

## M12 male 90° / M8 female 0° A-cod.

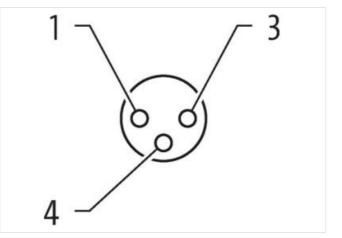
PVC 3x0.25 bk UL/CSA 0.3m

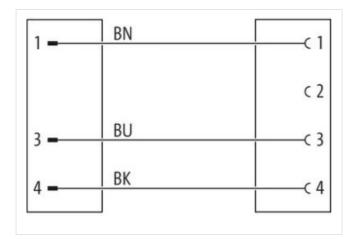
Male 90° - female straight M12 - M8, 3-pole Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

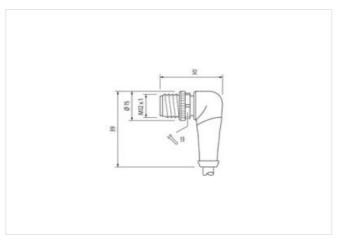
## Link to Product

## Illustration



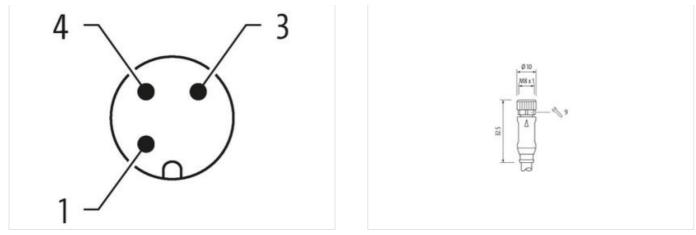






The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-05-04





Product may differ from Image



| Cable length                        | 0,3 m             |
|-------------------------------------|-------------------|
| Side 1                              |                   |
| Tightening torque                   | 0,6 Nm            |
| Mounting method                     | inserted, screwed |
| Family construction form            | M12               |
| Thread                              | M12 x 1           |
| Material                            | PUR               |
| Width across flats                  | SW13              |
| Degree of protection (EN IEC 60529) | IP66K, IP67       |
| Side 2                              |                   |
| Tightening torque                   | 0,4 Nm            |
| Mounting method                     | inserted, screwed |
| Family construction form            | M8                |
| Thread                              | M8 x 1            |
| Material                            | PUR               |
| Width across flats                  | SW9               |
| Degree of protection (EN IEC 60529) | IP66K, IP67       |
| Commercial data                     |                   |
| ECLASS-6.0                          | 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                                | 4048879417655     |
| Packaging unit                      | 1                 |
| Electrical data   Supply            |                   |
| Operating voltage AC max.           | 250 V             |
| Operating voltage DC max.           | 250 V             |
|                                     |                   |

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



| Device protection   Electrical     Insertion, service         Additional condition protection ofgores     1.5.4V       Reade aruge values     1.5.4V       Backed aruse values     Inc. disc.asting       Multical across connection     Zine disc.asting       Operating terperature range     depending on cable quality       Motion al installation notes     Protect the connections by suitable measures from mechanical loads, og, by the usage of cable fors       Note on starin relation     Brotection Chasse cable genetistable bending facility and urbin taying cables, as the IP protection class can be indragenet by soutable       Additional Coole     Uberlation       Cable defitity and taying tayi  | Current operating per contact max.       | 4 A  |
|---|--|--|
| Additional condition protection degree     inserted. screwed       Rated surge voltage     1.5 kV       Mechanical disk [Mecinal data]     in.cel plated       Material scow connection     Zie dia casting       Mechanical disk [Journing data]     in.cel plated       Material scow connection     Zie dia casting       Mechanical disk [Journing data]     in.cel plated       Developing temperature max.     85 °C       Operating temperature max.     85 °C       Additional contents     depending on cable quality       Important Installation nonee     Important by suitable measures from mechanical loads, og. by the usage of cable loss.       Note on bending radius     Attention: Contents by suitable measures from mechanical loads, og. by the usage of cable loss.       Tope of cellification     610       Cadie dropfication     1       Cadie dropfication     1       Cadie dropfication     1       Cadie dropfication     9 wides wisked       Cadie intrafe     PLN is       Cadie intrafe     PLN is       Cadie intrafe     PVC       Cadie intrafe     9 °C       Cadie intrafe     9 °C <t< td=""><td></td><td></td></t<>   |  |  |
| Bated surge voltage     1,5 kV       Machanical datal [Material data     Cacaling of films     no.kela plated       Material acrow connection     Zine die-casting     Material acrow connection     Zine die-casting       Machanical data [Mourning data     Inserred, screwed, Shaking protection     Environmental characteristics   Climatic       Operating temperature min.     -25 °C     Operating temperature max.     85 °C       Addecond 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 ites.       Materianic Color     Data     ondingendity for the usage of cable ites.       Materianical Color     Data     ondingendity for the usage of cable ites.       Materianical Color     Data     ondingendity for the usage of cable ites.       Materianical Color     Data     ondingendity for the usage of cable ites.       Attention: Color with the permissible bending radii when isying cables, as the IP protection class can be ondingendity the straingendity for the usage of cable ites.       Materianization     G10     Cable       Cable identification     G10     Cable       Mareadi across in busa   | •  |  |
