

## RJ45 male 0° with cable shielded

PUR 1x4xAWG22 shielded gn UL/CSA+drag ch. 45m

Product fulfills requirements according to UN/ECE R118

**Ethernet CAT5e** 

Male straight

RJ45, 4-pole

shielded

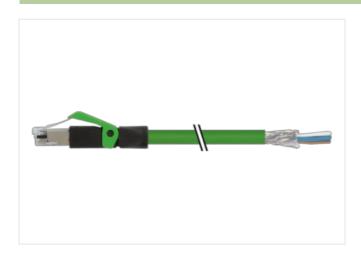
Further cable lengths on request.

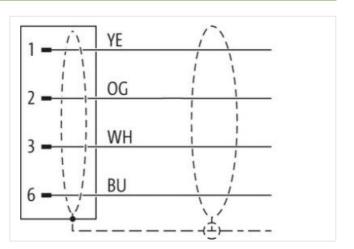
Plastic housings with good resistance against chemicals and oils.

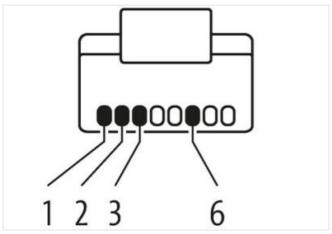
The resistance to aggressive media should be individually tested for your application. Further details on request.

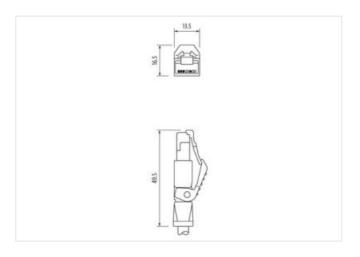
## **Link to Product**

## Illustration









Product may differ from Image















Cable length

45 m

Side 1



stay connected

Family construction form	RJ45
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	4048879672337
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	
•	,
duplex	Full duplex
Device protection   Electrical	
Degree of protection (EN IEC 60529)	IP20
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	1 kV
Material group (IEC 60664-1)	I
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	
	white, yellow, blue, orange
wire arrangement	
wire arrangement Cable identification	796
<u> </u>	796 green
Cable identification	
Cable identification  Jacket Color	green
Cable identification  Jacket Color  Type of Certificate	green cURus



