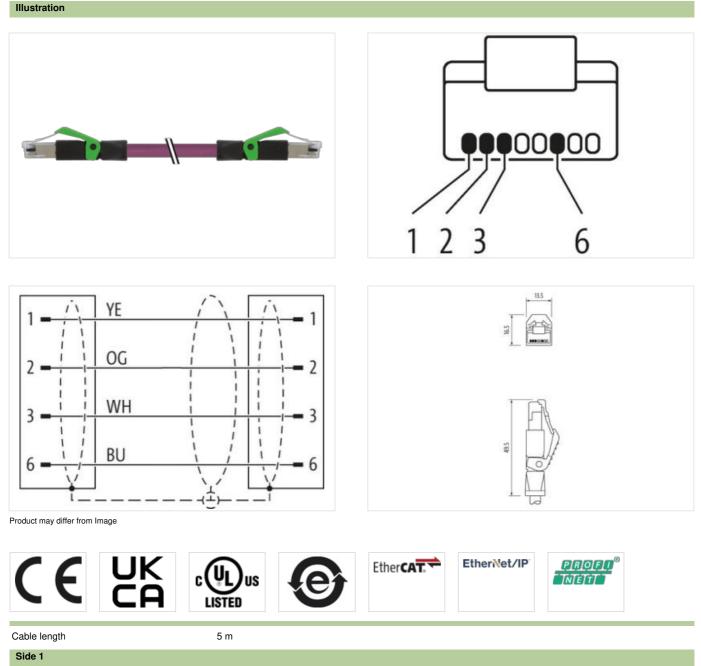


RJ45 male 0° / RJ45 male 0° shielded

PUR 1x4xAWG22 shielded vt 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



Mounting method

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: 2024-06-21

inserted

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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	4048879614498
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 fu	nctionality
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
Mechanical data Material data	
Material housing	PUR
Locking material	PA
Mechanical data Mounting data	
Looking techniques	Snap-in connector
Environmental characteristics Climati	C
Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
Important installation notes	
Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Note on bending radius	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Installation Cable	
wire arrangement	white, yellow, blue, orange
Cable identification	798
Jacket Color	violet
Type of Certificate	cURus
7 1	

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Starding 4 wines around Cone Ther twisted Cable shalling (type) copper braid, tinned Cable shalling (coverage) 85 % Banding Fleeco, Foll Filer yes wine arrangement wine, yellow, blue, orange Cable weigh 68.86 µm Material jacket PUR Shore hardness jocket 89.80 ke A Shore hardness jocket 89.80 ke A Cable weigh 68.86 µm Material jacket PUR Cable meight 68.86 µm Cable meight 68.86 µm Cable meight 68.86 µm Cable meight 68.86 µm Cable content in the start of th	Amount stranding	1
Cabb enipeding File Banding Fileco, Foll Filer ysi Wita arrangement whito, yolow, buo, orango Cabb weigh 68,4 dym Material jacket1 PUR Shore hardness, jacket1 89 Shore A Freedom Troin ingredionti, glackut) 62,4 dym Outer-diameter (glacket) 6,7 mm Color (inner jacket) 7,7 mm Color (inner jacket) 7,8 mm Color (inner jacket) 7,8 mm Color (inner jacket) 1,4 mm Outer diameter insulation PE Amount wires 4 Outer diameter insulation 1,4 mm Color insulation 1,4 mm Outer diameter insulation 1,4 mm Color correspection (wire) 2,2 AWG Conductor corsesciention (wire) 2,2 AWG Conductor corsesciention (wire) 2,2 AWG Controit float capapity (kinner wire)	Stranding	4 wires around Core filler twisted
Cabb enipeding File Banding Fileco, Foll Filer ysi Wita arrangement whito, yolow, buo, orango Cabb weigh 68,4 dym Material jacket1 PUR Shore hardness, jacket1 89 Shore A Freedom Troin ingredionti, glackut) 62,4 dym Outer-diameter (glacket) 6,7 mm Color (inner jacket) 7,7 mm Color (inner jacket) 7,8 mm Color (inner jacket) 7,8 mm Color (inner jacket) 1,4 mm Outer diameter insulation PE Amount wires 4 Outer diameter insulation 1,4 mm Color insulation 1,4 mm Outer diameter insulation 1,4 mm Color correspection (wire) 2,2 AWG Conductor corsesciention (wire) 2,2 AWG Conductor corsesciention (wire) 2,2 AWG Controit float capapity (kinner wire)	Cable shielding (type)	copper braid, tinned
Fills yes wire arrangement white, valiow, blue, orange Cable weigh 68,64 grn Material jackat PUR Shore hardness jackat 98,9100 A Freedom from ingredients (jacket) 68,7 mm Tolerance outer dimeter (gacket) 6,7 mm Tolerance outer dimeter (gacket) 7,7 mm Tolerance outer dimeter (gacket) 7,8 % Color (more jacket) FNNC Color (more jacket) 7,8 % Color dimeter isolution 1,4 mm Outer diameter isolution 1,4 mm Color diameter isolution 1,4 mm Color diameter isolution 1,4 mm Colar diameter isolution 1,4 S %	Cable shielding (coverage)	85 %
