         Contomity       Inset 100°C 2-010 (M12), DIN EN 175301-803 (MSUD)         Testaldard       DIN EN 10762-101 (M12), DIN EN 175301-803 (MSUD)         Testaldard       DIN EN 10762-101 (M12), DIN EN 175301-803 (MSUD)         Testaldard       DIN EN 10762-101 (M12), DIN EN 175301-803 (MSUD)         Testaldard       DIN EN 10762-101 (M12), DIN EN 175301-803 (MSUD)         Testaldard       DIN EN 10762-101 (M12), DIN EN 175301-803 (MSUD)         Testaldard       DIN EN 10762-101 (M12), DIN EN 175301-803 (MSUD)   <  |  |  |
| Caling lockingNickeledLocking screw coatingverinktColor housingblackMetriail housingPlasticLocking materialZinc die-castingMetriait housinginserted, screwedMounting methodinserted, screwedEnvironmental characteristics [ Climatic25 °COperating temperature max.85 °CAddition temperature max.85 °CAddition temperature max.85 °CNote on stain reliefProtect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.Note on stain reliefProtect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.Note on stain reliefProtect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.Note on stain reliefProtect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.Rote on stain reliefDie Nein 61076-2-101 (M12), DIN EN 175301-803 (MSUD)Installation Cable26Cable Type3Protect to connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.Installation Cable21Protect to connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.Installation Cable91Standing93Up of CertificationCableCable Type3Protect to connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.Type of CertificatioCableUp of Certificatio <td>Additional suppressor</td> <td>Z-Diode</td>   | Additional suppressor                    | Z-Diode  |
| Locking screw coatingverzinktColor housingDlackMeterial housingPlasticLocking materialZinc die-castingMechanical data   Mounting datainserted, screwedEnvironmental characteristics   ClimaticCoperating temperature max.Operating temperature max.85 °COperating temperature max.85 °CAddition temperature max.85 °CColor temperature max.85 °CCator temperature max.85 °CCator temperature max.90 ± 5 Shore AFreedom tem ingeredient glacket90 ± 5 Shore AFreedom tem ingeredients glacket<   | Mechanical data   Material data          |  |
| Color housing       black         Material housing       Plastic         Locking material       Zinc die-casting         Mechanical data   Mounting data       Inserted, screwed         Environmental characteristics   Climatic       Color housing         Operating temperature min.       -25 °C         Operating temperature min.       -25 °C         Operating temperature min.       -25 °C         Additional condition temperature range       depending on cable quality         Important installation notes       Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endingered by excessive bending fradii when laying cables, as the IP protection class can be endingered by excessive bending forces.         Conformity       Protext tandard       DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)         Installation   Cable       Cable identification       636         Cable identification       636       Cable identification         Operating tangened by excessive bending forces.       Color       Color         Printing color of wire insulation       white (isolation black)       Cable identification       636         Cable identification       Gase       Cable identification       Cable identification       Cable identification       Cable identification </td <td>Coating locking</td> <td>Nickeled</td>   | Coating locking                          | Nickeled   |
| Material housing       Plastic         Locking material       Zinc die-casting         Mechanical data   Mounting data       Inserted, screwed         Environmental characteristics   Climatic       Climatic         Operating temperature min.       -25 °C         Operating temperature max.       85 °C         Additional condition temperature max.       86 °C         Additional condition temperature max.       86 °C         Contermity       Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.         Cable identification       636   | Locking screw coating                    | verzinkt   |
| Locking material       Zinc die-casting         Mechanical data   Mounting data       inserted, screwed         Environmental characteristics   Climatic       Common temperature min.       -25 °C         Operating temperature min.       -25 °C       Operating temperature man.       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 strain relief       Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.         Conformity       Important Installation notes         Product standard       DIN EN 61076-2·101 (M12), DIN EN 175301-803 (MSUD)         Installation   Cable       Cable identification         Cable identification       636         Cable identification       636         Cable identification       black         Type of Certificate       cURus         Amount stranding       1         Stranding       swires twisted         wires arrangement       black 1, black 2, green-yellow         Cable weight       56.1 g/m         Material jacaket   | Color housing                            | black  |
| Mechanical data   Mounting data         Mounting method       inserted, screwed         Environmental characteristics   Climatic         Operating temperature min.       -25 °C         Operating temperature max.       85 °C         Additional condition temperature range       depending on cable quality         Important installation notes       Serve temperature max.         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       Environmental characteristics   Climatic         Product standard       DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)         Installation   Cable       Cable forge         Cable forge       3         Printing color of wire insulation       white (isolation black)         Jacket Color       black         Type of Certificate       UPus         Amount stranding       1         Stranding       3 wires twisted         wire arrangement       black 1, black 2, green-yellow         Cable weight       56, 1 g/m         Material jacket <td< td=""><td>Material housing</td><td>Plastic</td></td<>   | Material housing                         | Plastic  |