stay connected

write verigin white, yellow, blue, orange Gable weight 69,3 g/m Material jacket PUR Shore hardness jacket 88 Shore A Freedom from ingredients (jacket) 19,7 mm Tolerance outer diameter (jacket) 5,7 mm Tolerance outer diameter (jacket) 1,5 mm Material lance floor placket FINIC Color (inner jacket) natur Material niner jacket) natur Material weight in suitation PE Material weight in suitation 1,4 mm Outer diameter floorance core insulation 5% Shore hardness were insulation 1,4 mm Outer diameter fortrance core insulation 68 Shore D Ingredient freeness wire insulation 1,4 mm Outer diameter fortrance core insulation 1,5 mm Outer diameter fortrance core insulation 1,4 mm Outer diameter for single wires 2,2 AWG  Material conductor wire 1,5 mm Outer diameter fortrance 1,5 mm Outer diameter fortr	Banding	Fleece, Foil
Cable weight         69.3 g/m           Material jacket         PUR           Froedom from Ingradients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone free           Outer-diameter (jacket)         6,7 mm           Tolerance outer diameter (sheath)         2.5 %           Material inner jacket         FRNO           Color (inner jacket)         natur           Material wire insulation         PE           Amount wires         4           Outer diameter insulation         1,4 mm           Outer diameter insulation         1,4 mm           Outer diameter insulation         1,4 mm           Outer diameter insulation         1,5 %           Shore hardness wire insulation         165 Shore D           Ingredient feeress wire insulation         165 Shore D           Impredient feeress wire insulation         162 Mg           Amount strands (wire)         7           Diameter of single wires         22 AWG           Conductor crosssection (wire)         22 AWG           Conductor diagness wire insulation         100 DN VDE 298.4           Current load capacity (strandard)         to DN VDE 298.4           Current load capacity (strandard)         to DN VDE 298.4           Current load capacity (strandard)	Filler	yes
Material jacket         PUR           Shore hardness jacket         89 Shore A           Freedom from Ingredents (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diamoter (jacket)         6,7 mm           Tolerance outer diamoter (heath)         ± 5 %           Material Inner jacket         FRNC           Color (mer jacket)         natur           Material wire insulation         PE           Amount wires         4           Outer diameter insulation         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 crossesocition (wire)         22 AWG           Conductor vire         Stranded copper wire, bare           Nominal valtage AC max         300 V           Current load capacity (standard)         to DIN VDE 0298.4           Current load capacity (wire wire)         2 kW @ 60 s           Electrical capacity jurin vive         4,8 A           AC withstand voltage (wire - wire)         2 kW @ 60 s           Electrical capacity jurin cons	wire arrangement	white, yellow, blue, orange
Shore hardness jacket         89 Shore A           Freedom from Ingredients (jacket)         6,7 mm           Out-d-dameter (jacket)         6,7 mm           Tolerance outer diameter (sheath)         ± 5 %           Material Inner jacket         FRINC           Color (inner jacket)         natur           Material Inner jacket         PRINC           Color (inner jacket)         natur           Material wire insulation         PE           Amount wires         4           User diameter insulation         1,4 mm           Outer diameter insulation         5 %           Shore hardness wire insulation         6 5 Shore D           Ingredient freeness wire insulation         6 5 Shore D           Ingredient freeness wire insulation         6 5 Shore D           Ingredient freeness wire insulation         2 2 AWG           Conductor strands (wire)         7           Diameter of single wires         22 AWG           Conductor crosssection (wire)         22 AWG           Conductor crosssection (wire)         22 AWG           Courrent back capacity (standard)         10 IN VDE 0298-4           Current back capacity (standard)         10 IN VDE 0298-4           Current back capacity (standard)         20 D Y E S Mm @ 20 *C	Cable weigth	69,3 g/m
Freedom from ingredients (jacket)   lead-free, cadmium-free, CFC-free, halogen-free, allicone-free	Material jacket	PUR
Outer-diameter (jacket)         6,7 mm           Tolerance outer diameter (sheath)         ± 5 %           Material imer jacket         FRNC           Color (inner jacket)         natur           Material wrie insulation         PE           Amount wises         4           Outer diameter insulation         1,4 mm           Outer diameter tolerance core insulation         6 % Shore D           Ingredient freeness wire insulation         68 % 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           Conductor crosssection (wire)         32 AWG           Courrent load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (wire wire)         2 KW @ 60 s           Electrical resistance line constant wire         55 Ωkm @ 20 °C           AG withstand voltage (wire - wire)         2 kW @ 60 s           Electrical problem (wire - wire)         2 kW @ 60 s           Electrical problem (wire - wire)         2 kW @ 60 s           Solation resistance         5000 MQ x km	Shore hardness jacket	89 Shore A
Tolerance outer diameter (sheath) ± 5 % Material inner jacket FRNC Cotor (inner jacket) natur Material wire insulation PE Amount wires 4  Couter diameter insulation 1,4 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 65 Shore D Ingredient freeness wire insulation 75 Shore D Ingredient freeness Shore D In	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Material inner jacket         FRNC           Color (ner jacket)         natur           Material wire insulation         PE           Amount wires         4           Outer diameter insulation         1.4 mm           Outer diameter forlerance core insulation         65 Shore D           Under diameter swire 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           Conductor crosssection (wire)         Stranded copper wire, bare           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 2098-4           Current load capacity (wire wire)         55 CMm @ 20 °C           Characteristic impedance         100 £1 5 % @ 100 MHz           Electrical resistance line constant vire         55 CMm @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Electrical resistance line constant vire - wire)         2 kV @ 60 s           Electrical resistand voltage (wire - sheld)         2 kV @ 60 s           Solotation resistance         50000 M x /m           Mn. operating imperature (static)	Outer-diameter (jacket)	6,7 mm
