

## RJ45 male 0° / RJ45 male 0° shielded

PVC 1x4xAWG22 shielded gn UL/CSA+drag ch. 5m

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

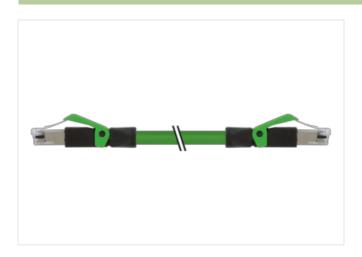
Further cable lengths on request.

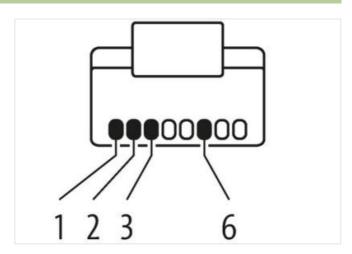
Plastic housings with good resistance against chemicals and oils.

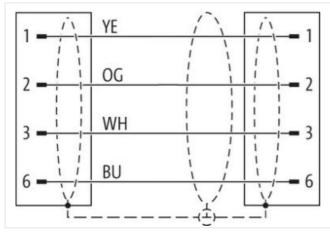
The resistance to aggressive media should be individually tested for your application. Further details on request.

## **Link to Product**

## Illustration









Product may differ from Image















Cable length

5 m

Side 1

Mounting method inserted

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: 2024-06-26



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	4048879540247
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
<u> </u>	Without
Mechanical data   Material data	
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	
•	Destruction and the second state of the second
Note on strain relief  Note on bending radius	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
·	Charigorea by excessive behaling holdes.
Installation   Cable	
wire arrangement	yellow, blue, orange, white
Cable identification	800
Jacket Color Type of Certificate	green cURus