wine arrangament while, yellow, blue, orange Cable weight 68,84 gm Material jacket PUR Shore hardness jacket 69 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Cut-diameter (jacket) 6,7 mm Toferance outer diameter (shoath) 1 5 % Calor (inner jacket) natur Material inner jacket) natur Material wei insulation FRNC Color (inner jacket) natur Material wei insulation 1,4 mm Outer diameter insulation 1,4 mm Outer diameter insulation 65 Shore D Ingrodient freeness wire insulation 165 Shore D Ingredient freeness wire insulation 162 AWG Conductor crossection (wire) 22 AWG Conductor crossection (wire) 22 AWG Current Oad capacity (standward) DD IN VDE 0298-4 Current Oad capacity (standward) DD IN VDE 0298-4 Current Oad capacity firm. wei 55 DAm @ 20 °C A Cwithstand voltage (wire - wire) 0000 V Electr	Banding	Fleece, Foil
Cable weight 68.64 g/m Material jacket PUR Shore hardness jacket 89 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diamater (jacket) 6.7 mm Tearance cuter diamater (sheat) 5 % Material inner jacket FRNC Colder (inner jacket) natur Material wire insulation PE Amount wires 4 Outer diamater (blerance core insulation 1.4 mm Outer diamater tolerance core insulation 1.5 % Shore hardness wire insulation 65 Shore D Tingredient free-service swire insulation 65 Shore D Amount strands (wire) 7 Diameter of single wires 22 AWG Conductor wire Stranded copper wire, bare Nominal voltage AC max. 300 V Current load capacity (inin, wire 4.8 A Characteristic imgedance inconsolation (wire) 15 % @ 00 MHz Electrical capacity line constant (wire - wire) 24 W @ 60 s Current load capacity (inin, wire 4.8 A C	Filler	yes
Instarted packet PUR Shore hardness jacket B9 Shore A Freedom from ingredents (jacket) tead-free, cadmium-free, CFC-free, halopen-free, silicone-free Outer diameter (jacket) 0.7 mm Tolerance outer diameter (jacket) 5 % Material inner jacket FRNC Color (mer jacket) natur Material inner jacket FRNC Color (mer jacket) natur Material inner jacket 4 Outer diameter insulation 1,4 mm Outer diameter insulation 65 Shore D Ingredient freeness wire insulation iead-free, CFC-free, halogen-free Amount strands (wire) 7 Dameter of single wires 22 AWG Conductor vires Stranded copper wire, bare Normial voltage AC max. 900 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 5000 DF/Am Power foegourty Winstand voltage (wire - wire) 2 kV @ 60 s AC withstand voltage (wire - wire) 2 kV @ 60 s Conductor vises 5000 DF/Am Power foegourty	wire arrangement	white, yellow, blue, orange
Shore hardness jacket Ø9 Shore A Freedom from ingredients (jacket) lead-free, caffunger, CFC-free, halopen-free Outer-diameter (jacket) 4.5 % Material inner jacket FRNC Color (inner jacket) $natur$ Material inner jacket FRNC Color (inner jacket) $natur$ Material inner jacket FRNC Color (inner jacket) $natur$ Material inner jacket FRNC Color (inner jacket) 1.4 rum Outer diameter insulation 1.4 rum Outer diameter insulation 4.5 % Shore hardness wire insulation 6.5 Shore D Ingredient freeness wire insulation 6.5 Shore D Ingredient freeness wire insulation 8.2 AWG Conductor consection (wire) 22 AWG Construct consection (wire) 22 AWG Construct consection (wire) 22 AWG Construct consection (wire) 20 AWG Construct consection (wire) $10.0 D V DE C298-4$ Current load capacity (landard) $10.0 D V DE C298-4$ Current load capacity (la	Cable weigth	68,64 g/m
Freedom from ingradients (jacket) lead-free, cadmium-free, CPC-free, halogen-free Outer-diameter (jacket) 6,7 mm Outer-diameter (jacket) 9,5 %. Material inner jacket FRNC Color (inner jacket) natur Material vien resulation PE Amount wires 4 Outer diameter insulation 1.4 mm Outer diameter insulation 1.5 %. Shore hardness wire insulation 65 Shore D Ingradient freeness wire insulation 163 %. Conduct drameter insulation 125 %. Diameter of single wires 22 AWG Canductor crosssection (wire) 7 Diameter of single wires Stranded copper wire, bare Current load capacity (strandard) 10 DN VDE 0298.4 Current load capacity (strandard) 10 DN VDE	Material jacket	PUR
