

## RJ45 Push Pull male 45° with cable AIDA

PUR 1x4xAWG22 shielded gn UL/CSA+drag ch. 3m

Product fulfills requirements according to UN/ECE R118

**Ethernet CAT5** 

Male straight

RJ45PP, 4-pole

shielded

Push Pull

Further cable lengths on request.

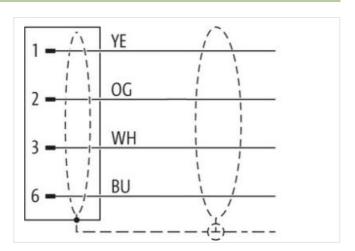
Plastic housings with good resistance against chemicals and oils.

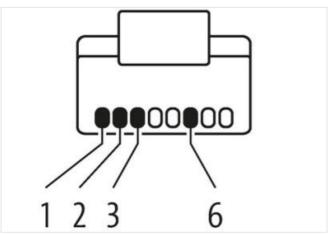
The resistance to aggressive media should be individually tested for your application. Further details on request.

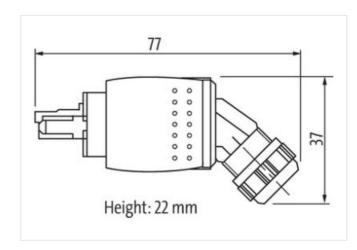
## **Link to Product**

## Illustration









Product may differ from Image









Cable length

3 m



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	4048879375016
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.	1,76 A
Industrial communication	
Transfer parameters	CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)
Data transmission rate max.	100 MBit/s
Industrial communication   Ethernet fun	ctionality
duplex	Full duplex
Device protection   Electrical	
Degree of protection (EN IEC 60529)	IP65, IP67
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	
Coating locking	Nickeled
Locking material	Zinc die-casting
Mechanical data   Mounting data	
Looking techniques	Push Pull
Environmental characteristics   Climatic	
·	-25 °C
Operating temperature min.  Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
	depending on cable quality
Important installation notes	
Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Note on bending radius	<b>Attention:</b> Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Installation   Cable	
Cable identification	796
Jacket Color	green
Type of Certificate	cURus
Amount stranding	1
Stranding	4 wires around Core filler twisted
Cable shielding (type)	copper braid, tinned