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## stay connected

Cable shielding (type)         copper braid, tinned           Cable shielding (coverage)         85 %           Banding         Foll           Filler         yes           wine arrangement         yellow, blue, orange, white           Cable weight         73,7 g/m           Material packet         PVC           Shore hardness jacket         85 ± 5 Shore A           Freudern from ingradients (jacket)         6,6 mm           Tolerance outer diameter (jacket)         6,6 mm           Tolerance outer diameter (jacket)         6,6 mm           Tolerance outer diameter (jacket)         7,6 mm           Tolerance outer diameter (jacket)         1,53 mm           Olor (finner jacket)         natur           Material wire insulation         PE           Annount wires         4           Quiter diameter (jacket)         1,53 mm           Outer diameter (jacket)         1,53 mm           Outer diameter (jacket)         1,53 mm           Outer diameter (jacket)         1,53 mm           Diameter (jacket)         1,53 mm           Diameter (jacket)         5,5 %           Diameter (jacket)         1,52 mm           Diameter (jacket)         5,5 %           Diameter (jacket) <th>Amount stranding</th> <th>1</th>	Amount stranding	1
Cable shedring (coverage)         85 %           Bandring         Foil           Filler         yes           wire arrangement         yellow, blue, orange, white           Cable weight         73.7 g/m           Material jacket         PVC           Shore hardness jacket         85 ± 5 Shore A           Freedom from ingerdents (jacket)         6,6 mm           Tolerance outer diameter (shearth)         ± 5 %           Material inner jacket         FNNC           Color (inner jacket)         natur           Material wire insulation         PE           Anount wires         4           Quiter diameter (shearth)         ± 5 %           Shore hardness wire insulation         PE           Anount wires         4           Quiter diameter (shearth orange core insulation)         55 ± 5 Shore D           Shore hardness wire insulation         55 ± 5 Shore D           Shore hardness wire insulation         55 ± 5 Shore D           Ingredient freeness wire insulation         52 ± 3 Shore A           Ingredient freeness wire insulation         52 ± 3 Shore A           Shore hardness wire insulation         52 ± 3 Shore A           Conductor crosssection (wire)         22 AWG           Conductor crosssection	Stranding	4 wires around Filler star-shaped twisted
Cabie shedring (coverage)         85 %           Bandring         Foil           Filler         yes           wire arrangement         yellow, blue, orange, white           Cabie weight         73.7 g/m           Material jacket         PVC           Shore hardness jacket         85 ± 5 Shore A           Freedom from ingerderists (jacket)         6,6 mm           Tolerance outer diameter (sheath)         ± 5 %           Material inner jacket         FRNC           Color (inner jacket)         natur           Material wire insulation         PE           Anount wires         4           Quiter diameter (insulation)         FRNC           Unter diameter (insulation)         55 ± 5 Shore D           Shore hardness wire insulation         55 ± 5 Shore D           Under diameter (insulation)         55 ± 5 Shore D           Shore hardness wire insulation         55 ± 5 Shore D           Shore hardness wire insulation         55 ± 5 Shore D           Shore hardness wire insulation         52 ± 3 Shore D           Ingredient freeness wire insulation         52 ± 3 Shore D           Shore of single wires         22 AWG           Conductor crossection (wire)         22 AWG           Conductor crossection (	Cable shielding (type)	copper braid, tinned
Filler yes wire arrangement yellow, blue, orange, white Cable weigh 73,7 g/m Material jacket PVC Material jacket Preadom from ingredients (gacket) lead-free, CPC-free Outer diameter (jacked) 6,6 mm Toferance outer diameter (sekat) 1,5 % Material inner jacket FINIC Color (inner jacket) natur Material inner jacket PE Amount wires 4 Amount wires 4 Amount wires 4 Amount wires 4 Amount wire insulation PE Amount wire insulation 55 5 5 5 Shore D Ingredient freeness wire insulation 55 5 5 Shore D Ingredient freeness wire insulation 7 Diameter of single wires 22 AWG Material owner jacket (insulation) 7 Diameter of single wires 22 AWG Material owner jacket (insulation) 8 Material owner jacket (insulation) 10 Diameter of single wires 22 AWG Material owner jacket (insulation) 10 Material owner jacket (insulation) 10 Diameter of single wires 22 AWG Material owner jacket (insulation) 10 Material owner jacket (insulation) 10 Material owner jacket (insulation) 10 Diameter of single wires 22 AWG Material owner jacket (insulation) 10 Material owner jacket (ins	Cable shielding (coverage)	85 %
