

RJ45 male 45° up / RJ45 male 45° up shielded

PUR 1x4xAWG22 shielded gn UL/CSA+drag ch. 2m

Product fulfills requirements according to UN/ECE R118 **Ethernet CAT5** Male 45° on top – male 45° on top RJ45 - RJ45, 4-pole shielded

Further cable lengths on request.

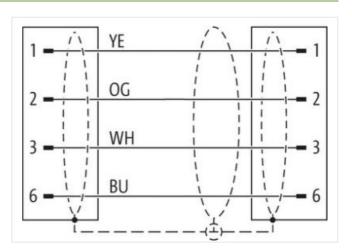
Plastic housings with good resistance against chemicals and oils.

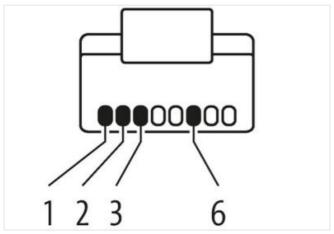
The resistance to aggressive media should be individually tested for your application. Further details on request.

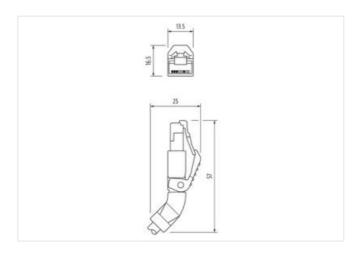
Link to Product

Illustration









Product may differ from Image















Cable length

2 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	4048879548953
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 fur	nctionality
duplex	Full duplex
<u> </u>	Full duplex
Device protection Electrical	
Degree of protection (EN IEC 60529)	IP20
Pollution Degree	3
Rated surge voltage	1 kV
Material group (IEC 60664-1)	
Mechanical data	
Contour for corrugated hose	without
Mechanical data Material data	
Material housing	PUR
Locking material	PA
Environmental characteristics Climatic	
Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
Important installation notes	
Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Note on bending radius	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Installation Cable	
wire arrangement	white, yellow, blue, orange
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 %



