

RJ45 male 0° / RJ45 male 0° shielded

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

Ethernet CAT5 Male straight - male straight RJ45 - RJ45, 4-pole shielded

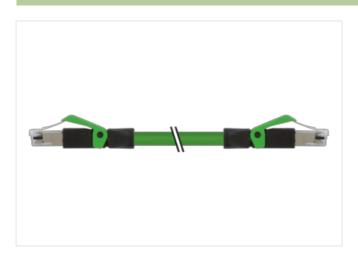
Further cable lengths on request.

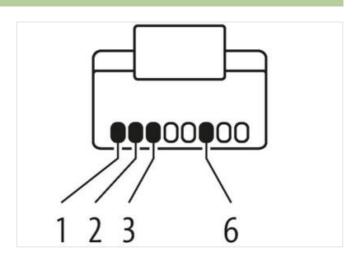
Plastic housings with good resistance against chemicals and oils.

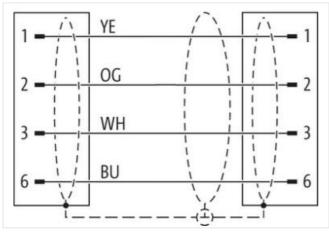
The resistance to aggressive media should be individually tested for your application. Further details on request.

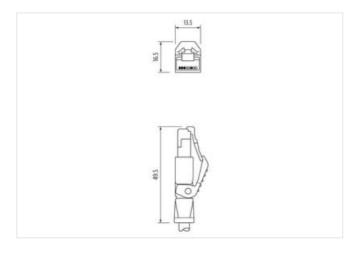
Link to Product

Illustration









Product may differ from Image









Cable length

1,5 m

Side 1

Mounting method

inserted



stay connected

Family construction form	RJ45
No. of poles	4
Commercial data	
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	4048879651134
Packaging unit	1
Electrical data Supply	
Operating voltage DC max.	60 V
Current operating per contact max.	1,5 A
Industrial communication	
Transfer parameters	CAT5e, Class D (ISO/IEC 11801:2002), (EN 50173-1)
Data transmission rate max.	100 MBit/s
Industrial communication Ethernet fun	
·	•
duplex	Full duplex
Diagnostics	
Status indication LED	no
Device protection Electrical	
Degree of protection (EN IEC 60529)	IP20
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	
·	DUD
Material housing	PUR
Locking material	PA
Mechanical data Mounting data	
Looking techniques	Snap-in connector
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	
Cable identification	659
Jacket Color	green
Type of Certificate	cURus
21	