## stay connected

Banding Fleece, Foli Filter yes were arrangement white, yellow, blue, orange Gable weigh 98.3 g/m Material jacket PIR Shore hardness jacket 99 Shore A Freedom from ingredients (jacket) 199 Shore A Freedom from ingredients (jacket) 190 Shore A Freedom from ingredients (jacket) 190 Shore A Freedom from ingredients (jacket) 190 Shore A Material inner jacket) 190 Shore A Material inner jacket 190 Shore A Material inner jack	Cable shielding (coverage)	85 %
Filter wite arrangement white, yellow, blue, orange Gable weight 69.3 gm Material packet PUR  Norw Indicates Jacket PUR  Freedom from ingredients (jacket) Outer-diameter (jacket) Outer-diameter (jacket) Outer-diameter (jacket) 15 % Material inner jacket Color (inner jacket) FIRNC FIRN	Banding	Fleece, Foil
wire surragement         white, yellow, blue, orange           Cable weight         69.3 g/m           Markental jacket         PUR           Shore hardness jacket         99 Shore A           Freedom from ingedianthe (jacket)         16.4 fives, cadmium-free, CFC-free, halogen-free, silicone-free           Outer diameter (jacket)         5,7 mm           Tolerance outer diameter (sheath)         2,5 %           Markerial wire insulation         FINC           Color (inner jacket)         natur           Markerial wire insulation         PE           Armount wires         4           Outer diameter (solution)         1,4 mm           Outer diameter (solution)         1,4 mm           Outer diameter (solution)         4,5 mm           Outer diameter (solution)         4,5 mm           Outer diameter (solution)         1,4 mm           Outer diameter (solution)         4,5 mm           Outer diameter (solution)         2,2 km           Shore harrings wire insulation         4,5 mm           Ingredient freeness wire insulation         4,5 mm	Filler	
Cable weight         69.3 g/m           Material packet         PUR           Freedom from Ingredients (packet)         89 Shore A           Freedom from Ingredients (packet)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outver-diameter (jacket)         6,7 mm           Tolerance outer diameter (without)         1.5 %           Material inner jacket         FRNC           Color (inner jacket)         natur           Material wire insulation         PE           Amount wires         4           Culter diameter tolerance core insulation         1,4 mm           Outer diameter insulation         1,4 mm           Outer diameter insulation         1.5 %           Ingredient freeness wire insulation         166 Shore D           Ingredient freeness wire insulation         168 Shore bardness with insulation           Pameter of single wires         22 AWG           Conductor crosssection (wire)         22 AWG           Conductor crosssection (wire)         22 AWG           Conductor crosssection (wire)         25 °C           Traversing distance (*Tack)         5 m © 25 °C           Traversing distance (*Tack)         5 m © 25 °C           Traversing distance (*Tack)         5 m © 25 °C           Traversi	wire arrangement	•
Material jacket         PUR           Shore hardness jacket         89 Shore A           Freedom from ligoredients (jacket)         6-7 mm           Outer-diameter (jacket)         6-7 mm           Tolerance outer diameter (sheath)         ± 5 %           Material inner jacket         FRNC           Color (inner jacket)         natur           Material wire insulation         PE           Arnount wires         4           Outer diameter friesulation         1,4 mm           Outer diameter friesulation         65 Shore 0           Injuredient freeness wire insulation         22 AWG           Conductor crosssocicion (wire)         7           Diameter of single wires         22 AWG           Conductor crosssocicion (wire)         22 AWG           Conductor crosssocicion (wire)         22 AWG           Traveril speed (C-track)         3,3 ms @ 25 °C           Traveril speed (C-track)         3,3 ms @ 25 °C           Normal voltage AC max         300 V           Current load capacity (standard)         10 N V V E 0298 4 <td>Cable weigth</td> <td></td>	Cable weigth	
Shore hardness jacket   89 Shore A   lead-free, cadmium-free, CFC-free, halogen-free, silicone-free   lead-free, cadmium-free,	Material jacket	
Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, allicone-free           Outer-diameter (jacket)         6,7 mm           Tolerance outer diameter (sheath)         ± 5 %           Material inner jacket         FRNC           Color (inner jacket)         natur           Material wire insulation         PE           Amount wires         4           Outer diameter insulation         ± 5 %           Shore barridness wire insulation         ± 5 %           Ingredient freeness wire insulation         ± 5 %           Conductor crossection (wire)         2 2 AWG           Material wire device of single wires         2 2 AWG           Material wire of single wires         2 2 AWG           Material wire of single wires         5 m 2 5 °C           Travel speed (C-track)         3 m 2 5 °C		89 Shore A
Outer-diameter (jacket)         6,7 mm           Tolerance outer diameter (sheath)         ± 5 %           Material inner jacket)         FRNC           Color (inner jacket)         natur           Material wire insulation         PE           Amount wires         4           Outer diameter insulation         1,4 mm           Outer diameter tolorance core insulation         5 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 vive interest in the properties of the pr	<u> </u>	
Tolerance outer diameter (sheath) ± 5 %  Material inner jacket FRINC  Cotor (inner jacket) natur  Material wire insulation PE  Amount wires 4  Outer diameter insulation 1,4 mm  Outer diameter insulation 25 %  Shore hardness wire insulation 65 Shore 0  Ingredient freeness wire insulation 1  In		<del>-</del>
Material Inner jacket   FRNC   Color (inner jacket)   natur		· · · · · · · · · · · · · · · · · · ·
Color (inner jacket)         natur           Material wire insulation         PE           Amount wires         4           Outer diameter insulation         1.4 mm           Outer diameter tolerance core insulation         5.5 %           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           Traversing distance (C-track)         5 m @ 25 °C           Travel speed (C-track)         3.0 m @ 25 °C           Travel speed (C-track)         3.3 m's @ 25 °C           Nominal voltage AC max.         300 V           Current load capacity (standard)         10 DI VDE 0298-4           Current load capacity (standard)         10 DI VDE 0298-4           Current load capacity (wire, wire)         2 kV @ 60 s           Electrical resistance line constant (wire wire)         50 Ω/m         60 S           Electrical capacity line constant (wire wire)         2 kV @ 60 s         60 S           Electrical prequency withstand voltage (wire - shield)         2 kV @ 60 s         60	. ,	
Material wire insulation         PE           Amount wires         4           Outer diameter insulation         1.4 mm           Outer diameter tolerance core insulation         65 Shore D           Ingredient freeness wire insulation         lead-free, CFC-free, halogen-free           Amount strands (wire)         7           Diameter of single wires         22 AWG           Conductor crosssection (wire)         22 AWG           Conductor wire         Stranded copper wire, bare           Travel speed (C-track)         5 m @ 25 °C           Travel speed (C-track)         3 Mio. @ 25 °C           Current load capacity min. wire         4.8 A           Current load capacity min. wire         4.8 A           Clearciactic impedance         100 Ω ± 15 % @ 100 MHz           Electrical capacity line constant (wire - wire)         2 kV @ 60 s           Electrical capacity line constant (wire - wire)         5000 MF xm		natur
Amount wires         4           Outer diameter insulation         1,4 mm           Outer diameter insulation         ±5 %           Shore hardness wire insulation         66 Shore D           Ingredient freeness wire insulation         lead-free, CFC-free, halogen-free           Amount strands (wire)         7           Diameter of single wires         22 AWG           Conductor crosssection (wire)         22 AWG           Material conductor wire         Stranded copper wire, bare           Travel speed (C-track)         5 m @ 25 °C           Travel speed (C-track)         3,3 m's @ 25 °C           Travel speed (C-track)         3,3 m's @ 25 °C           Nominal voltage AC max.         300 V           Current load capacity standard)         to DIN VDE 0298-4           Current load capacity min. wire         4,8 A           Characteristic impedance         100 Ω±15 % @ 100 MHz           Electrical capacity in constant wire         5 fo/km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Electrical capacity in constant (wire - wire)         2 kV @ 60 s           Electrical capacity in constant (wire - wire)         2 kV @ 60 s           Coperating temperature (static)         -40 °C           Max. operating temperature (static)		PE