stay connected

white yellow, blue, orange Cable weight 68,3 g/m Mularial jacket 69,3 g	Banding	Fleece, Foil
Cable weight	Filler	yes
Material jacket PUR Shore hardness jacket	wire arrangement	white, yellow, blue, orange
Shore hardness jacket 89 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CPC-free, halogen-free, silloone-free Outer-diameter (jacket) 5.7 mm Tolerance outer diameter (sheath) ± 5 % Material inner jacket FRINC Color (inner jacket) natur Material inner jacket PER Manual wrises 4 Under diameter insulation 1,4 mm Outer diameter insulation 4,5 % Shore hardness wire insulation 5 % Shore hardness wire insulation 4,5 % Journal contents of single wires 2 km Object of single wires insulation 6 % Shore D Ingredient freeness wire insulation 1,4 mm Uniformative for single wires 2 kmQ Conductor cross-section (wire) 7 Diameter of single wires 2 kmQ Conductor cross-section (wire) 2 kmQ Outered toad capacity (inn. wire) 300 V Current load capacity (inn. wire) 4.8 A Current load capacity (inn. wire) 4.8 A Current load capacity (inn. wire) <td>Cable weigth</td> <td>69,3 g/m</td>	Cable weigth	69,3 g/m
Lead-free, cadmium-free, CFC-free, halogen-free, silicone-free	Material jacket	PUR
Outer diameter (jacket) 6,7 mm Tolerance outer diameter (sheath) ± 5 % Material inner jacket) natur Material wire insulation PE Material wire insulation PE Outer diameter insulation 1,4 mm 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 Conductor crosssection (wire) 22 AWG Control Load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4.8 A 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 interconstant (wire - wire) 2 kV @ 60 s Electrical resistance with the country withstand voltage (wi	Shore hardness jacket	89 Shore A
Tolerance outer diameter (sheath) ± 5 % Material inner jacket	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Material inner jacket FRNC Color (inner jacket) natur Adarterial wire nisulation PE Amount wires 4 Amount wires 1,4 mm Outer diameter insulation 5,5 % Shore hardness wire insulation 6,5 Shore D Ingredient freeness wire insulation 16,5 Shore D Ingredient freeness wire insulati	Outer-diameter (jacket)	6,7 mm
Color (inner jacket) natur 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 7 Diameter of single wires 22 AWG Conductor crossection (wire) 22 AWG Conductor crossection (wire) 25 CMG Courset load capacity min. wire 48 A Characteristic impedance 100 O± ± 5 % 100 MHz	Tolerance outer diameter (sheath)	±5%
Material wire insulation PE Amount wires 4 Douer diameter insulation 1,4 mm Outer diameter tolerance core insulation 55 % Shore hardness wire insulation 65 Shore D Ingredient freeness wire insulation 1 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 frain wire 4,8 A 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 apacity line constant (wire - wire) 2 kV @ 60 s Electrical apacity 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 Good, application-related testing Gasoline resistance DIN EN 80811-404 Good, application-related testing Gasoline resistance DIN EN 80811-404 Good, application-related testing Bending radius (fixed) 5 × Outer diameter No. of bending rycles (C-track) 5 m@ 25 °C Traversing distance (C-track) 5 m@ 25 °C Traversing distance (C-track) 5 m@ 25 °C Traversing distance (C-track) 1 Min. 25 °C	Material inner jacket	FRNC
Amount wires 4 Outer diameter insulation 1,4 mm Outer diameter insulation 5 ± 5 % Shore hardness wire insulation 65 Shore D Ingredient freeness wire insulation 1ead-free, CFC-free, halogen-free Amount strands (wire) 7 Diameter of sling wires 22 AWG Conductor crosssection (wire) 22 AWG Material conductor wire Stranded copper wire, bare Nomimal vottage 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 inin wire 4,8 A Characteristic impedance 100 Ω ± 15 % @ 100 MHz Electrical resistance line constant wire 50000 pF/km Power frequency 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 Standard voltage (wire - shield) 2 kV @ 60 s AC withstand voltage (wire - shield) 2 kV @ 60 s Solondarin resistance 5000 MΩ x km Min. operating temperature (fixed) 80 °C Operating temperature max. (dynamic) 70 °C Flame resistance EC 60332-2-2 UL 1581 § 1990 UL 1581 § 1100 FT2 chemical resistance DIN EN 66911-404 Good, application-related testing Dir esistance DIN EN 66911-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter No. of bending replies (C-track) 5 m @ 25 °C Traversing distance (C-track) 5 m @ 25 °C Traversing distance (C-track) 1 Min. 25 °C	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 capasity line constant (wire - wire) 2 kV @ 60 s Electrical resistance line constant (wire - wire) 2 kV @ 60 s AC withstand voltage (wire - shield) 2 kV @ 60 s Isolation resistance 5000 MΩ × km Min. operating temperature (static) 40 °C Operating temperature