

## RJ45 Push Pull male 45° with cable AIDA

PUR 1x4xAWG22 shielded gn UL/CSA+drag ch. 1.5m

Product fulfills requirements according to UN/ECE R118

**Ethernet CAT5** 

Male straight

RJ45PP, 4-pole

shielded

Push Pull

Further cable lengths on request.

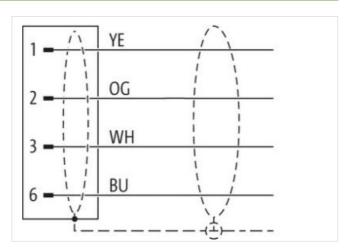
Plastic housings with good resistance against chemicals and oils.

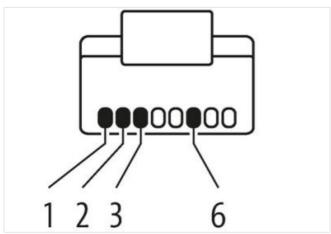
The resistance to aggressive media should be individually tested for your application. Further details on request.

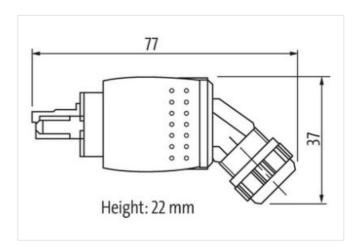
## **Link to Product**

## Illustration









Product may differ from Image















Cable length

1,5 m



stay connected

| Side 1  |  |
|---|--|
| Family construction form  | RJ45   |
| Commercial data   |  |
|   | 07004004   |
| ECLASS-6.0  | 27061801   |
| ECLASS-6.1  | 27060307   |
| ECLASS-7.0<br>ECLASS-8.0  | 27060307<br>27060307   |
| ECLASS-9.0  | 27060307   |
| ECLASS-10.1   | 27060307   |
| ECLASS-11.1   | 27060307   |
| ECLASS-12.0   | 27060307   |
| ETIM-5.0  | EC002599   |
| customs tariff number   | 85444210   |
| GTIN  | 4048879375009  |
| Packaging unit  | 1  |
| Electrical data   Supply  |  |
|   | 60 V   |
| Operating voltage DC max.  Operating voltage DC max. (UL-listed)          | 60 V<br>30 V   |
| Operating voltage DC max. (UL-listed)  Current operating per contact max. | 30 V<br>1,76 A   |
|   | 1,100  |
| Industrial communication  |  |
| Transfer parameters   | CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)   |
| Data transmission rate max.   | 100 MBit/s   |
| Industrial communication   Ethernet fund                                  | ctionality   |
| duplex  | Full duplex  |
| Device protection   Electrical  |  |
| Degree of protection (EN IEC 60529)                                       | IP65, IP67   |
| Additional condition protection degree                                    | inserted, screwed  |
| Pollution Degree  | 3  |
| Rated surge voltage   | 1 kV   |
| Material group (IEC 60664-1)  | 1  |
| Mechanical data   |  |
| Contour for corrugated hose   | without  |
| Mechanical data   Material data   |  |
| •   | Nistrated  |
| Coating locking  Locking material   | Nickeled  Zinc die-casting   |
|   | Zinc die-casting   |
| Mechanical data   Mounting data   |  |
| Looking techniques  | Push Pull  |
| Environmental characteristics   Climatic                                  |  |
| Operating temperature min.  | -25 °C   |
| Operating temperature max.  | 85 °C  |
| Additional condition temperature range                                    | depending on cable quality   |
| Important installation notes  |  |
| Note on strain relief   | Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  |
| Note on bending radius  | Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. |
| Installation   Cable  |  |
| wire arrangement  | white, yellow, blue, orange  |
|   | , 7  |
|   | 796  |
| Cable identification  Jacket Color  | 796 green  |

