

# stay connected

# RJ45 male 0° with cable shielded

PUR 1x4xAWG22 shielded gn UL/CSA+drag ch. 12m

Product fulfills requirements according to UN/ECE R118

**Ethernet CAT5e** 

Male straight

RJ45, 4-pole

shielded

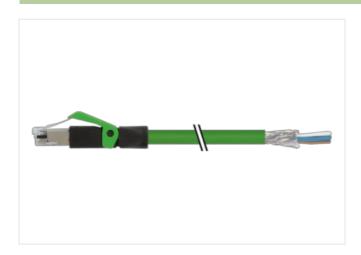
Further cable lengths on request.

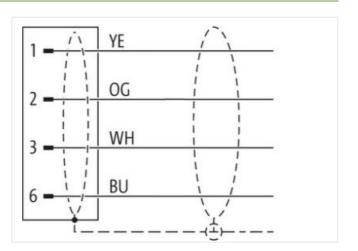
Plastic housings with good resistance against chemicals and oils.

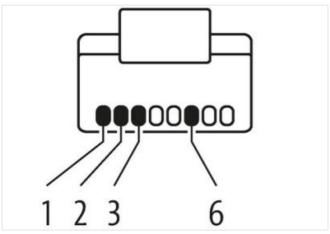
The resistance to aggressive media should be individually tested for your application. Further details on request.

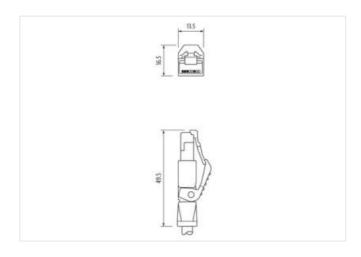
### **Link to Product**

#### Illustration









Product may differ from Image









Cable length

12 m

# Commercial data



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FOLASS S O	
ECLASS-6.0	27061801
ECLASS-6.1	27060307
ECLASS-7.0	27060307
ECLASS-8.0	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	4065909005682
Packaging unit	1
Electrical data   Supply	
Operating voltage DC max.	60 V
Operating voltage DC max. (UL-listed)	30 V
Current operating per contact max.	1,5 A
Industrial communication	
Transfer parameters	CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)
Data transmission rate max.	100 MBit/s
Industrial communication   Ethernet fun	ctionality
duplex	Full duplex
Device protection   Electrical	
•	ID00
Degree of protection (EN IEC 60529)	IP20
Additional condition protection degree	inserted, screwed 3
Pollution Degree  Rated surge voltage	1 kV
Material group (IEC 60664-1)	I NV
Mechanical data	
Contour for corrugated hose	without
Mechanical data   Material data	
Material housing	PUR
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	<b>Attention:</b> Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Installation   Cable	
Cable identification	796
Jacket Color	green
Type of Certificate	cURus
Amount stranding	1
Stranding	4 wires around Core filler twisted
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	85 %
Banding	Fleece, Foil
Filler	yes
wire arrangement	white, yellow, blue, orange
Cable weigth	69,3 g/m