max. (dynamic) 70 °C Operating temperature max. (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 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 Mm @ 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 solation resistance 50000 MD x km Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) 70 °C Flamer resistance Geod, application-relate	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 with stand voltage (wire - shield) 2 kV @ 60 s AC withstand voltage (wire - shield) 2 kV @ 60 s Solation resistance 5000 MΩ × km Min. operating temperature (static) 40 °C Max. operating temperature max. (dynamic) 70 °C Operating temperature max. (dynamic) 70 °C Planter esistance IEC 60332-2-2 U. 1581 § 1090 U. 1581 § 1100 FT2 chemical resistance </td <td>Outer diameter insulation</td> <td>1,4 mm</td>	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 - shied) 2 kV @ 60 s Soldation resistance Min. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Max. operating temperature (static) -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 Bending radius (fixed) 5 × Cuter diameter Bending radius (dynamic) 12 × Cuter diameter Bending radius (dynamic) 5 × Cuter diameter Bending radius (dynamic) 5 × Cuter diameter No. of bending cycles (C-track) 5 m @ 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 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 - acket) 2 kV @ 60 s solution resistance 5000 MΩ × km Min. operating temperature (static) 40 °C Max. operating temperature (static) 40 °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 DN EN EN 6811-404 Good, application-related testing Gasoline resistance DN EN EN 6811-404 Good, application-related testing Bending radius (fixed) 5 × Outer diameter Bending radius (dynamic) 12 × Outer diameter Mox. of bending cycles (C-track) 3 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C Traversing distance (C-track) 5 m @ 25 °C Traversing distance (C-track) 1 Mio. 25 °C	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 - acket) 2 kV @ 60 s Acket) AC withstand voltage (wire - shield) 2 kV @ 60 s sold withstand voltage (wire - shield) 4 kV @ 60 s sold withstand voltage (wire - shield) 4 kV @ 60 s sold withstand voltage (wire - shield) 4 kV @ 60 s sold withstand voltage (wire - shield) 4 kV @ 60 s sold with with voltage (wire - shield) 4 kV @ 60 s sold with voltage (wire - shield) 2 kV @ 60 s sold with voltage (wire - shield) 2 kV @ 60 s sold with voltage (wire - shield) 2 kV @ 60 s </td <td>Ingredient freeness wire insulation</td> <td>lead-free, CFC-free, halogen-free</td>	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 - acket) 2 kV @ 60 s AC withstand voltage (wire - shield) 2 kV @ 60 s AC withstand voltage (wire - shield) 2 kV @ 60 s Max 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 Dil resistance DIN EN 60811-404 Good, application-rel	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 - acket) 2 kV @ 60 s AC withstand voltage (wire - shield) 2 kV @ 60 s solation resistance 5000 MM2 x km Min. operating temperature (static) -40 °C Max. operating temperature mix. (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 (gynamic) 12 x Outer diameter	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 - shield) 2 kV @ 60 s Solation resistance 5000 MΩ × km Min. 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 Bending radius (fixed) 5 × Outer diameter Bending radius (fixed) 5 m @ 25 °C Traversing distance (C-track) 3 Min. @ 25 °C No. of torsion cycles (C-track) 3, 3 m/s @ 25 °C No. of torsion cycles (C-track) 1 Min. 25 °C	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 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 AC withstand voltage (wire - shield) 2 kV @ 60 s Isolation resistance 5000 $M\Omega \times km$ Min. operating temperature (static) -40 °C 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 (fixed) 5 × Outer diameter Bending radius (dynamic) 12 × Outer diameter No. of bending cycles (C-track) 3 Mio. @ 25 °C Travel speed (C-track) 1 Mio. 25 °C No. of torsion cycles 1 Mio. 25 °C	Material conductor wire	Stranded copper wire, bare
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 - acket) 2 kV @ 60 s AC withstand voltage (wire - shield) 2 kV @ 60 s Isolation resistance 5000 M Ω × 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 (fixed) 5 × Outer diameter No. of bending cycles (C-track) 5 m @ 25 °C Travel speed (C-track) 3.3 m/s @ 25 °C Travel speed (C-track) 1 Mio. 25 °C	Nominal voltage AC max.	300 V
