

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

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

Product fulfills requirements according to UN/ECE R118 **Ethernet CAT5** Male straight - male straight RJ45 - RJ45, 4-pole

shielded

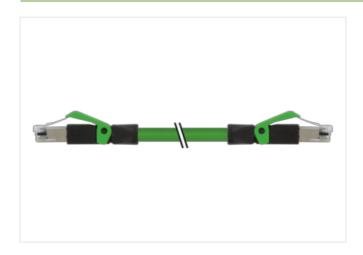
Further cable lengths on request.

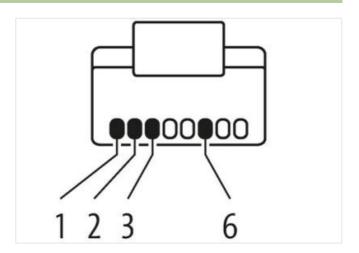
Plastic housings with good resistance against chemicals and oils.

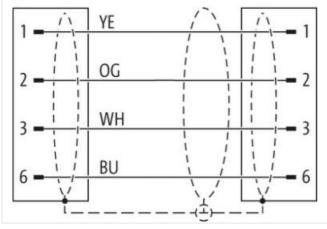
The resistance to aggressive media should be individually tested for your application. Further details on request.

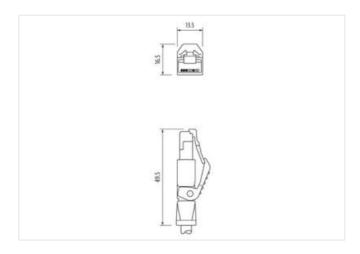
## **Link to Product**

## Illustration









Product may differ from Image









Cable length

1 m

Side 1



stay connected

Mounting method	inserted
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	4048879433754
Packaging unit	1
Electrical data   Supply	
Operating voltage DC max.	60 V
Current operating per contact max.	1,5 A
Industrial communication	
	CATE Class D (ISO/IFC 11901/2002) (FN 50172.1)
Transfer parameters  Data transmission rate max.	CAT5e, Class D (ISO/IEC 11801:2002), (EN 50173-1)  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)	I
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	
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   Cobla	ondungored by excessive bending forces.
Installation   Cable	
Cable identification	796
Jacket Color	green