Outer-diameter (jacket) 6,7 mm Tolerance outer diameter (jacket) ± 5 % Material iner jacket FINC Color (inner jacket) natur Material iner jacket FINC Color (inner jacket) natur Material iner jacket FINC Cuter diameter (solation) 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 stands (wire) 7 Diameter of single wires 22 AWG Conductor wires Stanaded copper wire, bare Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0288-4 Current load capacity (standard) to DIN VDE 0288-4 Current load capacity min. wire 4.8 A Chardnerstein impedance 100 2.1 5 % @ 100 MHz Electrical capacity line constant wire 55 D& M @ 20 °C AC withstand voltage (wire - wire) 50000 p.Fkm Power frequency withstand voltage (wire - shiele) 2 kV @ 60 s <tr< td=""><td>Shore hardness jacket</td><td>89 Shore A</td></tr<>	Shore hardness jacket	89 Shore A
Tolerance outer diameter (sheath) $\pm 5 %$ Material inner jacketFNNCColor (Inner jacket)naturMaterial wire insulationPEAmount wires4Outer diameter insulation1.4 mmOuter diameter insulation5 Shore DIngredient Tensos wire insulation65 Shore DIngredient Tensos wire insulation65 Shore DIngredient Tensos wire insulation7Dameter of single wires22 AWGConduct crossection (wire)7Dameter of single wires22 AWGConductor viresStranded copper wire, bareNominal voltage AC max.300 VCurrent load capacity (inti wire)100 N DE 0298-4Current load capacity (inti wire)25 SURm @ 20 °CAC withstand voltage (wire - wire)24 W @ 60 sElectrical capacity line constant wire55 SURm @ 20 °CAC withstand voltage (wire - wire)24 W @ 60 sElectrical capacity line constant (wire - wire)24 W @ 60 sAux. operating temperature (isdal)24 V @ 60 sMin. operating temperature (isdal)30 °COperating temperature (isdal)30 °COperating temperature (isdal)30 °COperating temperature (isdal)50 Cuter dometerCamelica capacity (inter wire)50 Cuter dometerGazoline resistanceGood, application-related testingGazoline resistanceGood, application-related testingGazoline resistanceDiol Cut of S011-0401 (Good, application-related testingGazoline resistanceDiol	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Material inner jacketFRNCColor (mer jacket)naturMaterial wire insulationPEAmount wires4Outer diameter insulation1.4 mmOuter diameter insulation5 %Shore hardness wire insulation65 Shore DIngredient treeness wire insulationlead-tree, CFC-free, halogen-freeAmount strands (wire)7Diameter of single wires22 AWGConductor crossection (wire)22 AWGConductor crossection (wire)22 AWGConductor crossection (wire)22 AWGConductor crossection (wire)22 AWGConductor viceStranded copper wire, bareNominal voltage AC max.300 VCurrent load capacity min. wire4.8 ACharacteristic impedance100 $\Omega \pm 15 \% \oplus 100$ MHzElectrical resistance line constant wire55 CMR $\oplus 20$ °CAC withstand voltage (wire - wire)2 kV \oplus 60 sElectrical capacity line constant (wire - wire)2 kV \oplus 60 sAC withstand voltage (wire - shield)2 kV \oplus 60 sAC withstand voltage (wire - shield)2 kV \oplus 60 sAC withstand voltage (wire - shield)2 kV \oplus 60 sAC with comparature max. (dynamic)70 °COperating temperature (tited)80 °COperating temperature (tited)80 °COperating temperature (tited)40 °CMax. operating temperature (tited)40 °CMax. operating temperature (tited)60 °COperating temperature (tited)60 °COperating temperature (tited)<	Outer-diameter (jacket)	6,7 mm
Color (inner jacket) natur Material wire insulation PE Amount wires 4 Outer diameter insulation 1.4 mm Outer diameter insulation 65 Shore D Ingredient Freeses wire insulation 65 Shore D Ingredient Freeses wire insulation 65 Shore D Ingredient Freeses wire insulation 62 Shore D Amount strands (wire) 7 Diameter of single wires 22 AWG Conductor crossection (wire) 22 AWG Conductor crossection (wire) 22 AWG Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) <td>Tolerance outer diameter (sheath)</td> <td>±5%</td>	Tolerance outer diameter (sheath)	±5%