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: 2024-05-21



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Shore hardness jacket         88 Shore A           Freedom from ingredients (jacket)         lead-free, camium-free, CFC-free, halogen-free, silicone-free           Outer diameter (jacket)         6,7 mm           Tolerance outer diameter (seketh)         ± 5 %           Material inner jacket         FRNC           Color (inner jacket)         natur           Material wire insulation         PE           Amount wires         4           Outer diameter loterance core insulation         1,4 mm           Outer diameter loterance 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           Traversing distance (C-track)         5 m @ 25 °C           Travel speed (C-track)         3 Mio. @ 25 °C           Travel speed (C-track)         3,3 m/s @ 25 °C           Towner of bagacity (standard)         to DIN VDE 0298 4           Current load capacity (standard)         to DIN VDE 0298 4           Current load capacity min. wire	Material jacket	PUR
Outer dameter (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 tolerance core insulation         ± 5 %           Shore hardness wire insulation         ± 5 %           Shore hardness wire insulation         ± 5 %           Ingredient freeness wire insulation         ± 5 %           Ingredient freeness wire insulation         ± 65 Shore D           Ingredient freeness wire insulation           65 Shore D           Ingredient freeness wire insulation         ± 65 Shore D           Ingredient freeness wire insulation           65 Shore D           Ingredient freeness wire insulation         ± 65 Shore D           Ingredient freeness wire insulation           65 Shore D           Ingredient freeness wire insulation         ± 65 Shore D           Ingredient freeness wire insulation           65 Shore D           Ingredient freeness wire insulation           75 Wm           Tarversing distalled wires         ± 2 kWG           Conductor vires         ± 5 S Wm           Tarversing distance (C-track)         ± 7 Wm	Shore hardness jacket	89 Shore A
Tolerance outer diameter (sheath)	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Material inner jacket         FRNC           Color (inner jacket)         natur           Material wire insulation         PE           Amount wires         4           Outer diameter insulation         1.4 mm           Outer diameter insulation         65 Shore D           Outer diameter tolerance core insulation         65 Shore D           Ingredient freeness 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           Material conductor wire         Stranded copper wire, bare           Travel speed (C-track)         5 m ≥ 25 °C           Travel speed (C-track)         3 Mio. @ 25 °C           Travel speed (C-track)         3.3 ms @ 25 °C           Nominal voltage AC max.         300 V           Current load capacity (standard)         10 DIN VDE 0298-4           Current load capacity (standard)         10 DIN VDE 0208-4	Outer-diameter (jacket)	6,7 mm
Color (inner jacket)         natur           Material wire insulation         PE           Amount wires         4           Outer dameter insulation         1,4 mm           Outer dameter lolerance core insulation         5 %           Shore hardness wire insulation         65 Shore D           Ingredient freeness wire insulation         65 Shore D           Amount strands (wire)         7           Diameter of single wires         22 AWG           Conductor or osssection (wire)         22 AWG           Inameter of single wires         22 AWG           Conductor crosssection (wire)         22 AWG           Material conductor wire         Stranded copper wire, bare           Traversing distance (C-track)         5 m @ 25 °C           Travel speed (C-track)         3 Min.@ 25 °C           Travel speed (C-track)         3 Min.@ 25 °C           Travel speed (C-track)         3 Min.@ 25 °C           Nominal voltage AC max.         300 V           Current load capacity (standard)         10 IN VDE 0298-4           Current load capacity min. wire         4,8 A           Characteristic impedance         100 Ω ± 15 %@ 100 MHz           Electrical capacity line constant wire         50 Nm @ 20 °C           AC withstand voltage (wire - shield	Tolerance outer diameter (sheath)	±5%
Material wire insulation         PE           Amount wires         4           Outer diameter insulation         1,4 mm           Outer diameter folorance core insulation         65 Shore D           Shore hardness wire insulation         65 Shore D           Ingredient freeness wire insulation         65 Shore D           Ingredient freeness wire insulation         16 Shore D           Amount strands (wire)         7           Diameter of single wires         22 AWG           Conductor crosssection (wire)         22 AWG           Conductor crosssection (wire)         22 AWG           Material conductor wire         Stranded copper wire, bare           Traversing distance (C-track)         5 m @ 25 °C           Travel speed (C-track)         3 Mio. @ 25 °C           Travel speed (C-track)         3,3 mis @ 25 °C           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 (wire vire)         25 C/Km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Electrical capacity line constant wire         55 C/Km	Material inner jacket	FRNC