Outer diameter tolerance core insulation         ± 5 %           Shore bardness wire insulation         65 Shore D           Ingredient freeness wire insulation         lead-free, CFC-free, halogen-free           Amount strands (wire)         7           Diameter of single wires         22 AWG           Conductor crosssection (wire)         22 AWG           Material conductor wire         Stranded opper wire, bare           Traversing distance (C-track)         5 m @ 25 °C           Travel speed (C-track)         3 Mio. @ 25 °C           Travel speed (C-track)         3,3 m/s @ 25 °C           Nominal voltage AC max.         300 V           Current load capacity (standard)         10 DIN VDE 0298-4           Current load capacity (standard)         10 DIN VDE 0298-4           Current load capacity (wire - wire)         4,8 A           Electrical resistance line constant wire         45 Q W M B B           Electrical capacity line constant (wire - wire)         2 kV @ 60 s           Electrical capacity line constant (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - shied)         2 kV @ 60 s           AC withstand voltage (wire - shied)         2 kV @ 60 s           Lop resistance         5000 MΩ x km           Min. operating temperature (static)         -40	Amount wires	
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           Traver sing distance (C-track)         5 m @ 25 °C           Travel speed (C-track)         3 Mio. @ 25 °C           Travel speed (C-track)         3,3 m/s @ 25 °C           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 098-4           Current load capacity min. wire         4,8 A           Characteristic impedance         100 Ω ± 15 % @ 100 MHz           Electrical resistance line constant wire         500 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           Loop resistance         5000 MΩ × km           Min. operating temperature (static)         40 °C           Max. operating temperature min. (dynamic)         30 °C           Operating temperature min. (dynamic)         30 °C	Outer diameter insulation	1,4 mm
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           Traver sing distance (C-track)         5 m @ 25 °C           Travel speed (C-track)         3 Mio. @ 25 °C           Travel speed (C-track)         3,3 m/s @ 25 °C           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 098-4           Current load capacity min. wire         4,8 A           Characteristic impedance         100 Ω ± 15 % @ 100 MHz           Electrical resistance line constant wire         500 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           Loop resistance         5000 MΩ × km           Min. operating temperature (static)         40 °C           Max. operating temperature min. (dynamic)         30 °C           Operating temperature min. (dynamic)         30 °C	Outer diameter tolerance core insulation	·
Ingredient freeness wire insulation         lead-free, CFC-free, halogen-free           Amount Strands (wire)         7           Diameter of single wires         22 AWG           Conductor crosssection (wire)         22 AWG           Material conductor wire         Stranded copper wire, bare           Traversing distance (C-track)         5 m @ 25 °C           Travel speed (C-track)         3 Mio. @ 25 °C           Travel speed (C-track)         3, m's @ 25 °C           Nominal votage 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 %@ 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 capacity jine constant (wire - wire)         2 kV @ 60 s           AC withstand voltage (wire - shield)         2 kV @ 60 s           Lectrical capacity jine constant (wire - wire)         2 kV @ 60 s           Max. operating temperature (static)         40 °C           Max. operating temperature (static) <td>Shore hardness wire insulation</td> <td></td>	Shore hardness wire insulation	
Amount strands (wire)         7           Diameter of single wires         22 AWG           Conductor crossection (wire)         22 AWG           Material conductor wire         Stranded copper wire, bare           Traversing distance (C-track)         5 m @ 25 °C           Travel speed (C-track)         3 Mio. @ 25 °C           Travel speed (C-track)         3,3 m/s @ 25 °C           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4,8 A           Characteristic impedance         100 Ω± 15 % @ 100 MHz           Electrical resistance line constant wire         55 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Electrical capacity line constant (wire - wire)         50000 pF/km           Power frequency withstand voltage (wire - shield)         2 kV @ 60 s           AC withstand voltage (wire - shield)         2 kV @ 60 s           Loop resistance         5000 MMC x km           Min. operating temperature (static)         40 °C           Max. operating temperature max. (dynamic)         70 °C           Flame resistance         EC 60332-2-2   UL 1581 § 1990   UL 1581 § 1100 FT2           chemical resistance         Good, application-related testing<	Ingredient freeness wire insulation	