Color (inner jacket)         natur           Material wire insulation         PE           Anount wires         4           Outer diameter insulation         1,4 mm           Outer diameter blerance core insulation         5 %           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         65 Shore D           Anount 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 min. wire         4,8 A           Current load capacity min. wire         4,8 A           Characteristic impedance         100 Ω± 15 % 0 100 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           Solation resistance         5000 MΩ x km           Min. operating temperature (static)         40 °C	Tolerance outer diameter (sheath)	±5%
Material wire insulation         PE           Amount wires         4           Outer diameter insulation         1,4 mm           Outer diameter tolerance core insulation         2.5 %           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           Conductor vire         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           AC naracteristic impedance         1100 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           Isolation resistance         5000 MΩ × km           Min. operating temperature (static)         40 °C           Max. operating temperature (fixed)         80 °C           Operating temperature max. (dynamic)         70 °C           Flame resistance         Good, appli	Material inner jacket	FRNC
Amount wires 4 Outer diameter insulation 1,4 mm Outer diameter insulation ± 5 % Shore hardness wire 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 (standard) to DIN VDE 0298-4 Current load capacity ini. wire 4,8 A Characteristic impedance 100 Ω ± 15 % (0 10 MHz) Electrical resistance line constant wire 55 D/km @ 20 °C AC withstand voltage (wire - wire) 2 kV @ 60 s Electrical capacity ini 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 AC withstand voltage (wire - shield) 3 kV @ 60 s AC withstand voltage (wire - shield) 3 kV @ 60 s AC withstand voltage (wire - shield) 3 kV @ 60 s AC withstand voltage (wire - shield) 3 kV @ 60 s AC withstand voltage (wire - shield) 30 °C Operating temperature (static) 40 °C Max. operating temperature (static) 40 °C Max. operating temperature (static) 40 °C Max. operating temperature (static) 40 °C Gerating	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           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 resistance line constant (wire - wire)         2 kV @ 60 s           Electrical resistance villation 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 min. (dynamic)         70 °C           Claim pererature min. (dynamic)         70 °C	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 crossection (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)         to DIN YDE 0298-4           Current load capacity (standard)         to DIN YDE 0298-4           Current load capacity (standard)         2 kV @ 60 s           Electrical capacity (sta	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 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 (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 max. (dynamic)         70 °C           Operating temperature max. (dynamic)         70 °C           Flame resistance         IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2           chemical resistance         Goo	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 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 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 - sineld) 2 kV @ 60 s AC withstand voltage (wire - shield) 2 kV @ 60 s Soldation resistance 5000 MΩ × km Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C Operating temperature (fixed) 30 °C Operating temperature (mix. (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 68081-404 (Good, application-related testing Bending radius (fixed) 5 × Outer diameter Bending radius (fixed) 5 × Outer diameter Bending radius (dynamic) 12 × Outer diameter Bending radius (dynamic) 12 × Outer diameter Bending radius (dynamic) 3 mis @ 25 °C Traversing distance (C-track) 3 Mio. @ 25 °C Traversing distance (C-track) 3 ,3 mis @ 25 °C Traversing distance (C-track) 1 Mio. 25 °C Traversing distance (C-track) 1 Mio. 25 °C	Outer diameter tolerance core insulation	±5%
Amount strands (wire)         7           Diameter of single wires         22 AWG           Conductor crossection (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 inin. wire         4,8 A           Carrent load capacity inin. wire         4,8 A           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 - wire)         2 kV @ 60 s           Electrical capacity line constant (wire - wire)         2 kV @ 60 s           Solation resistance         50000 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         [EC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2           chemical resistance         Good. application-related testing           Gasoline resistance         Good, appl	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           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 (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           Oil resistance         DIN EN 60811-404   Good, application-related testing           Bending radius (fixed)         5 × Outer diameter	Ingredient freeness wire insulation	lead-free, CFC-free, halogen-free
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 - glacket)         2 kV @ 60 s           AC withstand voltage (wire - shield)         2 kV @ 60 s           Isolation resistance         5000 MM2 × km           Min. 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         Good, application-related testing           Gasoline resistance         DIN EN 60811-404   Good, application-related testing           Bending radius (fixed)         5 x Outer diameter	Amount strands (wire)	7
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           Oil resistance         DIN EN 60811-404   Good, application-related testing           Bending radius (fixed)         5 × Outer diameter           Bending radius (dynamic)         12 × Outer diameter <tr< td=""><td>Diameter of single wires</td><td>22 AWG</td></tr<>	Diameter of single wires	22 AWG