Amount wires         4           Outer diameter insulation         1,4 mm           Outer diameter tolerance core insulation         ± 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           Material conductor wire         Stranded copper wire, bare           Traversing distance (C-track)         5 m @ 25 °C           Travel speed (C-track)         3,3 m/s @ 25 °C           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           Loop resistance         5000 MΩ × km           Min. operating temperature (static)         40 °C           Max. operatin	Color (inner jacket)	natur
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           Traversing distance (C-track)         5 m @ 25 °C           Travel speed (C-track)         3 Mio. @ 25 °C           Travel speed (C-track)         3,3 m/s @ 25 °C           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 (wire wire)         2 kV @ 60 s           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 capacity line constant (wire - wire)         2 kV @ 60 s           Loop resistance         5000 MΩ × km           Min. operating temperature (sixel)         2 kV @ 60 s <td>Material wire insulation</td> <td>PE</td>	Material wire insulation	PE
Outer diameter tolerance core insulation         ± 5 %           Shore bardness 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           Traver sing distance (C-track)         5 m @ 25 °C           Travel speed (C-track)         3 Mio. @ 25 °C           Travel speed (C-track)         3,3 m/s @ 25 °C           Nominal voltage AC max.         300 ∨           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (wire - wire)         2 kV @ 60 s           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 capacity line constant (wire - wire)         2 kV @ 60 s           AC withstand voltage (wire - shield)         2 kV @ 60 s           Loop resistance         5000 MΩ × km           Min. operating temperature (static)         40	Amount wires	4
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 cooper wire, bare           Traver sing distance (C-track)         5 m @ 25 °C           Travel speed (C-track)         3 Mio. @ 25 °C           Travel speed (C-track)         3.3 m's @ 25 °C           Nominal voltage AC max.         300 V           Current load capacity (standard)         to INI VDE 0298-4           Current load capacity min. wire         4.8 A           Characteristic impedance         100 Ω ± 15 % @ 100 MHz           Electrical resistance line constant wire         55 Ωkm @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Electrical capacity line constant (wire - wire)         2 kV @ 60 s           Electrical capacity line constant (wire - wire)         2 kV @ 60 s           Loop resistance         5000 MΩ × km           Min. operating temperature (static)         40 °C           Ac with stand voltage (wire - shield)         2 kV @ 60 s           Loop resistance         5000 MΩ × km	Outer diameter insulation	1,4 mm
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           Traversing distance (C-track)         5 m @ 25 °C           Travel speed (C-track)         3 Mio. @ 25 °C           Travel speed (C-track)         3,3 m/s @ 25 °C           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity fine 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           Loop resistance         5000 MΩ x km           Min. operating temperature (fixed)         80 °C           Operating temperature min. (dynamic)         -30 °C           Operating temperature max. (dynamic)         70 °C <td>Outer diameter tolerance core insulation</td> <td>±5%</td>	Outer diameter tolerance core insulation	±5%
Amount strands (wire)         7           Diameter of single wires         22 AWG           Conductor crosssection (wire)         22 AWG           Material conductor wire         Stranded copper wire, bare           Traver glid stance (C-track)         5 m @ 25 °C           Travel speed (C-track)         3 Mio. @ 25 °C           Travel speed (C-track)         3.3 m/s @ 25 °C           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           Power frequency withstand voltage (wire - shield)         2 kV @ 60 s           AC withstand voltage (wire - shield)         2 kV @ 60 s           AC withstand voltage (wire - shield)         2 kV @ 60 s           AC withstand voltage (wire - shield)         2 kV @ 60 s           Min. operating temperature min. (dynamic)         -40 °C           Max. operating temperature fixed)         80 °C           Operating temperature mix. (dynamic)         -70 °C </td <td>Shore hardness wire insulation</td> <td>65 Shore D</td>	Shore hardness wire insulation	65 Shore D