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: 2024-05-19



## stay connected

| Stranding   | Amount stranding                          | 1  |
|---|---|--|
| Cable shedring (coverage)         85 %           Banding         Fleece, Foil           Filer         yes           wire arrangement         white, yellow, blue, orange           Cable weight         69.3 gm           Material placket         PUR           Shore hardness jacked         98 Shore A           Fleedom from ingredients (jacked)         69.5 mc           Outer -diameter (jacked)         6,7 mm           Tolerance outer diameter (sheath)         5 %           Material inner jacket         FRNC           Color (inner jacket)         7 FRNC           Color (inner jacket)         7 FRNC           Color (inner jacket)         7 FR           Color (inner jacket)         7 FRNC           Color (inner jacket)         1 4 mm           Outer diameter shallation         1 4 mm           Outer diameter insulation         1 4 mm           Outer diameter insulation         5 %           Shore hardness wire insulation         1 5 %           Damater of single wire         22 AWG           Conductor orassection (wire)         22 AWG           Conductor orassection (wire)         22 AWG           Conductor orassection (wire)         22 AWG           Conductor wire (acces   |   | 4 wires around Core filler twisted                   |
| Cable shedring (coverage)         85 %           Banding         Fleece, Foil           Filer         yes           wire arrangement         white, yellow, blue, orange           Cable weight         69.3 gm           Material placket         PUR           Shore hardness jacked         98 Shore A           Fleedom from ingredients (jacked)         69.5 mc           Outer -diameter (jacked)         6,7 mm           Tolerance outer diameter (sheath)         5 %           Material inner jacket         FRNC           Color (inner jacket)         7 FRNC           Color (inner jacket)         7 FRNC           Color (inner jacket)         7 FR           Color (inner jacket)         7 FRNC           Color (inner jacket)         1 4 mm           Outer diameter shallation         1 4 mm           Outer diameter insulation         1 4 mm           Outer diameter insulation         5 %           Shore hardness wire insulation         1 5 %           Damater of single wire         22 AWG           Conductor orassection (wire)         22 AWG           Conductor orassection (wire)         22 AWG           Conductor orassection (wire)         22 AWG           Conductor wire (acces   | Cable shielding (type)                    | copper braid, tinned                                 |
| Fillow   yes   West arrangement   West   yes   West arrangement   West   yes   West arrangement   West   yes   West  |   |  |
| Filter  |   | Fleece. Foil   |
| wire arrangement         white, yellow, blue, orange           Cable weight         59.3 g/m           Material jacket         PUR           Shore hardness jacket         89 Shore A           Freedem from ingediants (jacket)         16 Are read and the read of the properties of the propert  |   | yes  |
| Cable weigh         69.3 g/m           Material packet         PUR           Freedom from ingredientis (packet)         89 Shror A           Freedom from ingredientis (packet)         lead-free, cadmium-free, CFC-free, halogen-free, allicone-free           Outer-diameter (packet)         6,7 mm           Material inner jacket         FRNC           Color (inner jacket)         natur           Material inner jacket         PERNC           Color (inner jacket)         natur           Material vire insulation         4           Amount vivos         4           Amount vivos         4           Outer diameter tolerance core insulation         1,4 mm           Outer diameter tolerance core insulation         65 Shore D           Ingredient freeness wire insulation         65 Shore D           Ingredient freeness wire insulation         16 Shore D           Ingredient freeness wire insulation         22 AWG           Conductor crosssection (wire)         22 AWG           Current load capacity (standard)         10 DIN VDE 0288 4           Current load capacity (standard)  |   | •  |
| Material jacket         PUR           Shore hardness jacket         89 Shore A           Freedom from ingredients (jacket)         6,7 mm           Tolerance outer diameter (jacket)         6,7 mm           Tolerance outer diameter (jacket)         FRNC           Color (inner jacket)         natur           Material inner jacket         FRNC           Color (inner jacket)         natur           Material wire insulation         PE           Annount wires         4           Oluser diameter insulation         45 %           Shore hardness wire insulation         65 Shore D           Ingredient freeness wire insulation         65 Shore D           Ingredient freeness wire insulation         18 5 %           Shore hardness wire insulation         25 Shore D           Ingredient freeness wire insulation         18 defence (PC free, halogen-free)           Anount stands (wire)         22 AWG           Conductor crossection (wire)         22 AWG           Conductor crossection (wire)         22 AWG           Coursell cade apacity min. wire  |   |  |