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 - wire) (sacket)         2 kV @ 60 s           Electrical 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 M is. @ 25 °C </td <td>Conductor crosssection (wire)</td> <td>22 AWG</td>	Conductor crosssection (wire)	22 AWG
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 50 $\Omega$ /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  Electrical capacity line constant (wire - wire) 50000 pF/km  Power frequency withstand voltage (wire - jacket) 2 kV @ 60 s  Electrical capacity line constant (wire - wire) 50000 pF/km  Power frequency withstand voltage (wire - shield) 2 kV @ 60 s  Electrical capacity line constant (wire - wire) 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 1EC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2  chemical resistance Good, application-related testing  Oil resistance Good, application-related testing  Oil resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 5 x Outer diameter  Bending radius (fixed) 12 x Outer diameter  No. of bending cycles (C-track) 3 Min. @ 25 °C  Traver sing distance (C-track) 5 m @ 25 °C  Traver sing distance (C-track) 3,3 m's @ 25 °C  Traver sing distance (C-track) 1 Min. 25 °C	Material conductor wire	Stranded copper wire, bare
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 - shield) $2  \text{kV} @ 60  \text{s}$ 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 (static) $40  ^{\circ} \text{C}$ Operating temperature min. (dynamic) $40  ^{\circ} \text{C}$ Operating temperature max. (dynamic) $40  ^{\circ} \text{C}$ Flame resistance $400  ^{\circ} \text{C}$ Gaod, application-related testing $400  ^{\circ} \text{C}$ Gaod, application-related testing $400  ^{\circ} \text{C}$ Oil resistance $400  ^{\circ} \text{C}$ Bending radius (fixed) $400  ^{\circ} \text{C}$ Bending radius (fixed) $400  ^{\circ} \text{C}$ Traversing distance (C-track) $400  ^{\circ} \text{C}$ Traversing distance (C-track) $400  ^{\circ} \text{C}$ Travel speed (C-track) $400  ^{\circ} \text{C}$ To or to resion cycles $400  ^{\circ} \text{C}$	Nominal voltage AC max.	300 V
Characteristic impedance $100 \Omega \pm 15 \% @ 100  MHz$ Electrical resistance line constant wire $55  \Omega / km @ 20  ^{\circ} C$ 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 $5000  M\Omega \times km$ Min. operating temperature (static) $40  ^{\circ} C$ Max. operating temperature (fixed) $80  ^{\circ} C$ Operating temperature min. (dynamic) $40  ^{\circ} C$ Operating temperature max. (dynamic) $40  ^{\circ} C$ Flame resistance $40  ^{\circ} C$ Gasoline resistance $40  ^{\circ} C$ Bending radius (fixed) $40  ^{\circ} C$ Traversing distance (C-track) $40  ^{\circ} C$	Current load capacity (standard)	to DIN VDE 0298-4
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 \( \text{ 60 s} \)  Electrical capacity line constant (wire - wire) 50000 pF/km  Power frequency withstand voltage (wire - jacket) 2 kV \( \text{ 60 s} \)  Solom 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 \( \green \) 1090   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 Min. \( \text{ 25 °C} \)  Traversing distance (C-track) 3,3 m/s \( \text{ 25 °C} \)  No. of torsion cycles 1 Min. 25 °C	Current load capacity min. wire	4,8 A
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 (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	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  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	Electrical resistance line constant wire	55 Ω/km @ 20 °C
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 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 - wire)	2 kV @ 60 s
jacket)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sIsolation resistance5000 MΩ × kmMin. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °COperating temperature min. (dynamic)-30 °COperating temperature max. (dynamic)70 °CFlame resistanceIEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)12 x Outer diameterNo. of bending cycles (C-track)3 Mio. @ 25 °CTraversing distance (C-track)5 m @ 25 °CTravel speed (C-track)3,3 m/s @ 25 °CNo. of torsion cycles1 Mio. 25 °C	Electrical capacity line constant (wire - wire)	50000 pF/km
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 $60332 \cdot 2 \cdot 2 \mid \text{UL } 1581  \S  1090 \mid \text{UL } 1581  \S  1100  \text{FT2}$ chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Oil resistance DIN EN $60811 \cdot 404 \mid \text{Good}$ , 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) $3  \text{Mio.} \otimes 25  ^{\circ}\text{C}$ Traversing distance (C-track) $5  \text{m} \otimes 25  ^{\circ}\text{C}$ Travel speed (C-track) $3, 3  \text{m/s} \otimes 25  ^{\circ}\text{C}$ No. of torsion cycles $1  \text{Mio.} 25  ^{\circ}\text{C}$	Power frequency withstand voltage (wire - jacket)	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  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 sing distance (C-track)  3,3 m/s @ 25 °C  Travel speed (C-track)  3,3 m/s @ 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 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	Isolation resistance	5000 MΩ × km
Operating temperature min. (dynamic) Operating temperature max. (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 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	Min. operating temperature (static)	-40 °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	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 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 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  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 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  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
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	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	Gasoline resistance	Good, application-related testing
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)	5 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	Bending radius (dynamic)	12 x Outer diameter
Travel speed (C-track) 3,3 m/s @ 25 °C  No. of torsion cycles 1 Mio. 25 °C	No. of bending cycles (C-track)	3 Mio. @ 25 °C
No. of torsion cycles 1 Mio. 25 °C	Traversing distance (C-track)	5 m @ 25 °C
	Travel speed (C-track)	3,3 m/s @ 25 °C
Torsion stress ± 180 °/m	No. of torsion cycles	1 Mio. 25 °C
	Torsion stress	± 180 °/m