Diameter of single wires         22 AWG           Conductor crosssection (wire)         22 AWG           Material conductor wire         Stranded copper wire, bare           Traver sing distance (C-track)         5 m @ 25 °C           Travel speed (C-track)         3 Mio. @ 25 °C           Travel speed (C-track)         3,3 m/s @ 25 °C           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standard)         to DO 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)         5 0000 pF/km           Power frequency withstand voltage (wire - shield)         2 kV @ 60 s           AC withstand voltage (wire - shield)         2 kV @ 60 s           Loop resistance         5000 MΩ x km           Min. operating temperature (static)         -40 °C           Max. operating temperature (static)	Ingredient freeness wire insulation	lead-free, CFC-free, halogen-free
Conductor crossection (wire)         22 AWG           Material conductor wire         Stranded copper wire, bare           Traversing distance (C-track)         5 m @ 25 °C           Travel speed (C-track)         3 Mio. @ 25 °C           Travel speed (C-track)         3,3 m/s @ 25 °C           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 Ωkm @ 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           Loop 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         Elec 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2           chemical resistance         Good, application-related testing           Gasoline resistance         DIN	Amount strands (wire)	7
Material conductor wire Stranded copper wire, bare Traversing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3 Mio. @ 25 °C Travel speed (C-track) 3,3 m/s @ 25 °C Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,8 A Current load capacity min. wire 55 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2 kV @ 60 s Electrical capacity ine 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 AC withstand voltage (wire - shield) 2 kV @ 60 s Loop resistance Min. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Max. 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 x Outer diameter Bending radius (dynamic) 12 x Outer diameter No. of torsion cycles 1 Mio. 25 °C	Diameter of single wires	22 AWG
Traversing distance (C-track) $5 \text{ m} \otimes 25 ^{\circ}\text{C}$ Travel speed (C-track) $3 \text{ Mio.} \otimes 25 ^{\circ}\text{C}$ Travel speed (C-track) $3,3 \text{ m/s} \otimes 25 ^{\circ}\text{C}$ Nominal voltage AC max. $300 \text{ V}$ Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire $4,8 \text{ A}$ Characteristic impedance $100 \Omega \pm 15 ^{\circ}\text{W} \otimes 100 \text{ MHz}$ Electrical resistance line constant wire $55 \Omega \text{km} \otimes 20 ^{\circ}\text{C}$ AC withstand voltage (wire - wire) $2 \text{ kV} \otimes 60 \text{ s}$ Electrical capacity line constant (wire - wire) $50000 \text{ pF/km}$ Power frequency withstand voltage (wire - aicket) $2 \text{ kV} \otimes 60 \text{ s}$ AC withstand voltage (wire - shield) $2 \text{ kV} \otimes 60 \text{ s}$ Loop 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 $6000 \text{ Application-related testing}$ Gasoline resistance $9000 \text{ Application-related testing}$ Oil resistance DIN EN 60811-404 [Good, application-related testing Bending radius (fixed) $5 \times \text{C}$ volter diameter  Bending radius (fixed) $5 \times \text{C}$ volter diameter  No. of torsion cycles $1 \times \text{Mio.} 25 ^{\circ}\text{C}$	Conductor crosssection (wire)	22 AWG
Travel speed (C-track)       3 Mio. @ 25 °C         Travel speed (C-track)       3,3 m/s @ 25 °C         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 $100 \Omega \pm 15 \% @ 100 \text{ MHz}$ Electrical resistance line constant wire $55 \Omega \text{km} @ 20 °C$ 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 - shield) $2 \text{ kV} @ 60 \text{ s}$ AC withstand voltage (wire - shield) $2 \text{ kV} @ 60 \text{ s}$ Loop resistance $5000 \text{ M}\Omega \times \text{km}$ Min. operating temperature (static) $40 °C$ Max. operating temperature (fixed) $80 °C$ Operating temperature max. (dynamic) $70 °C$ Flame resistance       IEC 60332-2-2   UL 1581 § 109   UL 1581 § 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) $5 \times \text{Outer diameter}$ No. of	Material conductor wire	Stranded copper wire, bare
Travel speed (C-track) 3,3 m/s @ 25 °C  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 pF/km  Power frequency withstand voltage (wire - acceptable of the standard voltage (wire - acceptable of the standard voltage (wire - shield) 2 kV @ 60 s  Loop resistance 5000 M $\Omega$ x km  Min. operating temperature (static) 40 °C  Max. operating temperature (fixed) 80 °C  Operating temperature (fixed) 80 °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  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 torsion cycles 1 Mio. 25 °C	Traversing distance (C-track)	5 m @ 25 °C