| Shore hardness jacket         89 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Cluer-diameter (jacket)         6,7 mm           Tolerance outer diameter (sheath)         ± 5 %           Material Inner Jacket         FRNC           Color (inner jacket)         natur           Material were insulation         PE           Amount wires         4           Outer diameter insulation         1,4 mm           Outer diameter insulation         5 %           Shore hardness wire insulation         55 Shore D           Ingredient freeness wire insulation         65 Shore D           Ingredient freeness wire insulation         7           Amount strands (viriu)         7           Tolerance of single wires         22 AWG           Conductor cresssaction (virie)         22 AWG           Conductor cresssaction (virie)         22 AWG           Material conductor wire         Stranded copper wire, bare           Nominal voltage AC max.         300 V           Current load capacity (insurance)         4.8 A           Characteristic impedance         100 Ω ± 15 % @ 100 MHz           Electrical capacity ine constant (wire vire)         50 Q M © S           Electrica  |   | <del>-</del>   |
| Freedom from Ingredients (jacket)   lead-free, cadmium-free, CFC-free, halogen-free   Milcone-free  |   |  |
| Outer-diameter (jacket)         6,7 mm           Tolerance outer diameter (sheath)         ± 5 %           Material inner jacket         FINIC           Color (inner jacket)         natur           Material wire insulation         PE           Amount wires         4           Outer diameter insulation         1,4 mm           Outer diameter toterance core insulation         ± 5 %           Shore hardness wire insulation         65 Shore 0           Ingredient freeness wire insulation         65 Shore 0           Ingredient freeness wire insulation         lead-free, CFC-free, halogen-free           Amount strands (wire)         7           Damater of single wires         22 AWG           Conductor crosssection (wire)         22 AWG           Conductor crosssection (wire)         22 AWG           Conductor crosssection (wire)         22 AWG           Corrent load capacity (init more)         2 Faraded copper wire, bare           Current load capacity (init more)         4.8 A           Current load capacity (init more)         4.8 A           Current load capacity (init more)         2 EV Ø 60 s           Electrical resistance line constant wire         55 Ωkm @ 20 °C           AC withstand voltage (wire - wire)         2 kV Ø 60 s  |   |  |
| Tolerance outer diameter (sheath) ± 5 % Material inner jacket FRNC  Material inner jacket) natur  Material wire insulation PE  Amount wires 4  Mount wires 4  Amount wires 4  Amount wires 4  Amount wires 5 %  Mount in a minur insulation 1.4 mm  Outer diameter insulation 1.5 %  Shore hardness wire insulation 1.4 mm  Outer diameter tolerance core insulation 1.5 %  Shore hardness wire insulation 1.4 mm  Outer diameter of learnes or ore insulation 1.5 %  Shore hardness wire insulation 1.4 mm  Outer diameter of learness wire insulation 1.4 mm  Outer diameter of learness wire insulation 1.5 %  Shore hardness wire insulation 1.4 mm  Outer diameter of learness wire learn  |   |  |
| Material inner jacket         FRNC           Color (inner jacket)         natur           Material wire insulation         PE           Amount wires         4           Outer diameter insulation         1,4 mm           Outer diameter belavance core insulation         65 %hore           Other diameter insulation         65 Shore D           Ingredient freeness wire insulation         lead-free, CFC-free, halogen-free           Amount strands (wire)         7           Diameter of single wires         22 AWG           Conductor crosssection (wire)         22 AWG           Material conductor wire         Stranded opper wire, bare           Nominal voitage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4,8 A           Characteristic impedance         100 0 ± 15 % 0 100 MHz           Electrical resistance line constant wire         50 Jkm @ 20 °C           AC withstand voitage (wire - wire)         2 kV @ 60 s           Electrical resistance in wire - wire         2 kV @ 60 s           Solation resistance         5000 MCx km           Min. operating temperature (static)         40 °C           Max. operating temperature (static)         40 °C  |   | ·  |
| Color (inner jacket)         natur           Material wire insulation         PE           Amount wires         4           Outer diameter insulation         1,4 mm           Outer diameter bisulation         5 %           Shore hardness wire insulation         65 Shore D           Ingredient freeness wire insulation         65 Shore D           Ingredient freeness wire insulation         65 Shore D           Amount strands (wire)         7           Diameter of single wires         22 AWG           Conductor crosssection (wire)         22 AWG           Material conductor wire         Stranded copper wire, bare           Nominal voltage AC max.         300 V           Current load capacity (standard)         10 DIN VDE 0298-4           Current load capacity min. wire         4,8 A           Characteristic impedance         100 Ω ± 15 % @ 100 MHz           Electrical capacity line constant (wire - wire)         2 kW @ 60 s           Electrical capacity line constant (wire - wire)         2 kW @ 60 s           Electrical capacity line constant (wire - wire)         2 kW @ 60 s           Electrical capacity line constant (wire - wire)         2 kW @ 60 s           Electrical capacity line constant (wire - wire)         2 kW @ 60 s           Solution resistance   |   |  |