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: 2024-05-17



stay connected

Cable shielding (poyee) copper braid, finned Cable shielding (coverage) 85 % Banding Fleece, Foll Filler yes win arrangement white, yellow, blue, orange Cable weight 89.1 g/m Material packet PUR Shore hardness jacket 90.5 flore A Freedom from ingredients (glocket) 12.4 mm Tolerance outer diameter (glocket) 7.4 mm Outer diameter (glocket) 7.4 mm Outer diameter (glocket) 7.4 mm Outer diameter (glocket) 1.4 mm Outer diameter (glocket) 1.4 mm Outer diameter (glocket) 5.5 % Shore bardness (glocket) 1.5 % Dispersion freeness wire insulation 1.5 % Amou	Stranding	4 wires around Core filler twisted
Bandling Fleare, Foll Filler yes Filler yes Wise arrangement white, yellow, blue, orange Cable weight 89.1 g/m Material jacket PUR Shore hardness jacket 90 ± Shore A Freedom from ingredients (acket) 7.4 mm Tolerance outer diameter (sheath) ± 5 % Material inter jacket TPE-V Outer diameter (sheath) ± 5 % Material wire insulation PE Outer diameter insulation 1.4 mm Outer diameter tolerance core insulation 5 Shore D Shore hardness wire insulation 1.4 mm Outer diameter tolerance core insulation 5 Shore D Ingredient freeness wire insulation 1.4 mm Ingredient freeness wire insulation 1.4 mm Ingredient freeness wire insulation 1.5 % Ingredient freeness wire insulation 1.5 % Ingredient freeness wire insulation 2.5 WG Conductor wire 2.2 AWG Conductor orassaction (wire) 2.2 AWG Conductor orassaction (wi	Cable shielding (type)	copper braid, tinned
Bandling Fleare, Foll Filler yes Filler yes Wise arrangement white, yellow, blue, orange Cable weight 89.1 g/m Material jacket PUR Shore hardness jacket 90 ± Shore A Freedom from ingredients (acket) 7.4 mm Tolerance outer diameter (sheath) ± 5 % Material inter jacket TPE-V Outer diameter (sheath) ± 5 % Material wire insulation PE Outer diameter insulation 1.4 mm Outer diameter tolerance core insulation 5 Shore D Shore hardness wire insulation 1.4 mm Outer diameter tolerance core insulation 5 Shore D Ingredient freeness wire insulation 1.4 mm Ingredient freeness wire insulation 1.4 mm Ingredient freeness wire insulation 1.5 % Ingredient freeness wire insulation 1.5 % Ingredient freeness wire insulation 2.5 WG Conductor wire 2.2 AWG Conductor orassaction (wire) 2.2 AWG Conductor orassaction (wi	Cable shielding (coverage)	85 %
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wite arrangement white, yellow, blue, orange Cable wigith 88,1 g/m Material Jacket PUR Shore hardness jacket 90 ± Shore A Freedom from ingredents (jacket) 17,4 mm Tolerance outer diameter (sheeth) ± 5 % Material inner Jacket TPE-V Color (inner jacket) white Material wire insulation PE Amount wires 4 Amount wires 4 Cuter diameter tolerance orar insulation 5 5 Nore D Under diameter insulation 5 5 Nore D Ingredient freeness wire insulation 65 Shore D Ingredient freeness wire insulation 65 Shore D Ingredient freeness wire insulation 84 Free, CFC-free, halogen-free Amount strands (wire) 7 Diameter of single wires 22 AWG Conductor crosssection (wire) 22 AWG Conductor crosssection (wire) 22 AWG Conductor crosssection (wire) 22 AWG Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min, wire 4,8 A	Filler	yes
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Material jacket PUR Shore hardness jacket 90 ± Shore A Freedom from ingredients (jacket) 12 seaf-free, CFC-free, halogen-free Outer-dameter (jacket) 7,4 mm Tolerance outer diameter (sheath) ± 5 % Material inner jacket TPE-V Color (inner jacket) white Material wire insulation PE Amount wires 4 Outer diameter insulation 1,4 mm Outer diameter tolerance ocre insulation 6 S Shore D Ingredient freeness wire insulation 65 Shore D Ingredient freeness wire insulation 65 Shore D Ingredient freeness wire insulation 16 S Shore D Ingredient freeness wire insulation	Cable weigth	
Shore hardness jacket 90 ± Shore A Freedom from ingredients (jacket) lead-free, CFC-Free, halogen-free Outber-diameter (jacket) 7.4 mm Tolerance outer diameter (shealth) ± 5 % Material inner jacket TPE-V Color (inner jacket) white Material wire insulation PE Amount wires 4 Outer diameter insulation 1.4 mm Outer diameter beforance core insulation 65 % Shore hardness wire insulation 65 Shore D Ingredient freeness wire insulation 65 Shore D Ingredient freeness wire insulation 65 Shore D Ingredient freeness wire insulation 22 AWG Conductor crosssection (vire) 7 Diameter of single wires 22 AWG Conductor crosssection (vire) 5 m Nominal voltage AC max. 60 V Current load capacity (standard) 10 DIN VDE 0298-4	Material jacket	
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Tolerance outer diameter (sheath) ± 5 % Material inner jacket TPE-V Color (inner jacket) white Material wire insulation PE Amount wires 4 Outer diameter insulation 1,4 mm Outer diameter tolerance core insulation 65 Shore D Ingredient freeness 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 crossaection (wire) 22 AWG Material conductor wire Stranded copper wire, bare Traversing distance (C-track) 5 m Nominal voltage AC max 60 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,8 A Characteristic impedance 100 0± 15 % Electrical resistance line constant wire 55 Ωkm @ 20 °C AC withstand voltage (wire - wire) 2 kV @ 60 s Electrical papacity line constant (wire - wire) 2 kV @ 60 s Loop resistance 5000 MΩ x km	Freedom from ingredients (jacket)	lead-free, CFC-free, halogen-free
Material inner jacket TPE-V Color (inner jacket) white Material wire insulation PE Amount wires 4 Outer diameter 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 Dameter of single wires 22 AWG Conductor crosssection (wire) 22 AWG Conductor wire Stranded copper wire, bare Taversing distance (C-track) 5 m Nominal voltage AC max. 60 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,8 A Claracteristic impedance 100 £ 15 % Electrical resistance line constant wire 55 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2 kV @ 60 s Electrical capacity in instand voltage (wire - shield) 2 kV @ 60 s Loop resistance 5000 MD × km Min. operating temperature (statc) 40 °C Oper	Outer-diameter (jacket)	7,4 mm