wire arrangement yellow, blue, orange, white Cable weight 73,7 g/m Malerial jacket PVC Shore hardness jacket 85 ± 5 Shore A Freedom from ingredents (jacket) lead-free, CFC-free Outer diameter (jacket) 6,8 mm Tolerance outer diameter (shealth) ± 5 % Material inner jacket FRNC Color (inner jacket) natur Material inner jacket FRNC Color (inner jacket) natur Material wire insulation PE Amount wires 4 Outer diameter (shealth) ± 5 % Shore hardness wire insulation PE Amount wires 5 ± 5 Shore D Shore hardness wire insulation 1,53 mm Outer diameter (shearse core insulation 1 ± 5 % Shore hardness wire insulation 1 ± 5 % Diameter of single wires 2 ± AWG Conductor crossection (wire) 22 AWG Conductor crossection (wire) 22 AWG Conductor crossection (wire) 22 AWG Cornel to da capacity (slandard) to DIN VDE 0298-4 Current load capacity (slandard) to DIN VDE 0298-4 Current load capacity (in wire wire) 50 QHz (in Wire) 20 °C Card distinct of the properties of	Banding	Foil
Cable weigth         73.7 g/m           Material jacket         PVC           Shore hardness jacket         85 ± 5 Shore A           Freedom from ingredients (jacket)         lead free, CFC-free           Outer-diameter (jacket)         5,6 mm           Tolerance user diameter (sheath)         ± 5 %           Material inner jacket         FRINC           Color (inner jacket)         natur           Material wire insulation         PE           Amount wires         4           Outer diameter insulation         ± 5 %           Shore hardness wire insulation         ± 5 %           Shore hardness wire insulation         ± 5 %           Ingredient freeness wire insulation         ± 5 %           Shore hardness wire insulation         ± 5 %           Shore a free, CFC-free, halogen-free         —           Amount strands (wire)         7           Diameter of single wires         22 AWG           Conductor crosssection (wire)         22 AWG           Material conductor wire         Standed copper wire, bare           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity wirin. wire         4.8 A           Characteristi	Filler	yes
Material jacket         PVC           Shore hardness jacket         85 ± S Shore A           Freedom from ingredients (jacket)         lead-free, CFC-free           Outer-diameter (jacket)         6,6 mm           Tolerance outer diameter (sheath)         ± 5 %           Material inner jacket)         FRNC           Color (inner jacket)         natur           Material wire insulation         PE           Amount wires         4           Outer diameter insulation         1,53 mm           Outer diameter insulation         5 ± 5 Shore D           Ingrestient freeness wire insulation         5 ± 5 Shore D           Ingrestient freeness wire insulation         1,53 mm           Outer diameter obligation (spide wire)         22 AWG           Conductor cressescion (wire)         22 AWG           Conductor cressescion (wire)         22 AWG           Conductor cressescion (wire)         23 AWG           Material conductor wire         Stranded copper wire, bare           Nourent load capacity (strain-wire)         4,8 A           Current load capacity (strain-wire)         4,8 A           Characteristic impedance         100 Ω± 15 %@ 1 MHz           Electrical resistance line constant wire         55 Ω/km @ 20 °C           AC withstand vol	wire arrangement	yellow, blue, orange, white
Shore hardness jacket         85 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, CFC-free           Outer-diameter (jacket)         5.6 mm           Tolerance outer diameter (sheath)         ± 5 %           Material inner jacket         FRNC           Color (inner jacket)         natur           Meterial wire insulation         PE           Amount wires         4           Outer diameter lorerance core insulation         1,53 mm           Outer diameter tolerance core insulation         55 ± 5 Shore D           Ingredient freeness wire insulation         55 ± 5 Shore D           Ingredient freeness wire insulation         16 and 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 vollage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Characteristic impedance         10	Cable weigth	73,7 g/m