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 1.4 mm Amount strands (wire) 7 Diameter of single wires 22 AWG Conductor crosssection (wire) 22 AWG Material conductor wire Stranded copper wire, bare Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (ini, wire 4.8 A Characteristic impedance 100 Q ± 15 % @ 100 MHz Electrical resistance line constant wire 55 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2 kV @ 60 s Electrical resistance 60 s Ac withstand voltage (wire - shield) 2 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Querating temperature (static) -40 °C	Material inner jacket	FRNC
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 crossection (wire) 22 AWG Material conductor wire Stranded copper wire, bare Naminal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Carrent load capacity (standard)	Color (inner jacket)	natur
Outer diameter insulation 1.4 mm Outer diameter lolerance core 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 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 (win. wire) 2 KV @ 60 s Electrical resistance line constant wire 5 C/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 (static) -40 °C Max. operating temperature (static) -40 °C Max. operating temperature (static) -30 °C Operating temperature max. (dynamic) -30 °C Operating temperature (static) -40 °C Fame resistance Good, application-related testing	Material wire insulation	PE
Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 65 Shore D Ingredient freeness wire insulation lead-free, CFC-free, halogen-free Amount Strands (wire) 7 Diameter of single wires 22 AWG Conductor crosssection (wire) 22 AWG 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 (standard) to DIN VDE 0298-4 Current load capacity (wint wire) 4.8 A Characteristic impedance 100 0.2 15 % @ 100 MHz Electrical resistance line constant (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 Mix. operating temperature (fixed) 30 °C Operating temperature (statc) 40 °C Max. operating temperature (fixed) 30 °C Operating temperature mix. (dynamic) 70 °C Flame resistance Good. application-r	Amount wires	4
Shore hardness wire insulation 65 Shore D Ingredient freeness wire insulation lead-free, CFC-free, halogen-free Amount strands (wire) 7 Diameter of single wires 22 AWG Conductor 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 (standard) to DIN VDE 0298-4 Current load capacity (wite-wire) 2 kV @ 60 s 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 Min. operating temperature (stalc) -40 °C Max. operating temperature (stalc) 2 kV @ 60 s Min. operating temperature (stalc) -40 °C Max. operating temperature (stalc) -40 °C Max. operating temperature (stalc) -30 °C Operating temperature min. (dynamic) -30 °C Operating temperature min. (dynamic) 7	Outer diameter insulation	1,4 mm
Ingredient freeness wire insulation lead-free, CFC-free, halogen-free Amount strands (wire) 7 Diameter of single wires 22 AWG Conductor crosssection (wire) 22 AWG Material conductor wire Stranded copper wire, bare Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (min. wire) 4.8 A Characteristic Impedance 100 Ω ± 15 % @ 100 MHz Electrical resistance line constant wire 55 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2 kV @ 60 s Electrical capacity line constant (wire - wire) 2 kV @ 60 s Min. operating temperature (stacic) 40 °C Max. operating temperature (stacic) 40 °C Max. operating temperature (stacic) 30 °C Operating temperature max. (dynamic) 30 °C Operating temperature max. (dynamic) 70 °C Flame resistance Gcod, application-related testing Gasoline resistance Good, application-related testing Gasoline resistance Good, appp	Outer diameter tolerance core insulation	±5%
Amount strands (wire) 7 Diameter of single wires 22 AWG Conductor crosssection (wire) 22 AWG Material conductor wire Stranded copper wire, bare Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) 5000 pF/km Electrical resistance 50000 pF/km Power frequency withstand voltage (wire - shield) 2 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (static) 70 °C Operating temperature max. (dynamic) 70 °C Flame resistance G	Shore hardness wire insulation	65 Shore D