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 $100 \Omega \pm 15 \% (0.100 \text{ MHz})$ Electrical resistance line constant wire $55 \Omega / \text{km} (0.20 \text{ °C})$ AC withstand voltage (wire - wire) $2 \text{ kV} (0.00 \text{ °C})$ Electrical capacity line constant (wire - wire) $50000 \text{ pF} / \text{km}$ Power frequency withstand voltage (wire - jacket) $2 \text{ kV} (0.00 \text{ °C})$ AC withstand voltage (wire - shield) $2 \text{ kV} (0.00 \text{ °C})$ AC withstand voltage (wire - shield) $2 \text{ kV} (0.00 \text{ °C})$ AC withstand voltage (wire - shield) $2 \text{ kV} (0.00 \text{ °C})$ Max. operating temperature (static) $40 \text{ °C}$ Max. operating temperature (fixed) $80 \text{ °C}$ Operating temperature min. (dynamic) $30 \text{ °C}$ Operating temperature max. (dynamic) $70 \text{ °C}$ Flame resistance $10000 \text{ EC} (0.00 \text{ °C})$ Flame resistance $10000 \text{ °C} (0.00 \text{ °C})$ Gasoline resistance $10000 \text{ °C} (0.00 \text{ °C})$ Gasoline resistance $10000 \text{ °C} (0.00 \text{ °C})$ Oil resistance $10000 \text{ °C} (0.00 \text{ °C})$ DIN EN 600011-404   Good, application-related testing $100000 \text{ °C} (0.00 \text{ °C})$ Bending radius (fixed) $10000 \text{ °C} (0.00 \text{ °C})$ Bending radius (fixed) $100000 \text{ °C} (0.00 \text{ °C})$ Bending radius (fixed) $1000000000000000000000000000000000000$	Travel speed (C-track)	3 Mio. @ 25 °C
Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4,8 A  Characteristic impedance $100 \Omega \pm 15 \% @ 100 \text{ MHz}$ Electrical resistance line constant wire $55 \Omega / \text{km} @ 20 \text{ °C}$ AC withstand voltage (wire - wire) $2 \text{ kV} @ 60 \text{ s}$ Electrical capacity line constant (wire - wire) $50000 \text{ pF} / \text{km}$ Power frequency withstand voltage (wire - jacket) $2 \text{ kV} @ 60 \text{ s}$ AC withstand voltage (wire - shield) $2 \text{ kV} @ 60 \text{ s}$ Loop 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) $40 \text{ °C}$ Coperating temperature max. (dynamic) $40 \text{ °C}$ Flame resistance $40 \text{ °C} \times 000 \text{ °C}$ Operating temperature max. (dynamic) $40 \text{ °C} \times 000 \text{ °C}$ Coperating temperature max. (dynamic) $40 \text{ °C} \times 000 \text{ °C}$ Operating temperature max. (dynamic) $40 \text{ °C} \times 000 \text{ °C}$ Operating temperature max. (dynamic) $40 \text{ °C} \times 000 \text{ °C}$ Operating temperature max. (dynamic) $40 \text{ °C} \times 000 \text{ °C}$ Operating temperature max. (dynamic) $40 \text{ °C} \times 000 \text{ °C}$ Operating temperature max. (dynamic) $40 \text{ °C} \times 000 \text{ °C}$ Operating temperature max. (dynamic) $40 \text{ °C} \times 000 \text{ °C}$ Operating temperature max. (dynamic) $40 \text{ °C} \times 000 \text{ °C}$ Operating temperature max. (dynamic) $40 \text{ °C} \times 000 \text{ °C}$ Operating temperature max. (dynamic) $40 \text{ °C} \times 000 \text{ °C}$ Operating temperature max. (dynamic) $40 \text{ °C} \times 000 \text{ °C}$ Operating temperature max. (dynamic) $40 \text{ °C} \times 000 \text{ °C}$ Operating temperature max. (dynamic) $40 \text{ °C} \times 000 \text{ °C}$ Operating temperature max. (dynamic) $40 \text{ °C} \times 000 \text{ °C}$ Gasoline resistance Good, application-related testing  Oil resistance DIN EN 60811-404   Good, application-related testing  Bending radius (dynamic) $40 \text{ °C} \times 000 \text{ °C}$ Otorion cycles $40 \text{ °C} \times 000 \text{ °C}$	Travel speed (C-track)	3,3 m/s @ 25 °C
Current load capacity min. wire $4.8 \text{ A}$ Characteristic impedance $100 \Omega \pm 15 \% @ 100 \text{ MHz}$ Electrical resistance line constant wire $55 \Omega \text{/km} @ 20 \text{ °C}$ 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 - jacket) $2 \text{ kV} @ 60 \text{ s}$ AC withstand voltage (wire - shield) $2 \text{ kV} @ 60 \text{ s}$ Loop 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) $70 \text{ °C}$ Flame resistance $[EC 60332-2-2] \text{ UL} 1581 \S 1090 \text{ UL} 1581 \S 1100 \text{ FT2}$ chemical resistance $[Good, application-related testing]$ Gasoline resistance $[DIN \text{ EN } 60811-404 \text{   Good, application-related testing}]$ Bending radius (fixed) $5 \times \text{Outer diameter}$ Bending radius (dynamic) $12 \times \text{Outer diameter}$ Bending radius (dynamic) $12 \times \text{Outer diameter}$ No. of torsion cycles $1 \text{ Mio. 25 °C}$	Nominal voltage AC max.	300 V