Freedom from Ingredients (jacket)         lead-free, CFC-free           Outer-diameter (jacket)         6.6 mm           Toferance outer diameter (sheath)         ± 5 %           Material inner jacket         FRNC           Color (mer jacket)         natur           Material wire insulation         PE           Amount wires         4           Outer diameter risulation         1,53 mm           Outer diameter risulation         55 ± 5 Shore D           Ingredient freeness wire insulation         55 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, CFC-free, halogen-free           Amount strands (wire)         7           Diameter of slient wires         22 AWG           Conductor crossection (wire)         22 AWG           Conductor crossection (wire)         22 AWG           Contract rossection (wire)         22 AWG           Corrent load capacity firm, wire         4.8 A           Current load capacity firm, wire         4.8 A           Current load capacity firm, wire         4.8 A           Current load capacity firm, wire         55 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Electrical capacity line constant (wire - wire)         50000 pF/km           Powe	Material jacket	PVC
Outer-diameter (jacket)         6,6 mm           Tolerance outer diameter (sheath)         ± 5 %           Material inner jacket         FRNC           Color (inner jacket)         natur           Material wire insulation         PE           Amount wires         4           Outer diameter insulation         1,53 mm           Outer diameter tolerance core insulation         ± 5 %           Shore bardness wire insulation         55 ± 5 Shore D           Ingredient freeness wire insulation         16ad-re, 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)         10 DIN VDE 298-4           Current load capacity min. wire         4,8 A           Characteristic impedance         100 Ω ± 15 % @ 1 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           Min. operating temperature (fixeet)         30 °C <td>Shore hardness jacket</td> <td>85 ± 5 Shore A</td>	Shore hardness jacket	85 ± 5 Shore A
Tolerance outer diameter (sheath) ± 5 %  Material inner jacket FRNC Color (inner jacket) natur  Material wire insulation PE  Amount wires 4  Outer diameter insulation 1,53 mm Outer diameter tolerance core insulation 2 5 %  Shore hardness wire insulation 55 ± 5 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) 10 DIN VDE 0298-4  Current load capacity (standard) 10 DIN VDE 0298-4  Current load capacity min. wire 4.8 A  Characteristic impedance 100 Ω ± 15 % Ø 1 MHz  Electrical resistance line constant wire 55 Ω/km Ø 20 °C  AC withstand voltage (wire - wire) 50000 pF/km  Power frequency withstand voltage (wire - wire) 50000 pF/km  Power frequency withstand voltage (wire - shield) 2 kV Ø 60 s  Min. operating temperature (static) 30 °C  Max. operating temperature (static) 30 °C  Max. operating temperature min. (dynamic) 10 °C  Operating temperature min. (dynamic) 10 °C  Operating temperature min. (dynamic) 10 °C  Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 5 x Outer diameter  Bending radius (fixed) 5 x Outer diameter  Bending radius (fixed) 5 x Cuter diameter  No. of bending cycles (C-track) 2 Min. Ø 25 °C	Freedom from ingredients (jacket)	lead-free, CFC-free
Material inner jacket         FRNC           Color (inner jacket)         natur           Material wire insulation         PE           Amount wires         4           Outer diameter insulation         1,53 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         55 ± 5 Shore D           Ingredient freeness wire insulation         15 ± 5 Shore D           Ingredient freeness wire insulation         16 ± 7 Shore Particulation           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 VDE 0298-4           Current load capacity min. wire         4,8 A           Characteristic impedance         100 Ω ± 15 % @ 1 MHz           Electrical resistance line constant (wire - wire)         55 Ωkm @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Electrical resistance line constant (wire - wire)         2 kV @ 60 s           AC withstand voltage (wire - shield) </td <td>Outer-diameter (jacket)</td> <td>6,6 mm</td>	Outer-diameter (jacket)	6,6 mm
Color (inner jacket)         natur           Material wire insulation         PE           Amount wires         4           Outer diameter insulation         1,53 mm           Outer diameter bilderance core insulation         ± 5 %           Shore hardness wire insulation         55 ± 5 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 min. wire         4,8 A           Characteristic impedance         100 Ω± 15 % @ 1 MHz           Electrical resistance ine 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 (withstand voltage (wire - shield)         2 kV @ 60 s           Max. operating temperature (static)         30 °C           Max. op	Tolerance outer diameter (sheath)	± 5 %