| Mechanical data     Mechanical data       Casting of thing     nickle plated       Mechanical data (Mounting data     inserred, screwed, Shaking protoction       Mechanical data (Mounting data     inserred, screwed, Shaking protoction       Environmental characteristics (Climate     -25 °C       Operating temperature max.     85 °C       Additional condition temperature range     depending on cable quality       Important Issibilition notes     -       Note on train nellef     Protect the connectors by suitable measures from mechanical toats, e.g. by the usage of cable issis, and the instinution of the connectors by suitable measures from mechanical toats, e.g. by the usage of cable issis and endingered by accessive bending forces.       Institution I Cable   |  |  |
| Cating of firing     nickei plated       Material scow connection     Zor die casting       Mechanical dial Mouning delta     inserted, screwed, Shaking protection       Environmental characteristics (Ulimati     Sor Ci       Operating temperature min.     25 °C       Operating temperature min.     25 °C       Operating temperature max.     85 °C       Additional condition temperature range     depending on cable quality       More in strain relief     Protect the connectors by subble measures from mechanical loads, e.g. by the usage of cable lise.       Note on strain relief     Protect the connectors by subble measures from mechanical loads, e.g. by the usage of cable lise.       Cable dentification (Cable     Environmechanical loads, e.g. by the usage of cable lise.       Cable dentification (Cable)     Environmechanical loads, e.g. by the usage of cable lise.       Cable dentification (Cable)     Environmechanical loads, e.g. by the usage of cable lise.       Cable dentification (Cable)     Environmechanical loads, e.g. by the usage of cable lise.       Material strainfiel     Protect the connectors by subble bending totes.       Strainfield     Environmechanical loads, e.g. by the usage of cable lise.       Material strainfield     Elos thentotes with subsle       Pr  |  | 1,3 KV   |
| Material screw connection     Zinc die-casting       Mechanical data     Mounting mathematical data screword, Shaking protoction       Environmental characteristics   Climatic     Construction       Operating integroatrue max.     85 °C       Additional condition temperature range     depending on cable quality       Important installation notes     Nole on strain relid     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable like.       Nole on strain relid     Attention: Coserve the permissible bending radii when laying cables, as the IP protection datas can be enclangered by accessive bending faces.       Installation (cable     Cable installation and the enclangered by accessive bending faces.       Cable installation     610     Cable installation       Cable installation     610     Cable installation       Cable installation     910     Cable installation       Cable installation     914     Cable installation       Stranding     1     Cable installatinsteristin installation       Cable   | Mechanical data   Material data          |  |
| Mechanical data [Mounting data     Inserted, screwed, Shaking protection       Environmental characteristics [Climatic     Coperating temperature max.     85 °C       Operating temperature max.     85 °C       Additional condition temperature range     depending on cable quality       Important instillation notes     Important instillation notes       Note on shrain rolled     Protect the connectors by suitable measures from mechanical loads, e.g., by the usage of cable lise.       Nate on shrain rolled     Protect the connectors by suitable measures from mechanical loads, e.g., by the usage of cable lise.       Installation (Cable     Cable identification       Cable identification     610       Cable Irope     1       Jacka Cloin     Dalkak.       Topp of Cortificat     UPUsa       Annort stranding     Nerves have based       Wei a arrangement     brow, black, blue       Cable weigh     93.7 g/m       Material (about)     18.3 from       Cable weigh     95 °S Shore A       Freedom from ingredients (about)     18.5 from       Cable weigh     95 °S Shore A       Freedom from ingredients (about)     5 %       Cable weigh   |  |  |
| Muniting method     inserted, screwed, Shaking protection       Environmental characteristics [Climatic     Comparing temperature max.     85 °C       Operating temperature max.     85 °C     Comparing temperature max.     85 °C       Additional condition temperature range     depending on cable quality     Important installation notes       Note on strain nelled     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tos.       Installation [Cable     Comparing temperature max.     810       Cable forefort     Block     Comparing temperature may.       Cable forefort     Block     Comparing temperature may.       Type of Certificate     cliffue     Cliffue       Cable forefort     Block     Comparing temperature may.       Type of Certificate     cliffue     Cliffue       Cable weigh     28.37 g/m     Material packet       Cable weigh     28.37 g/m     Material packet       Chard durating facked     PVC     Since hardness jacket     85 ± 5 Shore A       Freedom from ingreeding facebrain     28.7 g/m     Material packet       Card durating facebrain     28.5 Shore A     Sincon A   | Material screw connection                | Zinc die-casting   |