Conductor crosssection (wire)         22 AWG           Material conductor wire         Stranded copper wire, bare           Traversing distance (C-track)         5 m @ 25 °C           Travel speed (C-track)         3 Mio. @ 25 °C           Travel speed (C-track)         3 Mio. @ 25 °C           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4,8 A           Characteristic impedance         100 Ω ± 15 % @ 100 MHz           Electrical resistance line constant wire         55 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Electrical capacity line constant (wire - wire)         50000 pF/km           Power frequency withstand voltage (wire - jacket)         2 kV @ 60 s           Loop resistance         5000 MΩ × km           Min. operating temperature (static)         40 °C           Max. operating temperature (fixed)         80 °C           Operating temperature min. (dynamic)         30 °C           Operating temperature min. (dynamic)         70 °C           Flame resistance         IEC 60332-2-2   UL 1581 § 109   UL 1581 § 1100 FT2           chemical resistance         Good, application-related testing           Gasoline resistance         Good,	Amount strands (wire)	
Conductor crosssection (wire)         22 AWG           Material conductor wire         Stranded copper wire, bare           Traversing distance (C-track)         5 m @ 25 °C           Travel speed (C-track)         3 Mio. @ 25 °C           Travel speed (C-track)         3 Mio. @ 25 °C           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4,8 A           Characteristic impedance         100 Ω ± 15 % @ 100 MHz           Electrical resistance line constant wire         55 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Electrical capacity line constant (wire - wire)         50000 pF/km           Power frequency withstand voltage (wire - jacket)         2 kV @ 60 s           Loop resistance         5000 MΩ × km           Min. operating temperature (static)         40 °C           Max. operating temperature (fixed)         80 °C           Operating temperature min. (dynamic)         30 °C           Operating temperature min. (dynamic)         70 °C           Flame resistance         IEC 60332-2-2   UL 1581 § 109   UL 1581 § 1100 FT2           chemical resistance         Good, application-related testing           Gasoline resistance         Good,	. ,	22 AWG
Material conductor wire         Stranded copper wire, bare           Traversing distance (C-track)         5 m @ 25 °C           Travel speed (C-track)         3 Mio. @ 25 °C           Travel speed (C-track)         3,3 m/s @ 25 °C           Owninal 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 - shield)         2 kV @ 60 s           Loop resistance         5000 MΩ × km           Min. operating temperature (static)         -40 °C           Max. operating temperature (fixed)         80 °C           Operating temperature min. (dynamic)         -30 °C           Operating temperature min. (dynamic)         -30 °C           Operating temperature max. (dynamic)         70 °C           Flame resistance         Good, application-related testing           Gasoline resistance         Good, application		22 AWG
Travel speed (C-track)         3 Mio. @ 25 °C           Travel speed (C-track)         3,3 m/s @ 25 °C           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4,8 A           Characteristic impedance         100 Ω ± 15 % @ 100 MHz           Electrical resistance line constant wire         55 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Electrical capacity line constant (wire - wire)         50000 pF/km           Power frequency withstand voltage (wire - shield)         2 kV @ 60 s           AC withstand voltage (wire - shield)         2 kV @ 60 s           Loop resistance         5000 MΩ x km           Min. operating temperature (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           <	Material conductor wire	