stay connected

Type of Certificate		
Stranding 4 wires around Core filler twisted  Cable shielding (type) copper braid, timed  Cable shielding (type) copper braid, timed  Cable shielding (coverage) 65 %  Banding Fleece, Foll  Filler yes  Wire arrangment white, yellow, blue, orange  Travel signed (C-track) 5 m @ 25 °C  Travel speed (C-track) 3 Mio. @ 25 °C  Cable weight 63,3 g hm  Travel speed (C-track) 3,3 m @ 25 °C  Material packet PUB  Shore hardness isolated PUB  Shore hardness isolated 88 Shore A  Freedom from ingredients (jacket) 6,7 mm  Tolerance outset diameter (sheath) 5 % Material inner jacket FRNA  Cated wire insulation 6,7 mm  Tolerance outset diameter (sheath) 6,7 mm  Material inner jacket FRNA  Cated diameter insulation PE  Color (inner jacket) 1,4 mm  Anount wire insulation PE  Ingredient tensess wire insulation 1,4 mm  Coter diameter tenses wire insulation 65 Shore D  Ingredient tensess wire insulation 65 Shore D  Ingredient tensess wire insulation 1 (55	Type of Certificate	cURus
Cable shielding (coverage)         65 %           Bandring         Fleece, Foll           Filter         yes           wire arrangement         white, yellow, blue, orange           Traversing distance (C-track)         5 m @ 25 °C           Traversing distance (C-track)         3 Mile @ 25 °C           Cable weight         69.3 g m           Traversing distance (C-track)         3.3 Mile @ 25 °C           Cable weight         69.3 g m           Traversing distance (C-track)         3.3 mile @ 25 °C           Markersial pincet         PUB           Store barriess pischel         89 Store A           Freedom from ingredients (jacker)         60.4 mile           Coulver-diameter (jacker)         6.7 mm           Tolerance outer diameter (jacker)         6.7 mm           Tolerance outer diameter (jacker)         1.5 %           Material wire insulation         PE           Material wire insulation         PE           Outer diameter insulation         1.4 mm           Under diameter insulation         1.5 %           Ingredient finenses wire insulation         1.5 %           Ingredient finenses wire insulation         1.5 %           Ingredient finenses wire insulation         1.5 %           Ingredi	Amount stranding	1
Cabbe stribition (coverage)         8.5 %           Banding         Fleece, Foil           Filter         yes           wire arrangement         white, yellow, blue, crange           Traversing distance (C-track)         3 Mio. @ 25 °C           Travel speed (C-track)         3 Mio. @ 25 °C           Cable weight         53.3 g/m           Travel speed (C-track)         3.3 m/s @ 25 °C           Material jacket         PUH           Shore hardness jacket         89 Shore A           Freadom from ingradients [jacket)         9.7 mm           Culur-disameter [jacket)         9.7 mm           Tolerance outer disameter (wheath)         ± 5 %           Material inner jacket         FRNC           Color (inner jacket)         natur           Material wire insulation         PE           Manual wire insulation         1.4 mm           Outer disameter insulation         1.4 mm           Outer disameter insulation         5 %           Shore transvess were insulation         65 Shore D           Ingredient freeness wire insulation         65 Shore D           Ingredient freeness wire insulation         65 Shore D           Ingredient freeness wire insulation         65 % me           Ingredient freeness wir	Stranding	4 wires around Core filler twisted
Bandring	Cable shielding (type)	copper braid, tinned
Filter	Cable shielding (coverage)	85 %
wite arrangement white, yellow, blue, crange Traversing distance (C-track) 5 m @ 25 °C Cable weight 69,3 g/m Traver Speed (C-track) 3 M Mo. @ 25 °C Material jacket PUR Shore hardness jacket PUR Shore hardness jacket PUR Shore hardness jacket 198 Shore A Travel Speed (C-track) 3 m / @ 25 °C Material jacket 9 Shore A Travel Speed (C-track) 4 Shore hardness jacket PUR Shore hardness jacket 198 Shore A Travel Speed (C-track) 4 Shore hardness jacket 198 Shore A Travel Speed (C-track) 4 Shore hardness jacket 198 Shore A Travel Speed (T-travel) 104 Travel Speed (T-travel) 104 Travel Speed (T-travel) 104 Travel Speed (T-travel) 104 Travel Shore (T-travel) 105 Travel Shore (	Banding	Fleece, Foil
Traversing distance (C-track)         5 m @ 25 °C           Travel spend (C-track)         3 Mio. @ 25 °C           Cable weigh         693 gm           Travel spend (C-track)         3.3 m/s @ 25 °C           Material jacket         PUR           Shore hardress jackot         89 Shore A           Freedom from impredients (acket)         6.7 mm           Outer disaneter (glacket)         6.7 mm           Tolerance outer disaneter (sheath)         ± 5 %           Material inner jackot         FRNC           Color (inner jacket)         matur           Material wire insulation         PE           Material wire insulation         1.4 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         ± 5 %           Amount strands (wire)         6 5 Shore D           Ingredient freeness wire insulation         ± 5 %           March and strands (wire)         7 7           Diameter of single wires         22 AWG           Conductor crosssection (wire)         22 AWG           Conductor crosssection (wire)         23 Amander of single wires           Loop resistance         5000 MΩ × km           Nominal vollage AC max.         500 N M × km           Cu	Filler	yes