| Environmental characteristics   Climatic     25 °C       Operating temperature min.     25 °C       Additional condition temperature mage     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 dass can be and angered by excessive bending traces.       Cable identification     610       Cable identification     610       Cable IType     1       Jocket CoOr     bank       Type of Certificate     cURus       Amount stranding     1       Stranding     3 wires bristed       Wries margement     brown, block, blue       Cable weight     99,37 g/m       Material jackt     PVC       Stranding     1 wires wristed       Wried all weing version (wries)     45 % Nm       Telecohn rom ingredients (gackt)     45 % S       Outer-diameter (locket)     4,5 mm       Cable weight     1,25 mm       Outer-diameter (locket)     4,5 % S       Material properties wire insulation     <  | 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     Important installation notes       Note on strain relief     Profect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable lies.       Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endingered by socessive bending lonces.       Installation I Gable     Cable Type       Cable Iogentification     610       Cable Type     1       Jacket Color     black       Type of Cartificatio     cUBus       Anount strainding     1       Stranding     sites twisted       wire arrangement     brown, black, blue       Cable weigh     29,37 g/m       Material jacket     PVC       Shore hardness jackot     54 5 Shore A       Freedom from ingredients (jacket)     load-free, cadmium free, CFC free, silicone-free       Outer diameter installation     125 mm       Outer diameter installation     125 mm       Outer diameter installation     15 %       Indeamore in   | Mounting method                          | inserted, screwed, Shaking protection  |
| Operating temperature max.     85 °C       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 strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Installation (Gable     Attention: Observe the permissibile bending radii when laying cables, as the IP protection class can be endangered by excessive bending tradii when laying cables, as the IP protection class can be endangered by excessive bending tradii when laying cables, as the IP protection class can be endangered by excessive bending tradii when laying cables, as the IP protection class can be endangered by excessive bending tradii when laying cables, as the IP protection class can be endangered by excessive bending tradii when laying cables, as the IP protection class can be endangered by excessive bending tradii when laying cables, as the IP protection class can be endangered by excessive bending tradii when laying cables, as the IP protection class can be endangered by excessive bending tradii when laying cables, as the IP protection class can be endangered by excessive bending tradii when laying cables, as the IP protection class can be endangered by excessive bending tradii when laying cables, as the IP protection class can be endangered by excessive bending tradii when laying cables, as the IP protection class can be endangered by excessive the protection class can be endangered by excessive back due to the cable weight the tradit protection class can be endangered by excessive the protection class can be endangered by excessive the protection class can be endangered by  | Environmental characteristics   Climatic |  |
| Additional condition temperature range     depending on cable quality       Important installation notes     Mote on strain rollef     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ites.       Note on brinding radius     Attention: Observe the permissibile bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.     Installation (Cable Cable Cable Cable Cable)       Installation (Cable Cable Cable Cable)     610     Cable Cab  | Operating temperature min.               | -25 °C   |
| Important installation notes     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable lies.       Note on bending radius     Attention: Observe the permissible bending radii when isying cables, as the IP protection class can be ended then in the protection class can be ended then in the permissible bending radii when isying cables, as the IP protection class can be ended then in the protection class can be protection class can be ended then in the protection class can be ended then in the protection class can be end then in theory can be ended then in the protection class can | Operating temperature max.               | 85 °C  |
| Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable lies.       Note on bending radius     Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be and angeerd by excessive bending forces.       Installation   Cable     Cable identification     610       Cable Type     1     Cable Type     1       Jacket Color     black     Column     Column     Column       Stranding     1     Stranding     1     Stranding     Stranding     1       Stranding     3 wires twisted     Stranding     1     Stranding     Strandig   | Additional condition temperature range   | depending on cable quality   |
| Note on bending radius     Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangeed by excessive bending forces.       Installation (Cable)     Cable identification     610       Cable identification     610     Cable identification     Figure 2000       Cable identification     610     Cable identification     Figure 2000     <  | Important installation notes             |  |
| 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 (Cable)       Cable identification     610       Cable Type     1       Jacket Color     black       Type of Cartificate     CURus       Amount stranding     1       Stranding     3 wires twisted       wire arrangement     brown, black, blue       Cable weigth     29.37 g/m       Material jacket     PVC       Shore hardness jacket     85 ± 5 Shore A       Freedom from ingredients (jacket)     lead-free, cadmium-free, CFC-free, silicone-free       Outer-diameter (jacket)     4.5 m       Tolerance outer diameter (sheath)     4.5 %       Material wire insulation     PVC       Amount wires     3       Outer-diameter insulation     1.25 mm       Outer diameter insulation     4.5 %       Shore hardness wire insulation     45 ± 5 Shore D       Material properies wire insulation     4.5 ± 5 %       Shore hardness wire insulation     4.5 ± 5 %       Shore hardness wire insulation  | Note on strain relief                    | Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.    |
| Installation ( Cable       Cable identification     610       Cable identification     610       Cable identification     black       Type of Carlifacte     CURus       Amount stranding     1       Stranding     3 wires twisted       wire arrangement     brow, black, blue       Cable weigth     29,37 g/m       Material jacket     PVC       Stranding     55 t 5 Shore A       Freedom from ingredients (jacket)     lead-free, cadmium-free, CFC-free, silicone-free       Catle-diameter (jacket)     45 t 5 m       Tolerance outer diameter (sheatth)     15 %       Material wire insulation     PVC       Amount wires     3       Outer diameter fuelscation     PVC       Amount wires     3       Outer diameter insulation     PVC       Amount wires     3       Shore hardness wire insulation     1,25 mm       Outer diameter insulation     1,25 mm       Outer diameter insulation     1,25 mm       Cathed-free, cadmium-free, CFC-free, silicone-free       Amount strands (wire)     1,4 <td< td=""><td></td><td>Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be</td></td<>   |  | Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be |
| Cable identification610Cable identification610Cable Vpp1Jacket ColorblackType of CortificatecURusAmount stranding1Stranding3 wires twistedwire arrangementbrown, black, blueCable weight29,37 g/mMaterial jacketPVCShore hardness jacket85 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, silicone-freeOuter-diameter (jacket)4.5 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPVCAmount wires3Outer diameter (learce)20 machinabilityIngredients (jacket)4.5 mmOuter diameter (learce)25 %Shore hardness wire insulation1.25 mmOuter diameter (learce)good machinabilityIngredient freeness wire insulation4.5 t 5 Shore DMaterial properties wire insulation1.4Ingredient freeness wire insulation1.4Ingredient freeness wire insulation1.4Ingredient freeness wire insulation1.4Conductor type (wire)0.15 mmConductor type (wire)Stranded copper wire, bareConductor type (wire)Strand class 5Nominal voltage (Marce - 27 CAAc withstand voltage (wire - wire)2.4 V $@$ 60 sPower frequency withstand voltage (wire - wire)2.4 V $@$ 60 sNomina vortage (Marce - wire)2.4 V $@$ 60 sPower frequency withstand voltage (wire - wire) </td <td></td> <td>endangered by excessive bending forces.</td>   |  | endangered by excessive bending forces.  |