Travel speed (C-track)         3 Mio. @ 25 °C           Travel speed (C-track)         3,3 m/s @ 25 °C           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4,8 A           Characteristic impedance         100 Ω ± 15 % @ 100 MHz           Electrical resistance line constant wire         55 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Electrical capacity line constant (wire - wire)         50000 pF/km           Power frequency withstand voltage (wire - shield)         2 kV @ 60 s           AC withstand voltage (wire - shield)         2 kV @ 60 s           Loop resistance         5000 MΩ x km           Min. operating temperature (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           <	Traversing distance (C-track)	5 m @ 25 °C
Travel speed (C-track)         3,3 m/s @ 25 °C           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4,8 A           Characteristic impedance $100 \Omega \pm 15 \% @ 100 \text{ MHz}$ Electrical resistance line constant wire $55 \Omega / \text{km} @ 20 ° \text{C}$ AC withstand voltage (wire - wire) $2 \text{ kV} @ 60 \text{ s}$ Electrical capacity line constant (wire - wire) $50000 \text{ pF/km}$ Power frequency withstand voltage (wire - shield) $2 \text{ kV} @ 60 \text{ s}$ AC withstand voltage (wire - shield) $2 \text{ kV} @ 60 \text{ s}$ Loop resistance $50000 \text{ MΩ} \times \text{km}$ Min. operating temperature (static) $40 ° \text{C}$ Max. operating temperature (ixed) $80 ° \text{C}$ Operating temperature min. (dynamic) $30 ° \text{C}$ Operating temperature max. (dynamic) $70 ° \text{C}$ 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           Bend	* '	
Nominal voltage AC max. 300 V  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4.8 A  Characteristic impedance 100 $\Omega$ ± 15 % @ 100 MHz  Electrical resistance line constant wire 55 $\Omega$ /km @ 20 °C  AC withstand voltage (wire - wire) 2 kV @ 60 s  Electrical capacity line constant (wire - wire) 50000 pF/km  Power frequency withstand voltage (wire - in acket) 2 kV @ 60 s  AC withstand voltage (wire - shield) 2 kV @ 60 s  Loop 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 1EC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2  chemical resistance Good, application-related testing  Gasoline resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 5 × Outer diameter  Bending radius (dynamic) 12 × Outer diameter  No. of torsion cycles 1 Mio. 25 °C		<del>-</del>
Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4,8 A  Characteristic impedance $100 \Omega \pm 15 \% @ 100 \text{ MHz}$ Electrical resistance line constant wire $55 \Omega \text{/km} @ 20 \degree \text{C}$ 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 - $\frac{1}{2} \text{ kV} @ 60 \text{ s}$ AC withstand voltage (wire - shield) $2 \text{ kV} @ 60 \text{ s}$ Loop resistance $5000 \text{ M}\Omega \times \text{km}$ Min. operating temperature (static) $40 \degree \text{C}$ Max. operating temperature (fixed) $80 \degree \text{C}$ Operating temperature min. (dynamic) $30 \degree \text{C}$ Operating temperature max. (dynamic) $70 \degree \text{C}$ Flame resistance $[\text{EC} 60332-2-2 \mid \text{UL} 1581 \S 1090 \mid \text{UL} 1581 \S 1100 \text{ FT2}}$ chemical resistance $Good$ , application-related testing  Gasoline resistance $Good$ , application-related testing  Oil resistance $DIN \text{ EN} 60811-404 \mid Good$ , application-related testing}  Bending radius (fixed) $5 \times \text{Outer diameter}$ Bending radius (dynamic) $12 \times \text{Outer diameter}$ No. of torsion cycles $1 \text{ Mio}. 25 \degree \text{C}$		
Current load capacity min. wire 4,8 A  Characteristic impedance $100 \Omega \pm 15 \% \oplus 100 \text{ MHz}$ Electrical resistance line constant wire $55 \Omega \text{/km} \oplus 20 \text{ °C}$ AC withstand voltage (wire - wire) $2 \text{ kV} \oplus 60 \text{ s}$ Electrical capacity line constant (wire - wire) $50000 \text{ pF/km}$ Power frequency withstand voltage (wire - alacket) $2 \text{ kV} \oplus 60 \text{ s}$ Electrical capacity line constant (wire - wire) $2 \text{ kV} \oplus 60 \text{ s}$ Electrical capacity line constant (wire - wire) $2 \text{ kV} \oplus 60 \text{ s}$ AC withstand voltage (wire - shield) $2 \text{ kV} \oplus 60 \text{ s}$ Loop resistance $5000 \text{ M}\Omega \times \text{km}$ Min. operating temperature (static) $40 \text{ °C}$ Max. operating temperature (fixed) $40 \text{ °C}$ Max. operating temperature min. (dynamic) $40 \text{ °C}$ Operating temperature max. (dynamic) $40 \text{ °C}$ Coperating temperature max. (dynamic) $40 \text{ °C}$ Flame resistance $4000000000000000000000000000000000000$		