| Mounting method       inserted, screwed         Environmental characteristics   Climatic         Operating temperature min.       -25 °C         Operating temperature max.       85 °C         Additional condition temperature range       depending on cable quality         Important installation notes       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.         Conternity       Installation I Cable         Cable identification       636         Cable identification       636         Cable Identification       636         Cable Identification       636         Color       black         Type of Certificate       CHus         Amount stranding       1         Stranding       3 wires twisted         wire arrangement       black 1, black 2, green-yellow         Cable weight       56,1 g/m         Material jackt       PUR         Shore hardness jacket       90 ± 5 Shore A         Freedord from ingredients (jacket)       5.9 mm  | Locking material                         | Zinc die-casting   |
| Environmental characteristics   Climatic         Operating temperature min.       -25 °C         Operating temperature max.       85 °C         Additional condition temperature max.       85 °C         Additional condition temperature may.       depending on cable quality         Important installation notes       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.         Contemity       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.         Contemity       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.         Content       DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)         Installation   Cable       Gable Type         Qable Type       3         Printing color of wire insulation       white (isolation black)         Jacket Color  | Mechanical data   Mounting data          |  |
| Operating temperature min.       -25 °C         Operating temperature max.       85 °C         Additional condition temperature range       depending on cable quality         Important installation notes       Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.         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 175301-803 (MSUD)         Installation   Cable       Cable identification       636         Cable identification       636       Cable identification       536         Type of Certificate       cURus       CURus       Curue         Amount stranding       1       Stranding       3 wires twisted         Wire arrangement       black 1, black 2, green-yellow       Cable weigh       56.1 g/m         Shore hardness jacket       90 ± 5 Shore A       Freedom from ingredients (jacket)       59 mm         Tolerance uric diameter (jacket)       £9 f.9 mm       Sileone-free       Sileone-free         Outer-diameter (jack   | Mounting method                          | inserted, screwed  |
| Operating temperature max.       85 °C         Additional condition temperature range       depending on cable quality         Important Installation notes       Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.         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         Product standard       DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)         Installation   Cable       Cable identification         Cable identification       636         Cable forp       3         Printing color of wire insulation       white (isolation black)         Jacket Color       black         Type of Certificate       cURus         Amount stranding       1         Stranding       Swires twisted         wire arrangement       black 1, black 2, green-yellow         Cable weigh       56.1 g/m         Material jacket       PUR         Shore hardness jacket       90 ± 5 Shore A         Freedom from ingredients (jacket)  | Environmental characteristics   Climatic |  |
| Additional condition temperature range       depending on cable quality         Important installation notes       Mote 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 175301-803 (MSUD)         Installation   Cable       Cable identification       636         Cable function       636       Cable Type       3         Printing color of wire insulation       white (isolation black)       Jacket Color       black         Type of Certificate       cURus       Amount stranding       1         Stranding       3 wires twisted       wire arrangement       black 1, black 2, green-yellow         Cable weigth       56,1 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)       5.9 mm       Stranding       1.5 %         Material wire insulation       PP       PP       Amount wires       3  | Operating temperature min.               | -25 °C   |
| 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         Product standard       DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)         Installation   Cable       Cable force         Cable didentification       636         Cable Type       3         Printing color of wire insulation       white (isolation black)         Jacket Color       black         Type of Certificate       cURus         Amount stranding       1         Stranding       3 wires twisted         wire arrangement       black 1, black 2, green-yellow         Cable weigth       56,1 g/m         Material jacket       PUR         Shore hardness jacket       90 ± 5 Shore A         Freedom from ingredients (jacket)       bead-free, cAfformum-free, CFC-free, halogen-free, silicone-free         Outer-diameter (jacket)       5,9 mm         Tolerance outer diameter (sheath)       ± 5 %         Material wire insulation       PP   | Operating temperature max.               | 85 °C  |