Diameter of single wires 22 AWG Conductor crosssection (wire) 22 AWG Material conductor wire Stranded copper wire, bare Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (inc predactors) 500km @ 20 °C AC withstand voltage (wire - wire) 2 kV @ 60 s Electrical capacity (inc constant (wire - wire) 500km @ 20 °C AC 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) -40 °C Operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Goerating temperature (static) -70 °C Flame resistance Good, application-related testing Operating temperature (static) -70 °C Flame resistance Good	Ingredient freeness wire insulation	lead-free, CFC-free, halogen-free
Darket of single wires Conductor crosssection (wire) 22 AWG Material conductor wire Stranded copper wire, bare Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4.8 A Characteristic impedance 100 Ω ± 15 % @ 100 MHz Electrical resistance line constant wire 55 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2 kV @ 60 s Electrical capacity line constant (wire - wire) 50000 pF/km Power frequency withstand voltage (wire - jacket) 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 Min. operating temperature (ixed) 80 °C Operating temperature (ixed) 80 °C Operating temperature min. (dynamic) -30 °C Operating temperature min. (dynamic) 70 °C Flame resistance Good, application-related testing Gasoline resistance Good, application-related testing Gasoline resistance DIN EN 6081-404 Good, application-related testing Bending rad	Amount strands (wire)	7
Material conductor wireStranded copper wire, bareNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4.8 ACharacteristic impedance100 $\Omega \pm 15$ % \emptyset 100 MHzElectrical resistance line constant wire55 Ω /km \emptyset 20 °CAC withstand voltage (wire - wire)2 kV \emptyset 60 sElectrical capacity line constant (wire - wire)50000 pF/kmPower frequency withstand voltage (wire - shield)2 kV \emptyset 60 sAC withstand voltage (wire - shield)2 kV \emptyset 60 sMax. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °COperating temperature min. (dynamic)-30 °COperating temperature min. (dynamic)70 °CFlame resistanceIEC 60332-2-2 I UL 1581 § 1090 UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (dynamic)12 x Outer diameterNo. of bending ryceles (C-track)5 m \emptyset 25 °CNo. of torsion cycles1 Mio.	Diameter of single wires	22 AWG
Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4.8 ACharacteristic impedance100 $\Omega \pm 15 \% \oplus$ 100 MHzElectrical resistance line constant wire55 $\Omega/km \oplus$ 20 °CAC withstand voltage (wire - wire)2 kV \oplus 60 sElectrical capacity line constant (wire - wire)50000 pF/kmPower frequency withstand voltage (wire - jacket)2 kV \oplus 60 sAC withstand voltage (wire - shield)2 kV \oplus 60 sMin. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °COperating temperature min. (dynamic)-30 °COperating temperature max. (dynamic)70 °CFlame resistanceIEC 60332-2-2 I UL 1581 § 1090 UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingDin resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingDin gas	Conductor crosssection (wire)	22 AWG
Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4,8 ACharacteristic impedance100 $\Omega \pm 15 \% @ 100$ MHzElectrical resistance line constant wire55 $\Omega/km @ 20 °C$ AC withstand voltage (wire - wire)2 kV @ 60 sElectrical capacity line constant (wire - wire)2 kV @ 60 sElectrical capacity line constant (wire - wire)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (static)-40 °COperating temperature (static)-30 °COperating temperature min. (dynamic)-30 °COperating temperature max. (dynamic)70 °CFlame resistanceElec 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 testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (fixed)5 m @ 25 °CNo. of bending cycles (C-track)3 m/s @ 25 °CNo. of torsion cycles1 Mio.	Material conductor wire	Stranded copper wire, bare