Color (inner jacket) white 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 lead-free, CFC-free, halogen-free Amount strands (wire) 7 Diameter of single wires 22 AWG Conductor crosssection (wire) 22 Famede copper wire, bare Traversing distance (C-track) 5 m Nominal voltage AC max. 60 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,8 A Characteristic impedance 100 Ω ± 15 % Electrical resistance line constant wire 55 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2 kV @ 60 s Electrical resistance line constant (wire - wire) 50000 pF/km Power frequency withstand voltage (wire - shield) 2 kV @ 60 s Loop resistance 5000 MΩ x km Min. operating temperature (fixed) 80 °C Operating temperature max. (dynamic)	Tolerance outer diameter (sheath)	±5%
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 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 Nominal voltage AC max 60 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4.8 A Characteristic impedance 100 Ω± 15 % Electrical resistance line constant wire 55 Ω/m @ 20 °C AC withstand voltage (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 AC withstand voltage (wire - shield) 2 kW @ 60 s Loop resistance 5000 MD × km Min. operating temperature (static)	Material inner jacket	TPE-V
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 Traversing distance (C-track) 5 m Nominal voltage AC max. 60 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (wire vire) 2 kV @ 60 s 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 Loop resistance 5000 MΩ × km Min. operating temperature (static) 40 °C Max. operat	Color (inner jacket)	white
Outer diameter insulation 1,4 mm Outer diameter tolerance core insulation ± 5 % Shore hardness 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 Nominal voltage AC max. 60 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) <td< td=""><td>Material wire insulation</td><td>PE</td></td<>	Material wire insulation	PE
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 orssection (wire) 22 AWG Material conductor wire Stranded copper wire, bare Taversing distance (C-track) 5 m Nominal voltage AC max. 60 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard)	Amount wires	4
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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 Nominal voltage AC max. 60 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity win. wire 4,8 A Characteristic impedance 100 Ω ± 15 % 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. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -30 °C Operating temperature min. (dynamic) 70 °C Flame resistance UL 1581 § 1100 FT2 EC 60332-2-2 UL 1581 § 1090 <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 Traversing distance (C-track) 5 m Nominal voltage AC max. 60 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,8 A Characteristic impedance 100 Ω± 15 % 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 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 (fixed) 80 °C Operating temperature min. (dynamic) -30 °C Operating temperature max. (dynamic) 70 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing </td <td>Shore hardness wire insulation</td> <td></td>	Shore hardness wire insulation	
Diameter of single wires 22 AWG Conductor crosssection (wire) 22 AWG Material conductor wire Stranded copper wire, bare Traversing distance (C-track) 5 m Nominal voltage AC max. 60 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4.8 A Characteristic impedance 100 Ω ± 15 % 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 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 Good, application-related testing Gasoline resistance Good, application-related testing	Ingredient freeness wire insulation	lead-free, CFC-free, halogen-free
Conductor crosssection (wire) 22 AWG Material conductor wire Stranded copper wire, bare Traversing distance (C-track) 5 m Nominal voltage AC max. 60 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity inin wire 4.8 A Characteristic impedance 100 Ω±15 % 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. 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 Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) <	Amount strands (wire)	7
Conductor crosssection (wire) 22 AWG Material conductor wire Stranded copper wire, bare Traversing distance (C-track) 5 m Nominal voltage AC max. 60 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity inin wire 4.8 A Characteristic impedance 100 Ω±15 % 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. 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 Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) <	Diameter of single wires	22 AWG
Traversing distance (C-track) 5 m Nominal voltage AC max. 60 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,8 A Characteristic impedance $100 \Omega \pm 15 \%$ Electrical resistance line constant wire $55 \Omega \text{km} \otimes 20 \text{ °C}$ AC withstand voltage (wire - wire) $2 \text{ kV} \otimes 60 \text{ s}$ Electrical capacity line constant (wire - wire) 50000 pF/km Power frequency withstand voltage (wire - shield) $2 \text{ kV} \otimes 60 \text{ s}$ 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 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -30 °C Operating temperature max. (dynamic) 70 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) $5 \times \text{Outer diameter}$ Bending radius (dynamic) $12 \times \text{Outer diameter}$		22 AWG