| Material wire insulation         PE           Amount wires         4           Outer diameter insulation         1.4 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         65 Shore D           Ingredient freeness wire insulation         162 Shore D           Ingredient freeness wire insulation         182 Shore D           Ingredient freeness wire insulation         182 MG           Amount strands (wire)         7           Diameter of single wires         22 AWG           Conductor crosssection (wire)         22 AWG           Material conductor wire         Stranded copper wire, bare           Nominal voltage AC max.         300 V           Current load capacity (standard)         10 DIN VDE 0298-4           Current load capacity min. wire         4.8 A           Characteristic impedance         100 Q ± 15 % @ 100 MHz           Electrical resistance line constant (wire wire)         25 N/m @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Electrical capacity line constant (wire - wire)         2 kV @ 60 s           Isolation resistance         5000 MC x km           Min. operating temperature (statio)         40 °C           Max. operating temperature (statio)  |   |  |
| Amount wires         4           Outer diameter insulation         1,4 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         65 Shore D           Ingredient freeness wire insulation         lead-free, CFC-free, halogen-free           Amount strands (wire)         7           Diameter of single wires         22 AWG           Conductor crosssection (wire)         22 AWG           Material conductor wire         Stranded copper wire, bare           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4,8 A           Characteristic impedance         100 Ω ± 15 % @ 100 MHz           Electrical capacity line constant (wire - wire)         2 kV @ 60 s           Electrical capacity wire vire)         2 kV @ 60 s           Electrical capacity line constant (wire - wire)         50000 pF/km           Power freequency withstand voltage (wire - shield)         2 kV @ 60 s           Slociation resistance         5000 MΩ × km           Min. operating temperature (istalic)         -40 °C           Max. operating temperature (istalic)         -40 °C           Operating temperature mix. (dynamic)         70 °C <td< td=""><td></td><td></td></td<>   |   |  |
| Outer diameter insulation         1,4 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         65 Shore D           Ingredient freeness wire insulation         lead-free, CFC-free, halogen-free           Amount strands (wire)         7           Diameter of single wires         22 AWG           Conductor crosssection (wire)         22 AWG           Material conductor wire         Stranded copper wire, bare           Nominal voltage AC max         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4.8 A           Characteristic impedance         100 Ω ± 15 % @ 100 MHz           Electrical resistance line constant wire         55 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Electrical capacity line constant (wire - wire)         50000 pF/km           Power frequency withstand voltage (wire - shield)         2 kV @ 60 s           Isolation resistance         5000 MΩ × km           Min. operating temperature (static)         -40 °C           Max. operating temperature (static)         -30 °C           Operating temperature max. (dynamic)         70 °C           Plame resistance         Good, application-related testing <td></td> <td></td>   |   |  |
| Outer diameter tolerance core insulation $\pm 5 \%$ Shore hardness wire insulation 66 Shore D Ingredient freeness wire insulation lead-free, CFC-free, halogen-free Amount strands (wire) 7 Diameter of single wires 22 AWG Conductor crosssection (wire) 22 AWG Amount of strands (wire) 22 AWG Conductor wire Stranded copper wire, bare Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) 25 $\%$ ( $\%$ ( $\%$ 00 S Electrical resistance line constant wire $\%$ 2 $\%$ ( $\%$ 00 S Electrical resistance line constant wire $\%$ 2 $\%$ ( $\%$ 00 S Electrical capacity line constant (wire - wire) 2 $\%$ 00 S Electrical capacity line constant (wire - wire) 50000 pF/km Power frequency withstand voltage (wire - \$\frac{1}{2}\$  \$\phi\$ \text{  |   |  |
| Shore hardness wire insulation         65 Shore D           Ingredient freeness wire insulation         lead-free, CFC-free, halogen-free           Amount strands (wire)         7           Diameter of single wires         22 AWG           Conductor crosssection (wire)         22 AWG           Material conductor wire         Stranded copper wire, bare           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4,8 A           Characteristic impedance         100 Ω ± 15 % @ 100 MHz           Electrical resistance line constant wire         55 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Electrical capacity line constant (wire - wire)         2 kV @ 60 s           Electrical resistance (with stand voltage (wire - shield)         2 kV @ 60 s           AC withstand voltage (wire - shield)         2 kV @ 60 s           Isolation resistance         5000 MΩ × km           Min. operating temperature (fixed)         80 °C           Operating temperature max. (dynamic)         70 °C           Claracting temperature max. (dynamic)         70 °C           Flame resistance         [EC 60332-2-2   JL 1581 § 1090   UL 1581 § 1100 FT2           chemical resistance  |   |  |