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) $50000  \text{pF} / \text{km}$ Power frequency withstand voltage (wire - jacket) $2  \text{kV} @ 60  \text{s}$ AC withstand voltage (wire - shield) $2  \text{kV} @ 60  \text{s}$ Loop resistance $5000  \text{M} \Omega \times \text{km}$ Min. operating temperature (static) $40  ^{\circ} \text{C}$ 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 $1  \text{EC}  60332 \cdot 2 \cdot 2     \text{UL}  1581  \S  1090      \text{UL}  1581  \S  1100  \text{FT2}$ chemical resistance $3  \text{Good}$ , application-related testing}  Gasoline resistance $3  \text{Good}$ , application-related testing}  Oil resistance $3  \text{DIN}  \text{EN}  60811 \cdot 404     \text{Good}$ , application-related testing}  Bending radius (fixed) $5  \times \text{Outer diameter}$ Bending radius (dynamic) $12  \times \text{Outer diameter}$ No. of torsion cycles $1  \text{Mio} \cdot 25  ^{\circ} \text{C}$		
Electrical resistance line constant wire 55 Ω/km @ 20 °C  AC withstand voltage (wire - wire) 2 kV @ 60 s  Electrical capacity line constant (wire - wire) 50000 pF/km  Power frequency withstand voltage (wire - jacket) 2 kV @ 60 s  AC withstand voltage (wire - shield) 2 kV @ 60 s  Loop resistance 5000 MΩ × km  Min. operating temperature (static) -40 °C  Max. operating temperature (fixed) 80 °C  Operating temperature min. (dynamic) -30 °C  Operating temperature max. (dynamic) 70 °C  Flame resistance 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 torsion cycles 1 Mio. 25 °C		,
AC withstand voltage (wire - wire) $2 \text{ kV } \otimes 60 \text{ s}$ Electrical capacity line constant (wire - wire) $50000 \text{ pF/km}$ Power frequency withstand voltage (wire - jacket) $2 \text{ kV } \otimes 60 \text{ s}$ AC withstand voltage (wire - shield) $2 \text{ kV } \otimes 60 \text{ s}$ Loop resistance $5000 \text{ M}\Omega \times \text{km}$ Min. operating temperature (static) $-40 \text{ °C}$ Max. operating temperature (fixed) $80 \text{ °C}$ Operating temperature min. (dynamic) $-30 \text{ °C}$ Operating temperature max. (dynamic) $70 \text{ °C}$ Flame resistance $1\text{EC } 60332 \cdot 2 \cdot 2 \cdot 1 \text{ UL } 1581 \text{ § } 1090 \mid \text{ UL } 1581 \text{ § } 1100 \text{ FT2}$ chemical resistance $3\text{ Good}$ , application-related testing $3\text{ FT}$ Gasoline resistance $3\text{ DIN } \text{ EN } 60811 \cdot 404 \mid \text{ Good}$ , application-related testing $3\text{ EV}$ Bending radius (fixed) $3\text{ x} \times \text{ Outer diameter}$ Bending radius (dynamic) $12\text{ x} \times \text{ Outer diameter}$ No. of torsion cycles $1\text{ Mio. } 25 \text{ °C}$		<del>-</del>
Electrical capacity line constant (wire - wire)       50000 pF/km         Power frequency withstand voltage (wire - jacket)       2 kV @ 60 s         AC withstand voltage (wire - shield)       2 kV @ 60 s         Loop resistance       5000 MΩ × km         Min. operating temperature (static)       -40 °C         Max. operating temperature (fixed)       80 °C         Operating temperature min. (dynamic)       -30 °C         Operating temperature max. (dynamic)       70 °C         Flame resistance       IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2         chemical resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing         Oil resistance       DIN EN 60811-404   Good, application-related testing         Bending radius (fixed)       5 x Outer diameter         Bending radius (dynamic)       12 x Outer diameter         No. of torsion cycles       1 Mio. 25 °C		<del>-</del>
Power frequency withstand voltage (wire - spied) $2 \text{ kV} @ 60 \text{ s}$ AC withstand voltage (wire - shield) $2 \text{ kV} @ 60 \text{ s}$ Loop resistance $5000 \text{ MΩ} \times \text{km}$ Min. operating temperature (static) $-40 \text{ °C}$ Max. operating temperature (fixed) $80 \text{ °C}$ Operating temperature min. (dynamic) $-30 \text{ °C}$ Operating temperature max. (dynamic) $70 \text{ °C}$ Flame resistance       IEC $60332-2-2 \text{   UL 1581 § 1090   UL 1581 § 1100 FT2}$ chemical resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing         Oil resistance       DIN EN $60811-404 \text{   Good, application-related testing}$ Bending radius (fixed) $5 \times \text{Outer diameter}$ Bending radius (dynamic) $12 \times \text{Outer diameter}$ No. of torsion cycles $1 \text{ Mio. 25 °C}$		