| Cable Type1Jacket ColorblackType of CertificatecURusAmount stranding1Stranding3 wires twistedwire arrangementbrown, black, blueCable weigh29.37 g/mMaterial jacketPVCShore hardness jacket85 ± 5 Shore AFreedom from ingredients (jacket)4.5 mmTolerance outer diameter (jacket)4.5 mmTolerance outer diameter (sheath)± 5 %Material jacket risulationPVCAmount wires3Outer diameter follower3Outer diameter tolerance core insulation1.25 mmOuter diameter tolerance core insulation4.5 ± 5 Shore DMaterial previews wire insulation4.5 ± 5 Shore DMaterial previews insulation4.5 ± 5 Shore DMaterial previews insulation4.5 ± 5 Shore DMaterial properties wire insulation4.5 ± 5 Shore DMaterial properties wire insulationuead-free, cadmium-free, CFC-free, silicone-freeAmount wires3Outer diameter tolerance core insulationuead-free, cadmium-free, CFC-free, silicone-freeAmount strands (wire)14Ibareter of single wires0.15 mmConductor trossection (wire)0.25 mm²Conductor type (wire)Strand class 5Normal capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4 <t< td=""><td>Installation   Cable</td><td></td></t<>   | Installation   Cable                     |  |
| Jacket Color     black       Type of Certificate     cURus       Amount stranding     1       Stranding     3 wires twisted       wire arrangement     brown, black, blue       Cable weigth     29,37 g/m       Material jacket     PVC       Shore hardness jacket     85 ± 5 Shore A       Freedom from ingredients (jacket)     4.5 mm       Tolerance outer diameter (sheath)     ± 5 %       Material vire insulation     PVC       Amount wires     3       Outer diameter (sheath)     ± 5 %       Material wire insulation     PVC       Amount wires     3       Outer diameter lowance ore insulation     1.25 mm       Outer diameter lowance ore insulation     5 %       Shore hardness wire insulation     45 ± 5 Shore D       Material vire insulation     1.44       Diameter ot single wires     0.15 mm       Conductor crosssection (wire)     0.25 mm²       Material properties wire insulation     lead-free, cadmium-free, CFC-free, silicone-free       Amount strands (wire)     14       Diameter ot single wires     0.15 mm <td>Cable identification</td> <td>610</td>  | Cable identification                     | 610  |
| Type of CertificatecURusAmount stranding1Stranding3 wires twistedwire arrangementbrown, black, blueCable weight29,37 g/mMaterial jacketPVCShore hardness jacket85 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmum-free, CFC-free, silicone-freeOuter diameter (jacket)4.5 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPVCAmount wires3Outer diameter insulation1.25 mmOuter diameter insulation45 ± 5 Shore DMaterial properties wire insulation45 ± 5 Shore DMaterial properties wire insulationlead-free, cadmium-free, CFC-free, silicone-freeAmount strands (wire)14Diameter of single wires0,15 mmConductor wireStranded copper wire, bareConductor wire <t< td=""><td>Cable Type</td><td>1</td></t<>  | Cable Type                               | 1  |
| Arount stranding1Stranding3 wires twistedwire arrangementbrown, black, blueCable weigh29.37 g/mMaterial jacketPVCShore hardness jacket85.5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, silicone-freeOuter-diameter (jacket)4.5 mmTolerance outer diameter (shealth)± 5 %Material wire insulationPVCArnount wires3Outer diameter insulation1.25 mmOuter diameter insulation± 5 %Shore hardness wire insulation± 5 %Shore hardness wire insulation± 5 %Material properties wire insulation± 5 %Shore hardness wire insulation± 5 %Material properties wire insulation± 5 %Shore hardness wire insulation1.25 mmOuter diameter of single wires0,15 mmConductor wire0.15 mm²Conductor wireStranded copper wire, bareConductor wireStranded copper wire, bareConductor wireStranded copper wire, bareNominal voltage AC max.300 VCurrent load capacity min. wire4,5 ACurrent load capacity min. wire4,5 ACurrent load capacity min. wire2 kV @ 60 sPower frequency withstand voltage (wire - inter)2 kV @ 60 sPower frequency withstand voltage (wire - inter)2 kV @ 60 s   | Jacket Color                             | black  |
| Stranding     3 wires twisted       wire arrangement     brown, black, blue       Cable weigth     29,37 g/m       Material jacket     PVC       Shore hardness jacket     85 ± 5 Shore A       Freedom from ingredients (jacket)     lead-free, cadmium-free, CFC-free, silicone-free       Outer-diameter (jacket)     4,5 mm       Tolerance outer diameter (shealth)     ± 5 %       Material wire insulation     PVC       Amount wires     3       Outer diameter tolerance core insulation     1,25 mm       Outer diameter tolerance core insulation     ± 5 %       Material wire insulation     4,5 ts Shore D       Material wire insulation     4,5 ± Shore D       Material properties wire insulation     lead-free, cadmium-free, CFC-free, silicone-free       Amount wires     3       Outer diameter tolerance core insulation     lead-free, cadmium-free, CFC-free, silicone-free       Amount strands (wire)     14       Diameter of single wires     0,15 mm       Conductor rwise     Strand class 5       Nominal voltage AC max.     300 V       Current load capacity min. wire     4,5 A  | Type of Certificate                      | cURus  |