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) 50000pF/km Power frequency withstand voltage (wire - acket) $2 \text{kV} @ 60 \text{s}$ acket) $2 \text{kV} @ 60 \text{s}$ AC withstand voltage (wire - shield) $2 \text{kV} @ 60 \text{s}$ Solation 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) $40 ^{\circ} \text{C}$ Operating temperature max. (dynamic) $40 ^{\circ} \text{C}$ Electrical resistance $40 ^{\circ} \text{C}$ Electrical resistance $40 ^{\circ} \text{C}$ Good, application-related testing $40 ^{\circ} \text{C}$ Oil resistance $40 ^{\circ} \text{C}$ Bending radius (fixed) $40 ^{\circ} \text{C}$ Bending radius (dynamic) $40 ^{\circ} \text{C}$ Bending radius (dynamic) $40 ^{\circ} \text{C}$ Traversing distance (C-track) $40 ^{\circ} \text{C}$ Travel speed (C-track) $40 ^{\circ} \text{C}$ Travel speed (C-track) $40 ^{\circ} \text{C}$ 1 Mio. $25 ^{\circ} \text{C}$ Travel speed (C-track) $40 ^{\circ} \text{C}$	Current load capacity (standard)	to DIN VDE 0298-4
Electrical resistance line constant wire 55 \(\Omega \) \(\text{ Me} \) \(\text{ Q2 °C} \) AC withstand voltage (wire - wire) 2 kV \(\text{ Q6 0 s} \) Electrical capacity line constant (wire - wire) 50000 pF/km Power frequency withstand voltage (wire - acket) 2 kV \(\text{ Q6 0 s} \) AC withstand voltage (wire - shield) 2 kV \(\text{ Q6 0 s} \) Isolation resistance 5000 M\(\Omega \) km Min. operating temperature (static) 40 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -30 °C Operating temperature max. (dynamic) 70 °C Flame resistance IEC 60332-2-2 UL 1581 \(\xi \) 1090 UL 1581 \(\xi \) 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 No. of bending cycles (C-track) 3 Mio. \(\text{ Q25 °C} \) Traver sing distance (C-track) 3,3 m/s \(\text{ Q25 °C} \) Travel speed (C-track) 3,3 m/s \(\text{ Q25 °C} \) No. of torsion cycles 1 Mio. 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 - acket) 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 [EC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 × Outer diameter Bending radius (dynamic) 12 × Outer diameter No. of bending cycles (C-track) 5 m @ 25 °C Traversing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3, 3 m/s @ 25 °C Travel speed (C-track) 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 DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 × 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 Travel speed (C-track) 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 DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 12 x Outer diameter No. of bending cycles (C-track) 3 Mio. @ 25 °C Traversing distance (C-track) 3,3 m/s @ 25 °C Travel speed (C-track) 3,3 m/s @ 25 °C Travel speed (C-track) 1 Mio. 25 °C	AC withstand voltage (wire - wire)	2 kV @ 60 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 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -30 °C Operating temperature max. (dynamic) 70 °C Flame resistanceIEC $60332-2-2 \mid \text{UL} 1581 \S 1090 \mid \text{UL} 1581 \S 1100 \text{ FT2}$ chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN $60811-404 \mid \text{Good}$, application-related testingBending radius (fixed) $5 \times \text{Outer diameter}$ Bending radius (dynamic) $12 \times \text{Outer diameter}$ No. of bending cycles (C-track) $3 \text{ Mio.} @ 25 \text{ °C}$ Traversing distance (C-track) $5 \text{ m} @ 25 \text{ °C}$ Travel speed (C-track) $3,3 \text{ m/s} @ 25 \text{ °C}$ No. of torsion cycles $1 \text{ Mio.} 25 \text{ °C}$	Electrical capacity line constant (wire - wire)	50000 pF/km
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	Power frequency withstand voltage (wire - jacket)	2 kV @ 60 s
Min. operating temperature (static) Max. operating temperature (fixed) Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature min. (dynamic) Operating temperature max. (dynamic) IEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2 Chemical resistance Good, application-related testing 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 Traversing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 1 Mio. 25 °C	AC withstand voltage (wire - shield)	2 kV @ 60 s
Max. operating temperature (fixed) 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 Traver 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) 70 °C Flame resistance IEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2 Chemical resistance Good, application-related testing Gasoline resistance Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 12 x Outer diameter No. of bending cycles (C-track) 3 Mio. @ 25 °C Traver sing distance (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) 70 °C Flame resistance IEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 12 x Outer diameter No. of bending cycles (C-track) 3 Mio. @ 25 °C Traversing distance (C-track) 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)	°C 08
Flame resistance IEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 12 x Outer diameter No. of bending cycles (C-track) 3 Mio. @ 25 °C Traversing distance (C-track) 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 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