Current load capacity min. wire4.8 ACharacteristic 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 pF/km Power frequency withstand voltage (wire - lacket) $2 \text{ kV } @ 60 \text{ s}$ 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)-40 °CMax. operating temperature (static)-40 °COperating temperature (mixed) $80 °C$ Operating temperature (mixed) $80 °C$ Operating temperature (mixed) $70 °C$ Flame resistanceIEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceDIN EN 60811-404 Good, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (fixed) $5 \times \text{ Outer diameter}$ Bending radius (dynamic) $12 \times \text{ Outer diameter}$ No. of bending cycles (C-track) $5 \text{ m} @ 25 °C$ Traversing distance (C-track) $5 \text{ m} @ 25 °C$ No. of torsion cycles1 Mio.	Nominal voltage AC max.	300 V
Characteristic impedance100 $\Omega \pm 15 \% @ 100 \text{ MHz}$ Electrical resistance line constant wire $55 \Omega/\text{km} @ 20 °C$ AC withstand voltage (wire - wire) $2 \text{ kV} @ 60 \text{ s}$ Electrical capacity line constant (wire - wire) 50000 pF/km Power frequency withstand voltage (wire - jacket) $2 \text{ kV} @ 60 \text{ s}$ AC withstand voltage (wire - shield) $2 \text{ kV} @ 60 \text{ s}$ Max. operating temperature (static)-40 °CMax. operating temperature (static)-40 °COperating temperature (mixed) $80 °C$ Operating temperature max. (dynamic)-30 °COperating temperature max. (dynamic)70 °CFlame resistanceIEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceDIN EN 60811-404 Good, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)12 x Outer diameterBending radius (dynamic)12 x Outer diameterTraversing distance (C-track)5 m @ 25 °CTravel speed (C-track)5 m @ 25 °CNo. of torsion cycles1 Mio.	Current load capacity (standard)	to DIN VDE 0298-4
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 (static) -40 °C Operating temperature (ixed) 80 °C Operating temperature (dynamic) -30 °C Operating temperature max. (dynamic) 70 °C Flame resistance IEC 60332-2-2 I UL 1581 § 1090 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 12 x Outer diameter No. of bending cycles (C-track) 3 Mio. Traversing distance (C-track) 5 m @ 25 °C No. of torsion cycles 1 Mio.	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 AC withstand voltage (wire - shield) 2 kV @ 60 s Max. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Operating temperature (ixed) 80 °C Operating temperature min. (dynamic) -30 °C Operating temperature max. (dynamic) 70 °C Flame resistance IEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DiN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 12 x Outer diameter No. of bending cycles (C-track) 5 m @ 25 °C Traversing distance (C-track) 5 m @ 25 °C No. of torsion cycles 1 Mio.	Characteristic impedance	100 Ω ± 15 % @ 100 MHz
Electrical capacity line constant (wire - wire) 50000 pF/km Power frequency withstand voltage (wire - jacket) 2 kV @ 60 s AC withstand voltage (wire - shield) 2 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -30 °C Operating temperature max. (dynamic) 70 °C Flame resistance IEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 12 x Outer diameter No. of bending cycles (C-track) 3 Mio. Traversing distance (C-track) 5 m @ 25 °C No. of torsion cycles 1 Mio.	Electrical resistance line constant wire	55 Ω/km @ 20 °C
Power frequency withstand voltage (wire - jacket)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sMax. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °COperating temperature (mixed)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 testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (fixed)5 x Outer diameterBending cycles (C-track)3 Mio.Traversing distance (C-track)5 m @ 25 °CNo. of torsion cycles1 Mio.	AC withstand voltage (wire - wire)	2 kV @ 60 s