Travel speed (C-track)	wire arrangement	white, yellow, blue, orange
Cable weigth         69.3 g/m           Travel speed (C-track)         3,3 m/s @ 25 ° C           Material jacket         PUR           Shore hardness jacket         89 Shore A           Freedom from ingredents (jacket)         6,7 m/m           Tolerance outer diameter (jacket)         6,7 m/m           Tolerance outer diameter (jacket)         7,7 m/m           Tolerance outer diameter (jacket)         7,7 m/m           All Color (inner jacket)         natur           Material wire insulation         PE           Amount wires         4           Cuter diameter insulation         1,4 m/m           Outer diameter rolerance core insulation         5 %           Shore branches wire insulation         65 Shore D           Ingredient freeness wire insulation         65 Shore D           Ingredient freeness wire insulation         65 Shore D           Ingredient freeness wire insulation         80 Shore A           Material conduction (wire)         7           Diameter of single wires         22 AWG           Conductor crosssection (wire)         22 AWG           Conductor crosssection (wire)         22 AWG           Current load capacity (standard)         10 DN VDE 0284 4           Current load capacity min. wire         4,8	Traversing distance (C-track)	5 m @ 25 °C
Tavel speed (C track)   3,3 m's @ 25 °C   Material jacket   PUR   Shore hardness jacket   89 Shore A   Freedom from ingredients (jacket)   lead-free, cadmium-free, CFC-free, halogen-free, silicone-free   Outer-diameter (jacket)   ± 5 %   Material inner jacket   FRNC   Ooler (none jacket)   natur   Material inner jacket   FRNC   Outer diameter insulation   PE   Amount wires   4   Amount wires   4   Amount strands (wire)   7   Diameter or of single wires   22 AWG   Conductor or or sees section (wire)   22 AWG   Material conductor wire   Strandad opper wire, bare   Loop resistance   5000 MΩ × km   Nominal vortage AC max   300 V   Current load capacity frain wire   4,8 A   Characteristic impedance   100 Ω ± 15 % @ 100 NUE   Current load capacity frain wire   4,8 A   Characteristic impedance   100 Ω ± 15 % @ 100 NUE   Electrical capacity min. wire   4,8 A   Characteristic impedance   100 Ω ± 15 % @ 100 NUE   Electrical capacity frain wire   25 Ωkm @ 20 °C   AC withstand voltage (wire - shield)   2kV @ 60 s   Min. operating temperature (state)   40 °C   Max. operating temperature (state)   50 °C   Electrical resistance   100 °C   15 °C   Max. operating temperature (state)   40 °C   Max. operating temperature (state)   50 °C   Flame resistance   100 °C   100 °C   100 °C   Flame resistance   100 °C   100 °C   100 °C   Flame resistance   100 °C   100 °C	Travel speed (C-track)	3 Mio. @ 25 °C
Material jacket         PUR           Shore hardness jacket         89 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-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         1.4 mm           Outer diameter insulation         65 Shore D           Ingredient freeness wire insulation         65 Shore D           Ingredient freeness wire insulation         lead-free, CFC-free, halogen-free           Amount strands (wire)         7           Diameter of single wires         22 AWG           Conductor crossection (wire)         32 x AWG           Onductor crossection (wire)         32 x AWG           Loop resistance         5000 MΩ × km           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298 4           Current load capacity (standard)         to DIN VDE 0298 4           Characteristic impedance         100 Ω ± 15 % 010 MHz           Electrical c	Cable weigth	69,3 g/m
Shore hardness jacket         89 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-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 hardness wire insulation         65 Shore D           Ingredient freeness wire insulation         65 Shore D           Ingredient freeness wire insulation         65 Shore D           Amount strands (wire)         7           Diameter of single wires         22 AWG           Conductor crosssection (wire)         22 AWG           Material conductor wire         Stranded copper wire, bare           Loop resistance         5000 MΩ x km           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)         2.8 X @ 100 MHz           Electrical resistance line constant (wire - wire)         2.8 X @ 100 MHz	Travel speed (C-track)	3,3 m/s @ 25 °C
Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-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 1,4 mm Outer diameter insulation 5 × 5 % Shore hardness wire insulation 65 Shore D Ingredient freeness wire insulation 164 % Shore hardness wire insulation 165 Shore D Ingredient freeness wire insulation 164 % Shore hardness wire insulation 165 Shore D Ingredient freeness wire insulation 164 % Shore hardness wire insulation 165 Shore D Ingredient freeness wire insulation 164 % Shore hardness wire insulation 165 Shore D Ingredient freeness wire insulation 165 Shore D IN NOTE (Shore D IN NOTE	Material jacket	PUR
Outer-diameter (jacket)	Shore hardness jacket	89 Shore A
Tolerance outer diameter (sheath)	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Tolerance outer diameter (sheath)	Outer-diameter (jacket)	
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         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           Loop resistance         5000 MC × km           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         2 kV @ 60 s           Electrical apacity line constant (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           Min. operating temperature (static)         40 °C           AC withstand voltage (wire - shield)         2 kV @ 60		± 5 %
Color (inner jacket)         natur           Material wire insulation         PE           Amount wires         4           Outer diameter insulation         ± 5 %           Shore hardness wire insulation         65 Shore D           Ingredient Treeness 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           Loop resistance         5000 MΩ × km           Nominal voltage AC max.         300 V           Current load capacity (standard)         10 INI VDE 0298-4           Current load capacity (standard)         10 INI VDE 0298-4           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 line constant (wire - wire)         50000 pF/km           Power frequency withstand voltage (wire - shield)         2 kV @ 60 s           Min. operating temperature (static)         40 °C           Max. operating temperature (wind) <td></td> <td>FRNC</td>		FRNC
Material wire insulation         PE           Amount wires         4           Outer diameter insulation         1,4 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         65 Shore D           Ingredient freeness wire insulation         lead-free, CFC-free, halogen-free           Amount strands (wire)         7           Diameter of single wires         22 AWG           Conductor crosssection (wire)         22 AWG           Conductor wire         Stranded copper wire, bare           Loop resistance         5000 MΩ x km           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 Ωkm @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Electrical capacity line constant (wire - wire)         2 kV @ 60 s           Electrical capacity withstand voltage (wire - sield)         2 kV @ 60 s           AC withstand voltage (wire - sield)         2 kV @ 60 s           Max. operating temperature max. (dynamic)         70 °C           Operating temperatu		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           Loop resistance         5000 MΩ × km           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity 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 line constant (wire - wire)         2 kV @ 60 s           Electrical capacity will work voltage (wire - shield)         2 kV @ 60 s           Max. operating temperature (fixed)         80 °C           Max. operating temperature (fixed)         80 °C           Operating temperature min. (dynamic)         -30 °C           Operating temperature min. (dynamic)         -30 °C		PE
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           Loop resistance         5000 MΩ × km           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 Ωkm @ 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           Max. operating temperature (fixed)         8 °C           Max. operating temperature (fixed)         80 °C           Operating temperature min. (dynamic)         -30 °C           Operating temperature min. (dynamic)         70 °C <tr< td=""><td>Amount wires</td><td>4</td></tr<>	Amount wires	4
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           Loop resistance         5000 MΩ × km           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 capacity line constant (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2 kV @ 60 s           AC withstand voltage (wire - shield)         2 kV @ 60 s           Min. operating temperature (static)         -40 °C           Max. operating temperature (static)         -30 °C           Operating temperature max. (dynamic)		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           Loop resistance         5000 MΩ x km           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 Q± 15 % Ø 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           Min. operating temperature (static)         -40 °C           Max. operating temperature (fixed)         80 °C           Operating temperature min. (dynamic)         70 °C           Flame resistance         IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2           chemical resistance         Go	-	·