| Ingredient freeness wire insulation         lead-free, CFC-free, halogen-free           Amount strands (wire)         7           Diameter of single wires         22 AWG           Conductor crosssection (wire)         22 AWG           Material conductor wire         Stranded copper wire, bare           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4,8 A           Characteristic impedance         100 Ω ± 15 % @ 100 MHz           Electrical resistance line constant wire         55 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Electrical capacity line constant (wire - wire)         50000 pF/km           Power frequency withstand voltage (wire - shiel)         2 kV @ 60 s           Electrical capacity wine vine stature         5000 MΩ × km           Min. operating temperature (static)         -40 °C           Max. operating temperature (fixed)         80 °C           Operating temperature max. (dynamic)         70 °C           Flame resistance         Good, application-related testing           Charmical resistance         Good, application-related testing           Gasoline resistance         Din N EN 68811-404   Good, application-related testing  |   |  |
| Amount strands (wire)         7           Diameter of single wires         22 AWG           Conductor crosssection (wire)         22 AWG           Material conductor wire         Stranded copper wire, bare           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standard)         100 Ω± 15 % @ 100 MHz           Electrical resistance line constant wire         4,8 A           Characteristic impedance         100 Ω± 15 % @ 100 MHz           Electrical resistance line constant (wire - wire)         2 kV @ 60 s           Electrical capacity line constant (wire - wire)         2 kV @ 60 s           Electrical capacity (ine constant (wire - wire)         2 kV @ 60 s           Electrical capacity line constant (wire - wire)         2 kV @ 60 s           Electrical capacity (wire - shield)         2 kV @ 60 s           Solotation resistance         5000 MΩ x km           Min. operating temperature (static)         -40 °C           Max. operating temperature (fixed)         80 °C           Operating temperature min. (dynamic)         -30 °C           Circanting temperature min. (dynamic)         -30 °C           Chemical resistance         IEC 60332-2-2 [ UL 1581 § 1090   UL 1581 § 1100 FT2           chemical resistan   |   |  |
| Diameter of single wires         22 AWG           Conductor crosssection (wire)         22 AWG           Material conductor wire         Stranded copper wire, bare           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4.8 A           Characteristic impedance         100 Ω ± 15 % @ 100 MHz           Electrical resistance line constant wire         55 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         50000 pF/km           Power frequency withstand voltage (wire - shield)         2 kV @ 60 s           Isolation resistance         5000 MΩ × km           Min. operating temperature (static)         40 °C           Max. operating temperature (static)         40 °C           Max. operating temperature (fixed)         80 °C           Operating temperature min. (dynamic)         70 °C           Flame resistance         IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2           chemical resistance         Good, application-related testing           Gasoline resistance         DIN EN 60811-404   Good, application-related testing           Bending radius (fixed)         5 × Outer diameter           Bending radius (dynamic)         12 × Outer diameter           No. of bending cycles (   |   |  |
| Conductor crosssection (wire)         22 AWG           Material conductor wire         Stranded copper wire, bare           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4,8 A           Characteristic impedance         100 Ω ± 15 % @ 100 MHz           Electrical resistance line constant wire         55 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Electrical capacity line constant (wire - wire)         50000 pF/km           Power frequency withstand voltage (wire - jacket)         2 kV @ 60 s           AC withstand voltage (wire - shield)         2 kV @ 60 s           Isolation resistance         5000 MΩ × km           Min. operating temperature (fixed)         80 °C           Operating temperature min. (dynamic)         -30 °C           Operating temperature max. (dynamic)         70 °C           Flame resistance         IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2           hemical resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Gil resistance         DIN EN 60811-404   Good, application-related testing           Bending radius (fixed)         5 × Outer diameter      <  | . ,                                       |  |