AC withstand voltage (wire - shield) $2 \text{ kV} \otimes 60 \text{ s}$ Loop resistance $5000 \text{ M}\Omega \times \text{km}$ Min. operating temperature (static) $-40 \text{ °C}$ Max. operating temperature (fixed) $80 \text{ °C}$ Operating temperature min. (dynamic) $-30 \text{ °C}$ Operating temperature max. (dynamic) $70 \text{ °C}$ Flame resistance $ EC  60332 \cdot 2 \cdot 2  UL  1581 \text{ § } 1090  UL  1581 \text{ § } 1100 \text{ FT2}$ chemical resistance $ EC  60332 \cdot 2 \cdot 2  UL  1581 \text{ § } 1090  UL  1581 \text{ § } 1000 \text{ FT2}$ chemical resistance $ EC  60332 \cdot 2 \cdot 2  UL  1581 \text{ § } 1090  UL  1581 \text{ § } 1000 \text{ FT2}$ chemical resistance $ EC  60332 \cdot 2 \cdot 2  UL  1581 \text{ § } 1000 \text{ FT2}$ chemical resistance $ EC  60332 \cdot 2 \cdot 2  UL  1581 \text{ § } 1000 \text{ FT2}$ chemical resistance $ EC  60332 \cdot 2 \cdot 2  UL  1581 \text{ § } 1000 \text{ FT2}$ chemical resistance $ EC  60332 \cdot 2 \cdot 2  UL  1581 \text{ § } 1000 \text{ FT2}$ chemical resistance $ EC  60332 \cdot 2 \cdot 2  UL  1581 \text{ § } 1000 \text{ FT2}$ chemical resistance $ EC  60332 \cdot 2 \cdot 2  UL  1581 \text{ § } 1000 \text{ FT2}$ chemical resistance $ EC  60332 \cdot 2 \cdot 2  UL  1581 \text{ § } 1000 \text{ FT2}$ chemical resistance $ EC  60332 \cdot 2 \cdot 2  UL  1581 \text{ § } 1000 \text{ FT2}$ chemical resistance $ EC  60332 \cdot 2 \cdot 2  UL  1581 \text{ § } 1000 \text{ FT2}$ chemical resistance $ EC  60332 \cdot 2 \cdot 2  UL  1581 \text{ § } 1000 \text{ FT2}$ chemical resistance $ EC  60332 \cdot 2 \cdot 2  UL  1581 \text{ § } 1000 \text{ FT2}$ chemical resistance $ EC  60332 \cdot 2 \cdot 2  UL  1581 \text{ § } 1000 \text{ FT2}$ chemical resistance $ EC  60332 \cdot 2 \cdot 2  UL  1581 \text{ § } 1000 \text{ FT2}$ chemical resistance $ EC  60332 \cdot 2 \cdot 2  UL  1581 \text{ § } 1000 \text{ FT2}$ chemical resistance $ EC  60332 \cdot 2 \cdot 2  UL  1581 \text{ § } 1000 \text{ FT2}$ chemical resistance $ EC  60332 \cdot 2 \cdot 2  UL  1581 \text{ § } 1000 \text{ FT2}$ chemical resistance $ EC  60332 \cdot 2 \cdot 2  UL  1581 \text{ § } 1000 \text{ FT2}$ chemical resistance $ EC  60332 \cdot 2 \cdot 2  UL  1581 \text{ § } 1000 \text{ FT2}$ chemical resistance $ EC  60332 \cdot 2 \cdot 2  UL  1581 \text{ § } 1000 \text{ FT2}$ chemical resistance $ EC  60332 \cdot 2 \cdot 2  UL  1581 \text{ § } 1000 \text{ FT2}$ chemical resistance $ EC  60$	Power frequency withstand voltage (wire -	
Loop 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 torsion cycles1 Mio. 25 °C	<u> </u>	2 kV @ 60 s
Min. operating temperature (static)  Max. operating temperature (fixed)  Operating temperature min. (dynamic)  Operating temperature max. (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 torsion cycles  1 Mio. 25 °C	Loop resistance	5000 MΩ × km
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  Good, application-related testing  Oil resistance  DIN EN 60811-404   Good, application-related testing  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic)  12 x Outer diameter  No. of torsion cycles  1 Mio. 25 °C		
Operating temperature min. (dynamic) Operating temperature max. (dynamic) Operating temperature max. (dynamic)  70 °C  Flame resistance IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2  chemical resistance Good, application-related testing  Gasoline resistance Oil resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic) 12 x Outer diameter  No. of torsion cycles  1 Mio. 25 °C	,	
Operating temperature max. (dynamic)  70 °C  Flame resistance  IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2  chemical resistance  Good, application-related testing  Gasoline resistance  Oil resistance  DIN EN 60811-404   Good, application-related testing  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic)  12 x Outer diameter  No. of torsion cycles  1 Mio. 25 °C	Operating temperature min. (dynamic)	
Flame resistance IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2  chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Oil resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 12 x Outer diameter  No. of torsion cycles 1 Mio. 25 °C	Operating temperature max. (dynamic)	
chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404   Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 12 x Outer diameter No. of torsion cycles 1 Mio. 25 °C	Flame resistance	IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2
Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404   Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 12 x Outer diameter No. of torsion cycles 1 Mio. 25 °C		
Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 12 x Outer diameter  No. of torsion cycles 1 Mio. 25 °C	Gasoline resistance	Good, application-related testing
Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 12 x Outer diameter  No. of torsion cycles 1 Mio. 25 °C	Oil resistance	DIN EN 60811-404   Good, application-related testing
No. of torsion cycles 1 Mio. 25 °C	Bending radius (fixed)	
No. of torsion cycles 1 Mio. 25 °C	Bending radius (dynamic)	12 x Outer diameter
Torsion stress ± 180 °/m	No. of torsion cycles	1 Mio. 25 °C
	Torsion stress	± 180 °/m