Material wire insulation         PE           Amount wires         4           Outer diameter insulation         1,53 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         55 ± 5 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 % @ 1 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 percepture wire stand voltage (wire - shield)         2 kV @ 60 s           AC withstand voltage (wire - shield)         2 kV @ 60 s           AC withstand voltage (wire - shield)         2 kV @ 60 s           AC withstand voltage (wire - shield)         2 kV @ 60 s	Material inner jacket	FRNC
Amount wires         4           Outer diameter insulation         1,53 mm           Outer diameter tolerance core insulation         55 ± 5 Shore D           Ingredient freeness wire insulation         163 ± 5 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 min. wire         4,8 A           Characteristic impedance         100 Ω ± 15 % @ 1 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 capacity line constant (wire - wire)         2 kV @ 60 s           AC withstand voltage (wire - shield)         2 kV @ 60 s           Mn. operating temperature (static)         30 °C           Max. operating temperature (static)         30 °C <td>Color (inner jacket)</td> <td>natur</td>	Color (inner jacket)	natur
Outer diameter insulation         1,53 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         55 ± 5 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 (standa	Material wire insulation	PE
Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         55 ± 5 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 % @ 1 MHz           Electrical resistance line constant wire         55 Ωkm @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Electrical capacity line constant (wire - wire)         50000 pF/km           Power frequency withstand voltage (wire - shield)         2 kV @ 60 s           AC withstand voltage (wire - shield)         2 kV @ 60 s           Min. operating temperature (static)         -30 °C           Max. operating temperature (fixed)         80 °C           Operating temperature min. (dynamic)         -10 °C           Plame resistance         Good, application-related testing           Gasoline resistance <td< td=""><td>Amount wires</td><td>4</td></td<>	Amount wires	4
Shore hardness wire insulation         55 ± 5 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 (wire wire)         4,8 A           Characteristic impedance         100 Ω ± 15 % @ 1 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           AC withstand voltage (wire - shield)         2 kV @ 60 s           AC withstand voltage (wire - shield)         2 kV @ 60 s           Min. operating temperature (fixed)         30 °C           Max. operating temperature (fixed)         80 °C           Operating temperature min. (dynamic)         -10 °C           Operating temperature min. (dynamic)         -70 °C           Flame resistance         Good, application	Outer diameter insulation	1,53 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 min. wire 4.8 A  Characteristic impedance 100 Ω± 15 % @ 1 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 - 2 kV @ 60 s  AC withstand voltage (wire - shield) 2 kV @ 60 s  AC withstand voltage (wire - shield) 2 kV @ 60 s  Min. operating temperature (fixed) 80 °C  Operating temperature (fixed) 80 °C  Cperating temperature min. (dynamic) -10 °C  Operating temperature max. (dynamic) -10 °C  Flame resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Oil resistance Good, application-related testing I DIN EN 60811-404  Bending radius (fixed) 5 x Outer diameter  Bending radius (fixed) 2 Min. @ 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  Mominal 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 % @ 1 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) 2 kV @ 60 s  Electrical capacity line constant (wire wire) 50000 pF/km  Power frequency withstand voltage (wire - 30 °C  AC withstand voltage (wire - shield) 2 kV @ 60 s  Min. operating temperature (static) -30 °C  Max. operating temperature (static) -30 °C  Operating temperature max. (dynamic) -10 °C  Operating temperature max. (dynamic) 70 °C  Flame resistance UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2  