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 Loop resistance 5000 MΩ × km Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) 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) Electrical capacity line constant (wire - wire) packet) AC withstand voltage (wire - shield) 2 kV @ 60 s Electrical capacity line preparature (static) -40 °C Max. operating temperature (static) -40 °C Operating temperature fixed) 80 °C Operating temperature min. (dynamic) -30 °C Operating temperature min. (dynamic) -70 °C Flame resistance Good, application-related testing Gasoline resistance DIN EN 60811-404   Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (fixed) 5 x Outer diameter Bending radius (fixed) 12 x Outer diameter  No. of torsion cycles 1 Mio. of torsion cycles  1 Mio. 25 °C		
Amount strands (wire) Diameter of single wires 22 AWG Conductor crosssection (wire) 22 AWG Material conductor wire Stranded copper wire, bare Loop resistance 5000 MΩ × km 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) Flower frequency withstand voltage (wire - shield) 2 kV @ 60 s  AC withstand voltage (wire - shield) 2 kV @ 60 s  Min. operating temperature (static) 40 °C Max. operating temperature (static) 40 °C Operating temperature min. (dynamic) 70 °C Flame resistance Elec 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 (fixed) 1 Mio. 25 °C		
Diameter of single wires 22 AWG Conductor crosssection (wire) 22 AWG Material conductor wire Stranded copper wire, bare Loop resistance 5000 M $\Omega$ × km 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 $\Omega$ ± 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 - jacket) 2 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) 70 °C Flame resistance IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2 Chemical resistance Good, application-related testing Gasoline resistance DIN EN 60811-404   Good, application-related testing Bending radius (fixed) 5 × Outer diameter No. of torsion cycles 1 Mio. 25 °C		·
Conductor crosssection (wire)       22 AWG         Material conductor wire       Stranded copper wire, bare         Loop resistance $5000 \text{ M}\Omega \times \text{km}$ Nominal voltage AC max. $300 \text{ V}$ Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity min. wire $4.8 \text{ A}$ Characteristic impedance $100 \Omega \pm 15 \% (0.00 \text{ MHz})$ Electrical resistance line constant wire $55 \Omega / \text{km} (0.00 \text{ MHz})$ AC withstand voltage (wire - wire) $2 \text{ kV} (0.00 \text{ s})$ Electrical capacity line constant (wire - wire) $50000 \text{ pF/km}$ Power frequency withstand voltage (wire - gacket) $2 \text{ kV} (0.00 \text{ s})$ AC withstand voltage (wire - shield) $2 \text{ kV} (0.00 \text{ s})$ 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 60332-2-2-1 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) $5 \times  Out$		22 AWG
Material conductor wire Stranded copper wire, bare  Loop resistance $5000 \text{ M}\Omega \times \text{km}$ Nominal voltage AC max. $300 \text{ V}$ Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire $4.8 \text{ A}$ 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 - jacket) $2 \text{ kV} @ 60 \text{ s}$ AC withstand voltage (wire - shield) $2 \text{ kV} @ 60 \text{ s}$ 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 $1 \text{ EC} 60332-2-2 \text{   UL} 1581 \$ 1990 \text{   UL} 1581 \$ 1100 \text{ FT2}}$ chemical resistance $3 \text{ Good, application-related testing}$ Oil resistance $3 \text{ DIN EN } 60811-404 \text{   Good, application-related testing}$ Bending radius (fixed) $5 \times \text{ Outer diameter}$ Bending radius (dynamic) $12 \times \text{ Outer diameter}$ Bending radius (dynamic) $1 \text{ Min. 25 °C}$	·	22 AWG
Loop resistance $5000  \text{M}  \Omega \times \text{km}$ Nominal voltage AC max. $300  \text{V}$ Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity min. wire $4.8  \text{A}$ Characteristic impedance $100  \Omega \pm 15  \%  0  100  \text{MHz}$ Electrical resistance line constant wire $55  \Omega / \text{km}  0  20  ^{\circ} \text{C}$ AC withstand voltage (wire - wire) $2  \text{kV}  0  60  \text{s}$ Electrical capacity line constant (wire - wire) $50000  \text{pF/km}$ Power frequency withstand voltage (wire - wire) $2  \text{kV}  0  60  \text{s}$ AC withstand voltage (wire - shield) $2  \text{kV}  0  60  \text{s}$ Min. operating temperature (static) $-40  ^{\circ} \text{C}$ Max. operating temperature (fixed) $80  ^{\circ} \text{C}$ Operating temperature min. (dynamic) $-30  ^{\circ} \text{C}$ Operating temperature max. (dynamic) $70  ^{\circ} \text{C}$ Flame resistance       IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2         chemical resistance       Good, application-related testing         Gasoline resistance       DIN EN 60811-404   Good, application-related testing         Oil resistance       DIN EN 60811-404   Good, application-related testing         Bending radius (fixed) $5 \times \text{Outer diameter}$ <td></td> <td></td>		