| Material conductor wire         Stranded copper wire, bare           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4,8 A           Characteristic impedance         100 Ω ± 15 % @ 100 MHz           Electrical resistance line constant wire         55 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Electrical capacity line constant (wire - wire)         50000 pF/km           Power frequency withstand voltage (wire - shield)         2 kV @ 60 s           AC withstand voltage (wire - shield)         2 kV @ 60 s           Isolation resistance         5000 MΩ × km           Min. operating temperature (static)         40 °C           Max. operating temperature (fixed)         80 °C           Operating temperature min. (dynamic)         -30 °C           Operating temperature max. (dynamic)         70 °C           Flame resistance         IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2           chemical resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Oil resistance         DIN EN 60811-404   Good, application-related testing           Bending radius (fixed)         5 × Outer diameter   |   |  |
| Nominal voltage AC max. 300 V  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4,8 A  Characteristic impedance 100 $\Omega$ ± 15 % @ 100 MHz  Electrical resistance line constant wire 55 $\Omega$ /km @ 20 °C  AC withstand voltage (wire - wire) 2 kV @ 60 s  Electrical capacity line constant (wire - wire) 50000 pFi/km  Power frequency withstand voltage (wire - shield) 2 kV @ 60 s  Isolation resistance 5000 M $\Omega$ × km  Min. operating temperature (static) 40 °C  Max. operating temperature (fixed) 80 °C  Operating temperature min. (dynamic) -30 °C  Operating temperature max. (dynamic) 70 °C  Flame resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Gasoline resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 5 × Outer diameter  Bending radius (dynamic) 12 × Outer diameter  Bending radius (dynamic) 12 × Outer diameter  Bending radius (dynamic) 12 × Outer diameter  Traversing distance (C-track) 5 m @ 25 °C  Traversing distance (C-track) 3,3 m/s @ 25 °C  Travel speed (C-track) 1 Mio. 25 °C   |   |  |
| Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4,8 A  Characteristic impedance 100 $\Omega$ ± 15 % @ 100 MHz  Electrical resistance line constant wire 55 $\Omega$ /km @ 20 °C  AC withstand voltage (wire - wire) 2 kV @ 60 s  Electrical capacity line constant (wire vire) 50000 pF/km  Power frequency withstand voltage (wire - shield) 2 kV @ 60 s  Electrical resistance S000 M $\Omega$ × km  Min. operating temperature (static) -40 °C  Max. operating temperature (fixed) 80 °C  Operating temperature min. (dynamic) -30 °C  Operating temperature max. (dynamic) 70 °C  Flame resistance EC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2  chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Gasoline resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 5 × Outer diameter  Bending radius (dynamic) 12 × Outer diameter  Bending radius (dynamic) 5 m @ 25 °C  Traversing distance (C-track) 3 Mio. @ 25 °C  Traversing distance (C-track) 3.3 m/s @ 25 °C  Travel speed (C-track) 3.4 m/s 25 °C  No. of torsion cycles 1 Mio. 25 °C   |   |  |
| Current load capacity min. wire 4.8 A  Characteristic impedance $100 \Omega \pm 15 \% @ 100  \text{MHz}$ Electrical resistance line constant wire $55  \Omega / \text{km} @ 20  ^{\circ} \text{C}$ AC withstand voltage (wire - wire) $2  \text{kV} @ 60  \text{s}$ Electrical capacity line constant (wire - wire) $50000  \text{pF/km}$ Power frequency withstand voltage (wire - $\frac{1}{2}  \text{kV} @ 60  \text{s}$ AC withstand voltage (wire - shield) $2  \text{kV} @ 60  \text{s}$ Isolation resistance $5000  \text{M} \Omega \times \text{km}$ Min. operating temperature (static) $40  ^{\circ} \text{C}$ Max. operating temperature (fixed) $80  ^{\circ} \text{C}$ Operating temperature min. (dynamic) $70  ^{\circ} \text{C}$ Flame resistance $100  \text{kC}  \text{c}$ Good, application-related testing $100  \text{kC}  \text{c}$ Gasoline resistance $100  \text{kC}  \text{c}$ Good, application-related testing $100  \text{kC}  \text{c}$ Oil resistance $100  \text{kC}  \text{c}$ DIN EN 6081-1404   Good, application-related testing $100  \text{kC}  \text{c}$ Traversing distance (C-track) $100  \text{kC}  \text{c}$ Traversing distance (C-track) $100  \text{kC}  \text{c}$ Traver speed (C-track) $100  \text{kC}  \text{c}$ Traver speed (C-track) $100  \text{kC}  \text{c}$ Traversing constance (Track) $100  \text{kC}  \text{c}$ Traversing constance (Track) $100  \text{kC}  \text{c}$ Traversing constance (Track) $100  \text{kC}  \text{c}$ Traversing constance (C-track) $100  \text{kC}  \text{c}$ Traversing distance (C-track) $100  \text{kC}  \text{c}$ Traversing constance (C-track) $100  \text{kC}  \text{c}$  |   |  |
| Characteristic impedance $100 \Omega \pm 15 \% 0 100  \mathrm{MHz}$ Electrical resistance line constant wire $55  \Omega \mathrm{km}  02  ^{\circ} \mathrm{C}$ AC withstand voltage (wire - wire) $2  \mathrm{kV}  060  \mathrm{s}$ Electrical capacity line constant (wire - wire) $50000  \mathrm{pF/km}$ Power frequency withstand voltage (wire - jacket) $2  \mathrm{kV}  060  \mathrm{s}$ AC withstand voltage (wire - shield) $2  \mathrm{kV}  060  \mathrm{s}$ Isolation resistance $5000  \mathrm{M\Omega}  \mathrm{km}$ Min. operating temperature (static) $40  ^{\circ} \mathrm{C}$ Max. operating temperature (fixed) $80  ^{\circ} \mathrm{C}$ Operating temperature min. (dynamic) $40  ^{\circ} \mathrm{C}$ Operating temperature max. (dynamic) $40  ^{\circ} \mathrm{C}$ Flame resistance $40  ^{\circ} \mathrm{C}$ Gasoline resistance $40  ^{\circ} \mathrm{C}$ Bending radius (fixed) $40  ^{\circ} \mathrm{C}$ Bending radius (fixed) $40  ^{\circ} \mathrm{C}$ Bending radius (fixed) $40  ^{\circ} \mathrm{C}$ Traversing distance (C-track) $40  ^{\circ} \mathrm{C}$  |   |  |