| Note on strain reliefProtect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.Note on bending radiusAttention: Observe the permissible bending radii when laying cables, as the IP protection class can be<br>endangered by excessive bending forces.ConformityProduct standardDIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)Installation   CableCable identification636Cable identification636Cable Type3Printing color of wire insulationwhite (isolation black)Jacket ColorblackUppe of CartificatecURusAmount stranding1Stranding3 wires twistedwire arrangementblack 1, black 2, green-yellowCable weigth56,1 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)5.9 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires3  | Additional condition temperature range   | depending on cable quality   |
| Note on bending radiusAttention: Observe the permissible bending radii when laying cables, as the IP protection class can be<br>endangered by excessive bending forces.ConformityProduct standardDIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)Installation   CableCable identification636Cable identification636Cable identificationwhite (isolation black)Jacket ColorblackUppe of CertificatecURusAmount stranding1Stranding3 wires twistedwire arrangementblack 1, black 2, green-yellowCable weigth56.1 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)5.9 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires3  | Important installation notes             |  |
| Note of in behalting radiusendangered by excessive bending forces.ConformityProduct standardDIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)Installation   CableCable identification636Cable identification636Cable or of wire insulationwhite (isolation black)Jacket ColorblackType of CertificatecURusAmount stranding1Stranding3 wires twistedwire arrangementblack 1, black 2, green-yellowCable weigth56,1 g/mMaterial jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)5,9 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires3  | Note on strain relief                    | Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  |
| Product standardDIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)Installation   CableCable identification636Cable identification636Cable Type3Printing color of wire insulationwhite (isolation black)Jacket ColorblackType of CertificatecURusAmount stranding1Stranding3 wires twistedwire arrangementblack 1, black 2, green-yellowCable weigth56,1 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)iead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (sheath)± 5 %Material wire insulationPPAmount wires3  | 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. |
| Installation   CableCable identification636Cable Type3Printing color of wire insulationwhite (isolation black)Jacket ColorblackType of CertificatecURusAmount stranding1Stranding3 wires twistedwire arrangementblack 1, black 2, green-yellowCable weigth56,1 g/mMaterial jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)5,9 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires3  | Conformity                               |  |
| Installation   CableCable identification636Cable Type3Printing color of wire insulationwhite (isolation black)Jacket ColorblackType of CertificatecURusAmount stranding1Stranding3 wires twistedwire arrangementblack 1, black 2, green-yellowCable weigth56,1 g/mMaterial jacket9U ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)5,9 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires3  | Product standard                         | DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)   |
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| Material jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)5,9 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires3  | -  |  |
| Shore hardness jacket   90 ± 5 Shore A     Freedom from ingredients (jacket)   lead-free, cadmium-free, CFC-free, halogen-free, silicone-free     Outer-diameter (jacket)   5,9 mm     Tolerance outer diameter (sheath)   ± 5 %     Material wire insulation   PP     Amount wires   3   |  | -  |
| Freedom from ingredients (jacket)   lead-free, cadmium-free, CFC-free, halogen-free, silicone-free     Outer-diameter (jacket)   5,9 mm     Tolerance outer diameter (sheath)   ± 5 %     Material wire insulation   PP     Amount wires   3  |  |  |
| Outer-diameter (jacket)5,9 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires3  |  |  |
| Tolerance outer diameter (sheath)   ± 5 %     Material wire insulation   PP     Amount wires   3  |  |  |
| Material wire insulation   PP     Amount wires   3  |  | ·  |
| Amount wires 3  |  |  |
|   |  |  |
| Outer diameter insulation 1,85 mm   |  |  |
|   | Outer diameter insulation                | 1,85 mm  |

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| 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 |
| Printing color of wire insulation                 | white (isolation black)  |
| Amount strands (wire)                             | 42   |
| Diameter of single wires                          | 0,15 mm  |
| Conductor crosssection (wire)                     | 0,75 mm <sup>2</sup>   |
| Material conductor wire                           | Stranded copper wire, bare                                     |
| Conductor type (wire)                             | strand class 6   |
| Traversing distance (C-track)                     | 10 m @ 25 °C   horizontal                                      |
| Nominal voltage AC max.                           | 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)                | 2,5 kV @ 60 s  |
| Power frequency withstand voltage (wire - jacket) | 2,5 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)                            | 10 Mio. @ 25 °C  |
| No. of torsion cycles                             | 2 Mio.   |
| Torsion stress                                    | ± 180 °/m  |
| Torsion speed                                     | 35 cycles/min  |

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