Traversing distance (C-track) 5 m Nominal voltage AC max. 60 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,8 A Characteristic impedance $100 \Omega \pm 15 \%$ Electrical resistance line constant wire $55 \Omega \text{km} \otimes 20 \text{ °C}$ AC withstand voltage (wire - wire) $2 \text{ kV} \otimes 60 \text{ s}$ Electrical capacity line constant (wire - wire) 50000 pF/km Power frequency withstand voltage (wire - shield) $2 \text{ kV} \otimes 60 \text{ s}$ 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 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -30 °C Operating temperature max. (dynamic) 70 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) $5 \times \text{Outer diameter}$ Bending radius (dynamic) $12 \times \text{Outer diameter}$	Material conductor wire	Stranded copper wire, bare
Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4.8 A Characteristic impedance $100 \Omega \pm 15 \%$ 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) 50000pF/km Power frequency withstand voltage (wire - shield) $2 \text{ kV} \otimes 60 \text{ s}$ 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 $UL 1581 \$ 1100 \text{FT2} $	Traversing distance (C-track)	
Current load capacity min. wire 4.8 A Characteristic impedance $100 \Omega \pm 15 \%$ Electrical resistance line constant wire 55Ω /km @ $20 \degree$ C AC withstand voltage (wire - wire) 2 kV @ 60 s Electrical capacity line constant (wire - wire) 50000 pF/km Power frequency withstand voltage (wire - iacket) 2 kV @ 60 s AC withstand voltage (wire - shield) 2 kV @ 60 s Loop resistance $5000 \text{ M}\Omega \times \text{km}$ Min. operating temperature (static) $40 \degree$ C Max. operating temperature (fixed) $80 \degree$ C Operating temperature min. (dynamic) $30 \degree$ C Operating temperature max. (dynamic) $70 \degree$ C Flame resistance $9000 \text{ UL } 1581 \$ 1100 \text{ FT2} \text{ IEC } 60332-2-2 \text{ UL } 1581 \$ 1090$ chemical resistance 9000 Good , application-related testing} Gasoline resistance $9000 \text{ DIN } \text{ EN } 60811-404 \text{ Good}$, application-related testing} Bending radius (fixed) $5 \times \text{ Outer diameter}$ Bending radius (dynamic) $12 \times \text{ Outer diameter}$	Nominal voltage AC max.	60 V
Characteristic impedance $100 \Omega \pm 15 \%$ 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 - jacket) $2 kV @ 60 s$ AC withstand voltage (wire - shield) $2 kV @ 60 s$ Loop resistance $5000 M\Omega \times km$ 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 $UL 1581 \S 1100 FT2 IEC 60332-2-2 UL 1581 \S 1090$ chemical resistance $Good$, application-related testing Gasoline resistance $DIN EN 60811-404 Good$, application-related testing Bending radius (fixed) $5 \times Outer$ diameter	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 UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 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	Current load capacity min. wire	4,8 A
AC withstand voltage (wire - wire) Electrical capacity line constant (wire - wire) Power frequency withstand voltage (wire - iacket) AC withstand voltage (wire - shield) Loop resistance 5000 MΩ × km Min. operating temperature (static) Ac withstand voltage (wire - shield) Ac withstand voltage (wire - shield) Loop resistance 5000 MΩ × km Min. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -30 °C Operating temperature max. (dynamic) 70 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 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	Characteristic impedance	100 Ω ± 15 %
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 UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 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	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 UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 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 x Outer diameter	AC withstand voltage (wire - wire)	2 kV @ 60 s
AC withstand voltage (wire - shield) Loop resistance 5000 MΩ × km Min. operating temperature (static) Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature max. (dynamic) 70 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 × Outer diameter Bending radius (dynamic) 12 × Outer diameter	Electrical capacity line constant (wire - wire)	50000 pF/km
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 UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 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		2 kV @ 60 s
Min. operating temperature (static) Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature max. (dynamic) Operating temperature max. (dynamic) To °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 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	AC withstand voltage (wire - shield)	2 kV @ 60 s
Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature max. (dynamic) Operating temperature max. (dynamic) To °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 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	Loop resistance	5000 MΩ × km
Operating temperature min. (dynamic) Operating temperature max. (dynamic) 70 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 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	Min. operating temperature (static)	-40 °C
Operating temperature max. (dynamic) Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 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	Max. operating temperature (fixed)	80 °C
Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 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	Operating temperature min. (dynamic)	-30 °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	Operating temperature max. (dynamic)	70 °C
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	Flame resistance	UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090
Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 12 x Outer diameter	chemical resistance	Good, application-related testing
Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 12 x Outer diameter	Gasoline resistance	Good, application-related testing
Bending radius (dynamic) 12 x Outer diameter	Oil resistance	DIN EN 60811-404 Good, application-related testing
	Bending radius (fixed)	5 x Outer diameter
Travel speed (C-track) 2 Mio.	Bending radius (dynamic)	12 x Outer diameter
	Travel speed (C-track)	2 Mio.