chemical resistance Good, application-related testing  Gli resistance Good, application-related testing  Oil resistance Good, application-related testing  Oil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 5 x Outer diameter  No. of bending cycles (C-track) 2 Min. @ 25 °C	Shore hardness wire insulation	55 ± 5 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 % @ 1 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 - slacket)         2 kV @ 60 s           AC withstand voltage (wire - shield)         2 kV @ 60 s           Min. operating temperature (static)         -30 °C           Max. operating temperature (fixed)         80 °C           Operating temperature min. (dynamic)         -10 °C           Operating temperature max. (dynamic)         70 °C           Flame resistance         UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2           chemical resistance         Good, application-related testing           Oil resistance         Good, application-related testing   DIN EN 60811-404           Bending radius (fixed)         5 x 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 % @ 1 MHz           Electrical resistance line constant wire         55 ½ 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           Min. operating temperature (static)         -30 °C           Max. operating temperature (static)         30 °C           Max. operating temperature min. (dynamic)         -10 °C           Operating temperature max. (dynamic)         -10 °C           Operating temperature max. (dynamic)         -0 °C           Flame resistance         UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2           chemical resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Oil resistance         Good, application-related testing	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 $100 \Omega \pm 15\% @ 1 \text{ MHz}$ Electrical resistance line constant wire $55 \Omega / \text{km} @ 20 ° \text{C}$ AC withstand voltage (wire - wire) $2 \text{ kV} @ 60 \text{ s}$ Electrical capacity line constant (wire - wire) $2 \text{ kV} @ 60 \text{ s}$ Electrical capacity line constant (wire - wire) $2 \text{ kV} @ 60 \text{ s}$ Electrical capacity line constant (wire - wire) $2 \text{ kV} @ 60 \text{ s}$ AC withstand voltage (wire - shield) $2 \text{ kV} @ 60 \text{ s}$ AC withstand voltage (wire - shield) $2 \text{ kV} @ 60 \text{ s}$ Min. operating temperature (static) $-30 ° \text{C}$ Max. operating temperature (fixed) $80 ° \text{C}$ Operating temperature min. (dynamic) $-10 ° \text{C}$ Operating temperature max. (dynamic) $-70 ° \text{C}$ Flame resistance UL $1581 \S 1090   \text{ UL } 1581 \S 1100 \text{ FT2}   \text{ IEC } 60332-2-2}$ chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Oil resistance Good, application-related testing  Oil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) $5 \times \text{Outer diameter}$ Bending radius (dynamic) $15 \times \text{Outer diameter}$ Bending radius (dynamic) $2 \text{ Mio. } @ 25 ° \text{C}$	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 $100 \Omega \pm 15 \% @ 1 \text{ MHz}$ 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) $50000 \text{ pF} / \text{km}$ Power frequency withstand voltage (wire - shield) $2 \text{ kV} @ 60 \text{ s}$ AC withstand voltage (wire - shield) $2 \text{ kV} @ 60 \text{ s}$ Min. operating temperature (static) $-30 ^{\circ}\text{C}$ Max. operating temperature (fixed) $80 ^{\circ}\text{C}$ Operating temperature min. (dynamic) $-10 ^{\circ}\text{C}$ Operating temperature max. (dynamic) $70 ^{\circ}\text{C}$ Flame resistance UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2 chemical resistance  Good, application-related testing  Gasoline resistance Good, application-related testing  Oil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) $5 \times \text{Outer diameter}$ Bending radius (dynamic) $15 \times \text{Outer diameter}$ No. of bending cycles (C-track) $2 \text{ Mio. @ 25 °C}$	Conductor crosssection (wire)	22 AWG
Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4,8 A  Characteristic impedance $100 \Omega \pm 15\% \Omega$ in MHz  Electrical resistance line constant wire $55 \Omega$ /km $@ 20 ^{\circ}$ C  AC withstand voltage (wire - wire) $2 \text{ kV} @ 60 \text{ s}$ Electrical capacity line constant (wire - wire) $50000 \text{ pF/km}$ Power frequency withstand voltage (wire - jacket) $2 \text{ kV} @ 60 \text{ s}$ Electrical capacity line constant (wire - wire) $2 \text{ kV} @ 60 \text{ s}$ Electrical capacity line constant (wire - wire) $2 \text{ kV} @ 60 \text{ s}$ AC withstand voltage (wire - shield) $2 \text{ kV} @ 60 \text{ s}$ Min. operating temperature (static) $30 ^{\circ}$ C  Max. operating temperature (fixed) $80 ^{\circ}$ C  Operating temperature min. (dynamic) $-10 ^{\circ}$ C  Operating temperature max. (dynamic) $70 ^{\circ}$ C  Flame resistance UL $1581 \$ 1090   \text{UL} 1581 \$ 1100 \text{ FT2}   \text{IEC } 60332 \cdot 2 \cdot 2$ chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Oil resistance Good, application-related testing   DIN EN $60811 \cdot 404$ Bending radius (fixed) $5 \times \text{Outer diameter}$ Bending radius (dynamic) $15 \times \text{Outer diameter}$ Bending radius (dynamic) $2 \times \text{Mio.} @ 25 ^{\circ}\text{C}$	Material conductor wire	Stranded copper wire, bare
Current load capacity min. wire 4,8 A  Characteristic impedance $100 \Omega \pm 15 \% @ 1 \text{ MHz}$ Electrical resistance line constant wire $55 \Omega \text{/km} @ 20 \text{ °C}$ AC withstand voltage (wire - wire) $2 \text{ kV} @ 60 \text{ s}$ Electrical capacity line constant (wire - wire) $50000 \text{ pF/km}$ Power frequency withstand voltage (wire - jacket) $2 \text{ kV} @ 60 \text{ s}$ AC withstand voltage (wire - shield) $2 \text{ kV} @ 60 \text{ s}$ AC withstand voltage (wire - shield) $2 \text{ kV} @ 60 \text{ s}$ Min. operating temperature (static) $-30 \text{ °C}$ Max. operating temperature (fixed) $80 \text{ °C}$ Operating temperature min. (dynamic) $-10 \text{ °C}$ Operating temperature max. (dynamic) $70 \text{ °C}$ Flame resistance $0 \text{ UL} 1581 \$ 1090 \text{   UL} 1581 \$ 1100 \text{ FT2} \text{   IEC} 60332-2-2}$ chemical resistance $0 \text{ Good, application-related testing}$ Gasoline resistance $0 \text{ Good, application-related testing}$ Oil resistance $0 \text{ Good, application-related testing}$ Bending radius (fixed) $0 \text{ S} \times 0 \text{ Uter diameter}$ Bending radius (dynamic) $0 \text{ S} \times 0 \text{ Uter diameter}$ Bending radius (dynamic) $0 \text{ S} \times 0 \text{ Uter diameter}$ Bending radius (cynamic) $0 \text{ Min. @ 25 °C}$	Nominal voltage AC max.	300 V
Characteristic impedance $100 \Omega \pm 15 \% @ 1 \text{ MHz}$ Electrical resistance line constant wire $55 \Omega / \text{km} @ 20 \degree \text{C}$ AC withstand voltage (wire - wire) $2 \text{ kV} @ 60 \text{ s}$ Electrical capacity line constant (wire - wire) $50000 \text{ pF/km}$ Power frequency withstand voltage (wire - jacket) $2 \text{ kV} @ 60 \text{ s}$ AC withstand voltage (wire - shield) $2 \text{ kV} @ 60 \text{ s}$ Min. operating temperature (static) $30 \degree \text{C}$ Max. operating temperature (fixed) $80 \degree \text{C}$ Operating temperature min. (dynamic) $70 \degree \text{C}$ Operating temperature max. (dynamic) $70 \degree \text{C}$ Flame resistance $UL 1581 \S 1090   UL 1581 \S 1100 \text{ FT2}   \text{ IEC } 60332\text{-}2\text{-}2$ chemical resistance $Good$ , application-related testing  Gasoline resistance $Good$ , application-related testing  Oil resistance $Good$ , application-related testing $IOIN EN EN$	Current load capacity (standard)	to DIN VDE 0298-4
Electrical resistance line constant wire 55 \(\Omega\)/km \(\text{@ 20 °C}\)  AC withstand voltage (wire - wire) 2 kV \(\text{@ 60 s}\)  Electrical capacity line constant (wire - wire) 50000 pF/km  Power frequency withstand voltage (wire - jacket) 2 kV \(\text{@ 60 s}\)  AC withstand voltage (wire - shield) 2 kV \(\text{@ 60 s}\)  Min. operating temperature (static) -30 °C  Max. operating temperature (fixed) 80 °C  Operating temperature min. (dynamic) -10 °C  Operating temperature max. (dynamic) 70 °C  Flame resistance UL 1581 \(\frac{1}{8}\) 1090   UL 1581 \(\frac{8}{3}\) 1100 FT2   IEC 60332-2-2  chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Oil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 15 x Outer diameter  No. of bending cycles (C-track) 2 Mio. \(\text{@ 25 °C}\)	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  Min. operating temperature (static)  -30 °C  Max. operating temperature (fixed)  80 °C  Operating temperature min. (dynamic)  -10 °C  Operating temperature max. (dynamic)  70 °C  Flame resistance  UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2  chemical resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing  Oil resistance  Good, application-related testing   DIN EN 60811-404  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic)  15 x Outer diameter  No. of bending cycles (C-track)  2 Mio. @ 25 °C	Characteristic impedance	100 Ω ± 15 % @ 1 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  Min. operating temperature (static) -30 °C  Max. operating temperature (fixed) 80 °C  Operating temperature min. (dynamic) -10 °C  Operating temperature max. (dynamic) 70 °C  Flame resistance UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2  chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Oil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 5 x Outer diameter  No. of bending cycles (C-track) 2 Mio. @ 25 °C	Electrical resistance line constant wire	55 Ω/km @ 20 °C