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 $55  \Omega / \text{km} @ 20  ^{\circ} \text{C}$ AC withstand voltage (wire - wire) $2  \text{kV} @ 60  \text{s}$ Electrical capacity line constant (wire - wire) $50000  \text{pF/km}$ Power frequency withstand voltage (wire - jacket) $2  \text{kV} @ 60  \text{s}$ AC withstand voltage (wire - shield) $2  \text{kV} @ 60  \text{s}$ Min. operating temperature (static) $40  ^{\circ} \text{C}$ Max. operating temperature (fixed) $80  ^{\circ} \text{C}$ Operating temperature min. (dynamic) $70  ^{\circ} \text{C}$ 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) $5  \text{x}  \text{Outer diameter}$ Bending radius (dynamic) $12  \text{x}  \text{Outer diameter}$ No. of torsion cycles $1  \text{Mio.}  25  ^{\circ} \text{C}$		
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) $2 \text{ kV} @ 60 \text{ s}$ 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   UL 1581 § 1090   UL 1581 § 1100 FT2  chemical resistance Good, application-related testing  Gasoline resistance DIN EN 60811-404   Good, application-related testing  Oil resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) $5 \times \text{Outer diameter}$ Bending radius (dynamic) $12 \times \text{Outer diameter}$ No. of torsion cycles $1 \text{ Mio. 25 °C}$	<u> </u>	
Current load capacity min. wire $4.8 \text{ A}$ 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 - jacket) $2 \text{ kV} @ 60 \text{ s}$ AC withstand voltage (wire - shield) $2 \text{ kV} @ 60 \text{ s}$ 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 $1 \text{ EC} 60332 \cdot 2 \cdot 2 \text{   UL } 1581 \$ 1090 \text{   UL } 1581 \$ 1100 \text{ FT2}$ chemical resistance $9 \text{ Good}$ , application-related testing}  Gasoline resistance $9 \text{ DIN EN } 60811 \cdot 404 \text{   Good}$ , application-related testing}  Bending radius (fixed) $5 \times \text{Outer diameter}$ Bending radius (dynamic) $12 \times \text{Outer diameter}$ No. of torsion cycles $1 \text{ Mio. } 25 \text{ °C}$		
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         AC withstand voltage (wire - shield)       2 kV @ 60 s         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		
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  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  Oil resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 5 x Outer diameter  No. of torsion cycles 1 Mio. 25 °C		· · · · · · · · · · · · · · · · · · ·
AC withstand voltage (wire - wire)  Electrical capacity line constant (wire - wire)  Fower frequency withstand voltage (wire - jacket)  AC withstand voltage (wire - shield)  AC withstand voltage (wire - wire)  AC withstand voltage (wire withstand voltage	<u> </u>	
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) -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 torsion cycles 1 Mio. 25 °C		
Power frequency withstand voltage (wire - jacket)  AC withstand voltage (wire - shield)  2 kV @ 60 s  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 (dynamic)  12 × Outer diameter  No. of torsion cycles  1 Mio. 25 °C		_
AC withstand voltage (wire - shield)  AC withstand voltage (wire and voltage (withstand)  AC withstand	Power frequency withstand voltage (wire -	
Min. operating temperature (static)  Max. operating temperature (fixed)  Operating temperature min. (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)  Din En 60811-404   Good, application-related testing  Bending radius (dynamic)  12 x Outer diameter  No. of torsion cycles  1 Mio. 25 °C	<u> </u>	2 kV @ 60 s
Max. operating temperature (fixed) 80 °C  Operating temperature min. (dynamic) -30 °C  Operating temperature max. (dynamic) 70 °C  Flame resistance IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2  chemical resistance Good, application-related testing  Gasoline resistance 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) 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)  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 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  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 torsion cycles 1 Mio. 25 °C		
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 torsion cycles 1 Mio. 25 °C		
Gasoline resistance  Good, application-related testing  Oil resistance  DIN EN 60811-404   Good, application-related testing  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic)  12 x Outer diameter  No. of 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	-	
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
Bending radius (dynamic) 12 x Outer diameter  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
		1 Mio. 25 °C
		± 180 °/m