| Electrical resistance line constant wire 55 \( \Omega \) \( \text{ 60 s} \)  Electrical capacity line constant (wire - wire) 50000 pF/km  Power frequency withstand voltage (wire - jacket) 2 kV \( \omega \) 60 s  Electrical capacity line constant (wire - wire) 50000 pF/km  Power frequency withstand voltage (wire - jacket) 2 kV \( \omega \) 60 s  Isolation resistance 5000 \( \Omega \) \( \omega \) km  Min. operating temperature (static) -40 \( \omega \) C  Max. operating temperature (fixed) 80 \( \omega \) C  Operating temperature min. (dynamic) -30 \( \omega \) C  Operating temperature max. (dynamic) 70 \( \omega \) C  Flame resistance IEC 60332-2-2   UL 1581 \( \green \) 109   UL 1581 \( \green \) 1100 FT2  chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Gil resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 12 x Outer diameter  No. of bending cycles (C-track) 3 Mio. \( \omega \) 25 \( \omega \) C  Traver sing distance (C-track) 5 m \( \omega \) 25 \( \omega \) C  Traver speed (C-track) 3,3 m/s \( \omega \) 25 \( \omega \) C  No. of torsion cycles 1 Mio. 25 \( \omega \) C  |   |  |
| AC withstand voltage (wire - wire) $2 \text{ kV } @ 60 \text{ s}$ Electrical capacity line constant (wire - wire) $50000 \text{ pF/km}$ Power frequency withstand voltage (wire - jacket) $2 \text{ kV } @ 60 \text{ s}$ AC withstand voltage (wire - shield) $2 \text{ kV } @ 60 \text{ s}$ Isolation resistance $5000 \text{ M}\Omega \times \text{km}$ Min. operating temperature (static) $-40 \text{ °C}$ Max. operating temperature (fixed) $80 \text{ °C}$ Operating temperature min. (dynamic) $-30 \text{ °C}$ Operating temperature max. (dynamic) $-30 \text{ °C}$ Operating temperature max. (dynamic) $-30 \text{ °C}$ Flame resistance $-30000 \text{ m} \times \text{m} \times $ |   |  |
| Electrical capacity line constant (wire - wire) 50000 pF/km  Power frequency withstand voltage (wire - jacket) 2 kV @ 60 s  AC withstand voltage (wire - shield) 2 kV @ 60 s  Isolation resistance 5000 MΩ × km  Min. operating temperature (static) -40 °C  Max. operating temperature (fixed) 80 °C  Operating temperature min. (dynamic) -30 °C  Operating temperature max. (dynamic) 70 °C  Flame resistance IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2  chemical resistance Good, application-related testing  Gasoline resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 12 x Outer diameter  No. of bending cycles (C-track) 3 Mio. @ 25 °C  Traversing distance (C-track) 3,3 m/s @ 25 °C  Travel speed (C-track) 3,3 m/s @ 25 °C  Travel speed (C-track) 1 Mio. 25 °C  | AC withstand voltage (wire - wire)        | <del>-</del>   |
| Power frequency withstand voltage (wire - jacket)       2 kV @ 60 s         AC withstand voltage (wire - shield)       2 kV @ 60 s         Isolation resistance       5000 MΩ × km         Min. operating temperature (static)       -40 °C         Max. operating temperature (fixed)       80 °C         Operating temperature min. (dynamic)       -30 °C         Operating temperature max. (dynamic)       70 °C         Flame resistance       IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2         chemical resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing         Oil resistance       DIN EN 60811-404   Good, application-related testing         Bending radius (fixed)       5 x Outer diameter         Bending radius (dynamic)       12 x Outer diameter         No. of bending cycles (C-track)       3 Mio. @ 25 °C         Traversing distance (C-track)       5 m @ 25 °C         Travel speed (C-track)       3.3 m/s @ 25 °C         No. of torsion cycles       1 Mio. 25 °C  |   |  |
| AC withstand voltage (wire - shield)  2 kV @ 60 s  Isolation resistance  5000 MΩ × km  Min. operating temperature (static)  40 °C  Max. operating temperature (fixed)  80 °C  Operating temperature min. (dynamic)  70 °C  Operating temperature max. (dynamic)  70 °C  Flame resistance  IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2  chemical resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing  Oil resistance  DIN EN 60811-404   Good, application-related testing  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic)  12 x Outer diameter  No. of bending cycles (C-track)  3 Mio. @ 25 °C  Traversing distance (C-track)  5 m @ 25 °C  Travel speed (C-track)  3,3 m/s @ 25 °C  No. of forsion cycles  1 Mio. 25 °C   | Power frequency withstand voltage (wire - |  |
| Isolation resistance $5000 \text{ M}\Omega \times \text{km}$ Min. operating temperature (static) $-40 ^{\circ}\text{C}$ Max. operating temperature (fixed) $80 ^{\circ}\text{C}$ Operating temperature min. (dynamic) $-30 ^{\circ}\text{C}$ Operating temperature max. (dynamic) $70 ^{\circ}\text{C}$ Flame resistance IEC $60332\text{-}2\text{-}2 \mid \text{UL} 1581 ^{\circ}\text{S} 1090 \mid \text{UL} 1581 ^{\circ}\text{S} 1100 ^{\circ}\text{FT2}$ chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Oil resistance DIN EN $60811\text{-}404 \mid \text{Good}$ , application-related testing  Bending radius (fixed) $5 \times \text{Outer diameter}$ Bending radius (dynamic) $12 \times \text{Outer diameter}$ No. of bending cycles (C-track) $3 ^{\circ}\text{Mio} \cdot \text{@ 25 ^{\circ}\text{C}}$ Traversing distance (C-track) $5 ^{\circ}\text{m} \cdot \text{@ 25 ^{\circ}\text{C}}$ Travel speed (C-track) $3,3 ^{\circ}\text{m} \cdot \text{@ 25 ^{\circ}\text{C}}$ No. of torsion cycles $1 ^{\circ}\text{Mio} \cdot 25 ^{\circ}\text{C}$   | AC withstand voltage (wire - shield)      | 2 kV @ 60 s  |