Power frequency withstand voltage (wire - jacket)  AC withstand voltage (wire - shield)  2 kV @ 60 s  Min. operating temperature (static)  30 °C  Max. operating temperature (fixed)  80 °C  Operating temperature min. (dynamic)  -10 °C  Operating temperature max. (dynamic)  70 °C  Flame resistance  UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2  chemical resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing  Oil resistance  Good, application-related testing   DIN EN 60811-404  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic)  15 x Outer diameter  No. of bending cycles (C-track)  2 Mio. @ 25 °C	AC withstand voltage (wire - wire)	2 kV @ 60 s
AC withstand voltage (wire - shield)  AC with the shield voltage (with the shield)  AC	Electrical capacity line constant (wire - wire)	50000 pF/km
Min. operating temperature (static)  Max. operating temperature (fixed)  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  To °C  UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2  Chemical resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing  Oil resistance  Good, application-related testing   DIN EN 60811-404  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic)  15 x Outer diameter  No. of bending cycles (C-track)  2 Mio. @ 25 °C	Power frequency withstand voltage (wire - jacket)	2 kV @ 60 s
Max. operating temperature (fixed) 80 °C  Operating temperature min. (dynamic) -10 °C  Operating temperature max. (dynamic) 70 °C  Flame resistance UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2  chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Oil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 15 x Outer diameter  No. of bending cycles (C-track) 2 Mio. @ 25 °C	AC withstand voltage (wire - shield)	2 kV @ 60 s
Max. operating temperature (fixed) 80 °C  Operating temperature min. (dynamic) -10 °C  Operating temperature max. (dynamic) 70 °C  Flame resistance UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2  chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Oil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 15 x Outer diameter  No. of bending cycles (C-track) 2 Mio. @ 25 °C	Min. operating temperature (static)	-30 °C
Operating temperature max. (dynamic)  70 °C  Flame resistance  UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2  chemical resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing  Oil resistance  Good, application-related testing   DIN EN 60811-404  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic)  15 x Outer diameter  No. of bending cycles (C-track)  2 Mio. @ 25 °C	Max. operating temperature (fixed)	80 °C
Flame resistance UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2  chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Oil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 15 x Outer diameter  No. of bending cycles (C-track) 2 Mio. @ 25 °C	Operating temperature min. (dynamic)	-10 °C
chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 15 x Outer diameter  No. of bending cycles (C-track) 2 Mio. @ 25 °C	Operating temperature max. (dynamic)	70 °C
Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 15 x Outer diameter  No. of bending cycles (C-track) 2 Mio. @ 25 °C	Flame resistance	UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2
Oil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 15 x Outer diameter  No. of bending cycles (C-track) 2 Mio. @ 25 °C	chemical resistance	Good, application-related testing
Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 15 x Outer diameter  No. of bending cycles (C-track) 2 Mio. @ 25 °C	Gasoline resistance	Good, application-related testing
Bending radius (dynamic) 15 x Outer diameter  No. of bending cycles (C-track) 2 Mio. @ 25 °C	Oil resistance	Good, application-related testing   DIN EN 60811-404
Bending radius (dynamic) 15 x Outer diameter  No. of bending cycles (C-track) 2 Mio. @ 25 °C	Bending radius (fixed)	5 x Outer diameter
No. of bending cycles (C-track) 2 Mio. @ 25 °C	Bending radius (dynamic)	15 x Outer diameter
	No. of bending cycles (C-track)	2 Mio. @ 25 °C
Traversing distance (C-track) 5 m @ 25 °C	Traversing distance (C-track)	5 m @ 25 °C
	Travel speed (C-track)	