jacket)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sMin. 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 testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)12 x Outer diameterNo. of bending cycles (C-track)3 Mio.Traversing distance (C-track)5 m @ 25 °CNo. of torsion cycles1 Mio.	Electrical capacity line constant (wire - wire)	50000 pF/km
Min. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °COperating temperature min. (dynamic)-30 °COperating temperature max. (dynamic)70 °CFlame resistanceIEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)12 x Outer diameterNo. of bending cycles (C-track)3 Mio.Traversing distance (C-track)5 m @ 25 °CNo. of torsion cycles1 Mio.		2 kV @ 60 s
Max. operating temperature (fixed)80 °COperating temperature min. (dynamic)-30 °COperating temperature max. (dynamic)70 °CFlame resistanceIEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)12 x Outer diameterNo. of bending cycles (C-track)3 Mio.Traversing distance (C-track)5 m @ 25 °CNo. of torsion cycles1 Mio.	AC withstand voltage (wire - shield)	2 kV @ 60 s
Operating temperature min. (dynamic) -30 °C Operating temperature max. (dynamic) 70 °C Flame resistance IEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 12 x Outer diameter No. of bending cycles (C-track) 3 Mio. Traversing distance (C-track) 5 m @ 25 °C No. of torsion cycles 1 Mio.	Min. operating temperature (static)	-40 °C
Operating temperature max. (dynamic)70 °CFlame resistanceIEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)12 x Outer diameterNo. of bending cycles (C-track)3 Mio.Traversing distance (C-track)5 m @ 25 °CNo. of torsion cycles1 Mio.	Max. operating temperature (fixed)	℃ ℃
Flame resistanceIEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)12 x Outer diameterNo. of bending cycles (C-track)3 Mio.Traversing distance (C-track)5 m @ 25 °CNo. of torsion cycles1 Mio.	Operating temperature min. (dynamic)	-30 °C
chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)12 x Outer diameterNo. of bending cycles (C-track)3 Mio.Traversing distance (C-track)5 m @ 25 °CTravel speed (C-track)3,3 m/s @ 25 °CNo. of torsion cycles1 Mio.	Operating temperature max. (dynamic)	70 °C
Gasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)12 x Outer diameterNo. of bending cycles (C-track)3 Mio.Traversing distance (C-track)5 m @ 25 °CTravel speed (C-track)3,3 m/s @ 25 °CNo. of torsion cycles1 Mio.	Flame resistance	IEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2
Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 12 x Outer diameter No. of bending cycles (C-track) 3 Mio. Traversing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 1 Mio.	chemical resistance	Good, application-related testing
Bending radius (fixed)5 x Outer diameterBending radius (dynamic)12 x Outer diameterNo. of bending cycles (C-track)3 Mio.Traversing distance (C-track)5 m @ 25 °CTravel speed (C-track)3,3 m/s @ 25 °CNo. of torsion cycles1 Mio.	Gasoline resistance	Good, application-related testing
Bending radius (dynamic) 12 x Outer diameter No. of bending cycles (C-track) 3 Mio. Traversing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 1 Mio.	Oil resistance	DIN EN 60811-404 Good, application-related testing
No. of bending cycles (C-track)3 Mio.Traversing distance (C-track)5 m @ 25 °CTravel speed (C-track)3,3 m/s @ 25 °CNo. of torsion cycles1 Mio.	Bending radius (fixed)	5 x Outer diameter
Traversing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 1 Mio.	Bending radius (dynamic)	12 x Outer diameter
Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 1 Mio.	No. of bending cycles (C-track)	3 Mio.
No. of torsion cycles 1 Mio.	Traversing distance (C-track)	5 m @ 25 °C
	Travel speed (C-track)	3,3 m/s @ 25 °C
Torsion stress ± 180 °/m	No. of torsion cycles	1 Mio.
	Torsion stress	± 180 °/m

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: 2024-06-21

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