| wire arangement     brown, black, blue       Cable weigth     29,37 g/m       Material jacket     PVC       Shore hardness jacket     85 ± 5 Shore A       Freedom from ingredients (jacket)     lead-free, cadmium-free, CFC-free, silicone-free       Outer-diameter (jacket)     4,5 mm       Tolerance outer diameter (sheath)     ± 5 %       Material wire insulation     PVC       Amount wires     3       Outer diameter (sheath)     ± 5 %       Shore hardness wire insulation     1,25 mm       Outer diameter tolerance core insulation     ± 5 %       Shore hardness wire insulation     45 ± 5 Shore D       Material properties wire insulation     god machinability       Ingredient freeness wire insulation     lead-free, cadmium-free, CFC-free, silicone-free       Amount strands (wire)     14       Diameter of single wires     0,15 mm       Conductor wire     Stranded copper wire, bare       Conductor type (wire)     Strand class 5       Nominal voltage AC max.     300 V       Current load capacity (standard)     to DIN VDE 0298-4       Current load capacity min. wire     4.5 A <tr< td=""><td>Amount stranding</td><td>1</td></tr<>  | Amount stranding                         | 1  |
| Cable weigth     29,37 g/m       Material jacket     PVC       Shore hardness jacket     85 ± 5 Shore A       Freedom from ingredients (jacket)     lead-free, cadmium-free, CFC-free, silicone-free       Outer-diameter (jacket)     4.5 mm       Tolerance outer diameter (sheath)     ± 5 %       Material wire insulation     PVC       Amount wires     3       Outer diameter insulation     1,25 mm       Outer diameter ore insulation     ± 5 %       Shore hardness wire insulation     4.5 ± 5 Shore D       Material properties wire insulation     good machinability       Ingredient freeness wire insulation     lead-free, cadmium-free, CFC-free, silicone-free       Amount strands (wire)     14       Diameter of single wires     0,15 mm²       Conductor reassection (wire)     0,25 mm²       Material conductor wire     Stranded copper wire, bare       Conductor type (wire)     Stranded copper wire, bare       Conductor type (wire)     Stranded copper wire, bare       Conductor wire     Stranded copper wire, bare       Conductor type (wire)     Stranded copper wire, bare       Conductor type (wire) <t< td=""><td>Stranding</td><td></td></t<>  | Stranding                                |  |
| Material jacketPVCShore hardness jacket $85 \pm 5$ Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, silicone-freeOuter-diameter (jacket) $4.5$ mmTolerance outer diameter (shealth) $\pm 5$ %Material wire insulationPVCAmount wires $3$ Outer diameter tolerance core insulation $1.25$ mmOuter diameter insulation $1.25$ mmOuter diameter insulation $4.5 \pm 5$ Shore DMaterial wire insulation $4.5 \pm 5$ Shore DMaterial wire insulation $4.5 \pm 5$ Shore DMaterial properties wire insulation $4.5 \pm 5$ Shore DMaterial properties wire insulationgood machinabilityIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, silicone-freeAmount strands (wire) $14$ Diameter of single wires $0.15$ mmConductor crosssection (wire) $0.25$ mm²Material conductor wireStranded copper wire, bareConductor type (wire)Stranded ss 5Nominal voltage AC max. $300$ VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (min. wire $4.5$ AElectrical resistance line constant wire $79 \Omega$ km @ 20 °CAC withstand voltage (wire - wire) $2 kV @ 60$ sPower frequency withstand voltage (wire - iacket) $2 kV @ 60$ sMixer and stand voltage (wire - iacket) $-30$ °C  |  |  |
| Shore hardness jacket85 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, silicone-freeOuter-diameter (jacket)4,5 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPVCAmount wires3Outer diameter tolerance core insulation1,25 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation45 ± 5 Shore DMaterial properties wire insulationgood machinabilityIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, silicone-freeAmount wires0,15 mmConductor crosssection (wire)0,25 mm²Material conductor wireStranded copper wire, bareConductor wireStrand class 5Nominal voltage AC max.300 VCurrent load capacity (standard)to INI VDE 0298-4Current load capacity min. wire4,5 AElectrical resistance line constant wire79 $\Omega$ /km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sPower frequency withstand voltage (wire - wire)2 kV @ 60 sPower frequency withstand voltage (wire - wire)2 kV @ 60 sPower frequency withstand voltage (wire - wire)2 kV @ 60 sMin. operating temperature (static)-30 °C  |  |  |
| Freedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, silicone-freeOuter-diameter (jacket) $4.5 \text{ mm}$ Tolerance outer diameter (sheath) $\pm 5 \%$ Material wire insulationPVCArnount wires $3$ Outer diameter insulation $1.25 \text{ mm}$ Outer diameter insulation $1.25 \text{ mm}$ Outer diameter tolerance core insulation $\pm 5 \%$ Shore hardness wire insulation $45 \pm 5 \text{ Nore D}$ Material properties wire insulationlead-free, cadmium-free, CFC-free, silicone-freeAmount strands (wire)14Diameter of single wires $0.15 \text{ mm}$ Conductor rosssection (wire) $0.25 \text{ mm}^2$ Material conductor wireStranded copper wire, bareConductor type (wire)Strand does 5Nominal voltage AC max. $300 V$ Current load capacity (standard)to DIN VDE 0298-4Current load capacity (wire - wire) $2 \text{ kV } @ 60 \text{ s}$ Power frequency withstand voltage (wire - vire) $2 \text{ kV } @ 60 \text{ s}$ Min. operating temperature (static) $-30  ^{\circ}C$   |  |  |