Characteristic impedance $100 \Omega \pm 15 \% 0 100  \mathrm{MHz}$ Electrical resistance line constant wire $55  \Omega / \mathrm{km} \otimes 20  ^{\circ} \mathrm{C}$ AC withstand voltage (wire - wire) $2  \mathrm{kV} \otimes 60  \mathrm{s}$ Electrical capacity line constant (wire - wire) $50000  \mathrm{pF/km}$ Power frequency withstand voltage (wire - iacket) $2  \mathrm{kV} \otimes 60  \mathrm{s}$ AC withstand voltage (wire - shield) $2  \mathrm{kV} \otimes 60  \mathrm{s}$ Loop resistance $5000  \mathrm{M\Omega} \times \mathrm{km}$ Min. operating temperature (static) $-40  ^{\circ} \mathrm{C}$ Max. operating temperature (fixed) $80  ^{\circ} \mathrm{C}$ Operating temperature max. (dynamic) $-30  ^{\circ} \mathrm{C}$ Operating temperature max. (dynamic) $70  ^{\circ} \mathrm{C}$ Flame resistance $[\mathrm{EC}  60332 \cdot 2 \cdot 2 \cdot ]  \mathrm{UL}  1581  \S  1090  ]  \mathrm{UL}  1581  \S  1100  \mathrm{FT2}$ chemical resistance $[\mathrm{Good}, \mathrm{application-related}  \mathrm{testing}]$ Gasoline resistance $[\mathrm{Good}, \mathrm{application-related}  \mathrm{testing}]$ Oil resistance $[\mathrm{DIN}  \mathrm{EN}  60811 \cdot 404  ]  \mathrm{Good}, \mathrm{application-related}  \mathrm{testing}]$ Bending radius (fixed) $5 \times \mathrm{Outer}  \mathrm{diameter}]$ Bending radius (dynamic) $12 \times \mathrm{Outer}  \mathrm{diameter}]$ No. of torsion cycles $1  \mathrm{Mio} \cdot 25  ^{\circ} \mathrm{C}$	Current load capacity (standard)	to DIN VDE 0298-4
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  Loop 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 × Outer diameter  Bending radius (dynamic) 12 × Outer diameter  No. of torsion cycles 1 Mio. 25 °C	Current load capacity min. wire	4,8 A
AC withstand voltage (wire - wire)  Electrical capacity line constant (wire - wire)  Power frequency withstand voltage (wire - jacket)  AC withstand voltage (wire - shield)  Electrical capacity line constant (wire - wire)  2 kV @ 60 s  2 kV @ 60 s  Loop resistance  5000 MΩ × km  Min. operating temperature (static)  Ac withstand voltage (wire - shield)  Electrical capacity line constant (wire - wire)  Min. operating temperature (static)  Ac v°C  Max. operating temperature min. (dynamic)  Operating temperature min. (dynamic)  Flame resistance  Electrical capacity line constant (wire - wire)  Electrical capacity line (wire)  Electrical capacity l	Characteristic impedance	100 Ω ± 15 % @ 100 MHz
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  Loop 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  Bending radius (dynamic) 12 × Outer diameter  No. of torsion cycles 1 Mio. 25 °C	Electrical resistance line constant wire	55 Ω/km @ 20 °C
Power frequency withstand voltage (wire - jacket)       2 kV @ 60 s         AC withstand voltage (wire - shield)       2 kV @ 60 s         Loop 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 torsion cycles       1 Mio. 25 °C	AC withstand voltage (wire - wire)	2 kV @ 60 s
jacket)       2 kV @ 60 s         Loop 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 torsion cycles       1 Mio. 25 °C	Electrical capacity line constant (wire - wire)	50000 pF/km
Loop resistance $5000 \text{ MΩ} \times \text{km}$ 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 $60332\text{-}2\text{-}2\text{   UL }1581  \S  1090     \text{UL }1581  \S  1100  \text{FT2}$ chemical resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing         Oil resistance       DIN EN $60811\text{-}404     \text{Good}$ , application-related testing         Bending radius (fixed) $5 \times \text{Outer diameter}$ Bending radius (dynamic) $12 \times \text{Outer diameter}$ No. of torsion cycles $1  \text{Mio. } 25  ^{\circ}\text{C}$		2 kV @ 60 s
Min. operating temperature (static)  Max. operating temperature (fixed)  Operating temperature min. (dynamic)  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  To °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 torsion cycles  1 Mio. 25 °C	AC withstand voltage (wire - shield)	2 kV @ 60 s
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 torsion cycles 1 Mio. 25 °C	Loop resistance	5000 MΩ × km
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 torsion cycles  1 Mio. 25 °C	Min. operating temperature (static)	-40 °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 torsion cycles 1 Mio. 25 °C	Max. operating temperature (fixed)	80 °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 torsion cycles 1 Mio. 25 °C	Operating temperature min. (dynamic)	-30 °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 torsion cycles 1 Mio. 25 °C	Operating temperature max. (dynamic)	70 °C
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 torsion cycles 1 Mio. 25 °C		IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2
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 torsion cycles 1 Mio. 25 °C	chemical 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 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 torsion cycles 1 Mio. 25 °C		
Bending radius (dynamic) 12 x Outer diameter  No. of torsion cycles 1 Mio. 25 °C		
No. of torsion cycles 1 Mio. 25 °C		
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TOTSION STRESS ± 180 °/m	Torsion stress	± 180 °/m