| Min. operating temperature (static)  Max. operating temperature (fixed)  80 °C  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  70 °C  Flame resistance  IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2  chemical resistance  Good, application-related testing  Gasoline resistance  Oil resistance  DIN EN 60811-404   Good, application-related testing  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic)  12 x Outer diameter  No. of bending cycles (C-track)  3 Mio. @ 25 °C  Traversing distance (C-track)  3,3 m/s @ 25 °C  No. of torsion cycles  1 Mio. 25 °C  |   | 5000 MΩ × km   |
| Max. operating temperature (fixed) 80 °C  Operating temperature min. (dynamic) -30 °C  Operating temperature max. (dynamic) 70 °C  Flame resistance IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2  chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Oil resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 5 × Outer diameter  Bending radius (dynamic) 12 × Outer diameter  No. of bending cycles (C-track) 3 Mio. @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C  Travel speed (C-track) 3,3 m/s @ 25 °C  No. of torsion cycles 1 Mio. 25 °C  |   |  |
| Operating temperature min. (dynamic) Operating temperature max. (dynamic) 70 °C Flame resistance IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance Oil resistance DIN EN 60811-404   Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 12 x Outer diameter No. of bending cycles (C-track) 3 Mio. @ 25 °C Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 1 Mio. 25 °C  |   | 80 °C  |
| Operating temperature max. (dynamic)  Flame resistance  IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2  chemical resistance  Good, application-related testing  Gasoline resistance  Oil resistance  DIN EN 60811-404   Good, application-related testing  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic)  12 x Outer diameter  No. of bending cycles (C-track)  3 Mio. @ 25 °C  Traver speed (C-track)  5 m @ 25 °C  Travel speed (C-track)  3,3 m/s @ 25 °C  No. of torsion cycles  1 Mio. 25 °C   |   |  |
| Flame resistance IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2 chemical resistance Good, application-related testing  Gasoline resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 12 x Outer diameter  No. of bending cycles (C-track) 3 Mio. @ 25 °C  Traver sing distance (C-track) 5 m @ 25 °C  Travel speed (C-track) 3,3 m/s @ 25 °C  No. of torsion cycles 1 Mio. 25 °C   | Operating temperature max. (dynamic)      |  |
| chemical resistance       Good, application-related testing         Gasoline resistance       DIN EN 60811-404   Good, application-related testing         Bending radius (fixed)       5 x Outer diameter         Bending radius (dynamic)       12 x Outer diameter         No. of bending cycles (C-track)       3 Mio. @ 25 °C         Traversing distance (C-track)       5 m @ 25 °C         Travel speed (C-track)       3,3 m/s @ 25 °C         No. of torsion cycles       1 Mio. 25 °C  | Flame resistance                          | IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2  |
| Gasoline resistance Good, application-related testing  Oil resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 12 x Outer diameter  No. of bending cycles (C-track) 3 Mio. @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C  Travel speed (C-track) 3,3 m/s @ 25 °C  No. of torsion cycles 1 Mio. 25 °C  | chemical resistance                       |  |
| Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 12 x Outer diameter  No. of bending cycles (C-track) 3 Mio. @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C  Travel speed (C-track) 3,3 m/s @ 25 °C  No. of torsion cycles 1 Mio. 25 °C  | Gasoline resistance                       | Good, application-related testing                    |
| Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 12 x Outer diameter  No. of bending cycles (C-track) 3 Mio. @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C  Travel speed (C-track) 3,3 m/s @ 25 °C  No. of torsion cycles 1 Mio. 25 °C  | Oil resistance                            | DIN EN 60811-404   Good, application-related testing |
| No. of bending cycles (C-track) 3 Mio. @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C  Travel speed (C-track) 3,3 m/s @ 25 °C  No. of torsion cycles 1 Mio. 25 °C   | Bending radius (fixed)                    |  |
| Traversing distance (C-track) 5 m @ 25 °C  Travel speed (C-track) 3,3 m/s @ 25 °C  No. of torsion cycles 1 Mio. 25 °C   | Bending radius (dynamic)                  | 12 x Outer diameter                                  |
| Traversing distance (C-track) 5 m @ 25 °C  Travel speed (C-track) 3,3 m/s @ 25 °C  No. of torsion cycles 1 Mio. 25 °C   |   | 3 Mio. @ 25 °C                                       |
| Travel speed (C-track) 3,3 m/s @ 25 °C  No. of torsion cycles 1 Mio. 25 °C  |   |  |
| No. of torsion cycles 1 Mio. 25 °C  |   |  |
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