| Outer-diameter (jacket)4,5 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPVCAmount wires3Outer diameter insulation1,25 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation45 ± 5 Shore DMaterial properties wire insulationgood machinabilityIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, silicone-freeAmount strands (wire)14Diameter of single wires0,15 mmConductor crossection (wire)0,25 mm²Material conductor wireStranded copper wire, bareConductor crossection (wire)Stranded copper wire, bareConductor strands (strander)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity (wire)2 kV @ 60 sPower frequency withstand voltage (wire - acket)- 2 kV @ 60 sMaterial to noperating temperature (static)- 30 °C  |  |  |
| Tolerance outer diameter (sheath)± 5 %Material wire insulationPVCAmount wires3Outer diameter insulation1,25 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation45 ± 5 Shore DMaterial properties wire insulationgood machinabilityIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, silicone-freeAmount strands (wire)14Diameter of single wires0,15 mmConductor crosssection (wire)0,25 mm²Material conductor wireStranded copper wire, bareConductor good machinabilityStranded copper wire, bareConductor strands (strander)0,15 mmConductor wireStranded copper wire, bareConductor wireStranded copper wire, bareConductor wireStranded copper wire, bareConductor type (wire)Strand class 5Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4,5 AElectrical resistance line constant wire79 Ω/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sPower frequency withstand voltage (wire - action standard)2 kV @ 60 sMaterial to operating temperature (static)-30 °C   |  |  |
| Material wire insulationPVCAmount wires3Outer diameter insulation1,25 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation45 ± 5 Shore DMaterial properties wire insulationgood machinabilityIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, silicone-freeAmount strands (wire)14Diameter of single wires0,15 mmConductor crosssection (wire)0,25 mm²Material conductor wireStranded copper wire, bareConductor type (wire)Stranded copper wire, bareConductor type (wire)00 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4,5 AElectrical resistance line constant wire2 kV @ 60 sAc withstand voltage (wire - inc)2 kV @ 60 sMover frequency withstand voltage (wire - inc)-30 °CAc with stand voltage (wire - inc)2 kV @ 60 s  |  | ·  |
| Amount wires3Amount wires3Outer diameter insulation1,25 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation45 ± 5 Shore DMaterial properties wire insulationgood machinabilityIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, silicone-freeAmount strands (wire)14Diameter of single wires0,15 mmConductor crosssection (wire)0,25 mm²Material conductor wireStranded copper wire, bareConductor type (wire)Strand class 5Nomial voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (wire - wire)2 kV @ 60 sPower frequency withstand voltage (wire - jacket)-30 °CMin. operating temperature (static)-30 °C  |  |  |
| Outer diameter insulation1,25 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulationgood machinabilityIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, silicone-freeAmount strands (wire)14Diameter of single wires0,15 mmConductor crosssection (wire)0,25 mm²Material conductor wireStranded copper wire, bareConductor type (wire)Stranded copper wire, bareConductor type (wire)Strand class 5Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (wire - wire)2 kV @ 60 sPower frequency withstand voltage (wire - jacket)-26 0 sPower frequency withstand voltage (wire - jacket)-30 °C  |  |  |
| Outer diameter tolerance core insulation   ± 5 %     Shore hardness wire insulation   good machinability     Ingredient freeness wire insulation   lead-free, cadmium-free, CFC-free, silicone-free     Amount strands (wire)   14     Diameter of single wires   0,15 mm     Conductor crosssection (wire)   0,25 mm²     Material conductor wire   Stranded copper wire, bare     Conductor type (wire)   Strand class 5     Nominal voltage AC max.   300 V     Current load capacity min. wire   4,5 A     Electrical resistance line constant wire   79 Ω/km @ 20 °C     AC withstand voltage (wire - wire)   2 kV @ 60 s     Power frequency withstand voltage (wire - jacket)   -30 °C   |  |  |
| Shore hardness wire insulation45 ± 5 Shore DMaterial properties wire insulationgood machinabilityIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, silicone-freeAmount strands (wire)14Diameter of single wires0,15 mmConductor crosssection (wire)0,25 mm²Material conductor wireStranded copper wire, bareConductor type (wire)Stranded copper wire, bareConductor type (wire)Strand class 5Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4,5 AElectrical resistance line constant wire79 Ω/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sPower frequency withstand voltage (wire - jacket)-30 °C  |  |  |
| Material properties wire insulationgood machinabilityIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, silicone-freeAmount strands (wire)14Diameter of single wires0,15 mmConductor crosssection (wire)0,25 mm²Material conductor wireStranded copper wire, bareConductor type (wire)Strand class 5Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4,5 AElectrical resistance line constant wire79 Ω/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sPower frequency withstand voltage (wire - jacket)-30 °C   |  |  |
| Ingredient freeness wire insulationlead-free, cadmium-free, CFC-free, silicone-freeAmount strands (wire)14Diameter of single wires0,15 mmConductor crosssection (wire)0,25 mm²Material conductor wireStranded copper wire, bareConductor type (wire)Strand class 5Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4,5 AElectrical resistance line constant wire79 Ω/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sPower frequency withstand voltage (wire -<br>jacket)2 kV @ 60 sMin. operating temperature (static)-30 °C   |  |  |
| Amount strands (wire)14Diameter of single wires0,15 mmConductor crosssection (wire)0,25 mm²Material conductor wireStranded copper wire, bareConductor type (wire)Strand class 5Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4,5 AElectrical resistance line constant wire79 Ω/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sPower frequency withstand voltage (wire - jacket)-30 °C   |  |  |
| Diameter of single wires0,15 mmConductor crosssection (wire)0,25 mm²Material conductor wireStranded copper wire, bareConductor type (wire)Strand class 5Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4,5 AElectrical resistance line constant wire79 Ω/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sPower frequency withstand voltage (wire -<br>jacket)2 kV @ 60 sMin. operating temperature (static)-30 °C   | -  |  |
| Conductor crosssection (wire)0,25 mm²Material conductor wireStranded copper wire, bareConductor type (wire)Strand class 5Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4,5 AElectrical resistance line constant wire79 Ω/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sPower frequency withstand voltage (wire -<br>jacket)-30 °C  |  |  |
| Material conductor wireStranded copper wire, bareConductor type (wire)Strand class 5Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4,5 AElectrical resistance line constant wire79 Ω/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sPower frequency withstand voltage (wire -<br>jacket)2 kV @ 60 sMin. operating temperature (static)-30 °C   | -  |  |
| Conductor type (wire)Strand class 5Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4,5 AElectrical resistance line constant wire79 Ω/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sPower frequency withstand voltage (wire -<br>jacket)2 kV @ 60 sMin. operating temperature (static)-30 °C  |  | •  |
| Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4,5 AElectrical resistance line constant wire79 Ω/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sPower frequency withstand voltage (wire -<br>jacket)2 kV @ 60 sMin. operating temperature (static)-30 °C   |  |  |
| Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4,5 AElectrical resistance line constant wire79 Ω/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sPower frequency withstand voltage (wire -<br>jacket)2 kV @ 60 sMin. operating temperature (static)-30 °C   |  |  |
| Current load capacity min. wire   4,5 A     Electrical resistance line constant wire   79 Ω/km @ 20 °C     AC withstand voltage (wire - wire)   2 kV @ 60 s     Power frequency withstand voltage (wire - jacket)   2 kV @ 60 s     Min. operating temperature (static)   -30 °C  |  |  |
| Electrical resistance line constant wire   79 Ω/km @ 20 °C     AC withstand voltage (wire - wire)   2 kV @ 60 s     Power frequency withstand voltage (wire - jacket)   2 kV @ 60 s     Min. operating temperature (static)   -30 °C  |  |  |
| AC withstand voltage (wire - wire)   2 kV @ 60 s     Power frequency withstand voltage (wire - jacket)   2 kV @ 60 s     Min. operating temperature (static)   -30 °C   |  |  |
| Power frequency withstand voltage (wire - jacket)   2 kV @ 60 s     Min. operating temperature (static)   -30 °C  |  |  |
| jacket) 2 kv @ 60 S   Min. operating temperature (static) -30 °C  |  |  |
|   | jacket)                                  |  |
| Max. operating temperature (fixed) 80 °C  |  |  |
|   | Max. operating temperature (fixed)       | 80 °C  |

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



| Operating temperature min. (dynamic) | -5 °C  |
|--------------------------------------|--|
| Operating temperature max. (dynamic) | 80 °C  |
| UV resistance                        | DIN EN ISO 4892-2 A                                  |
| Flame resistance                     | UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2  |
| 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                                  |

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