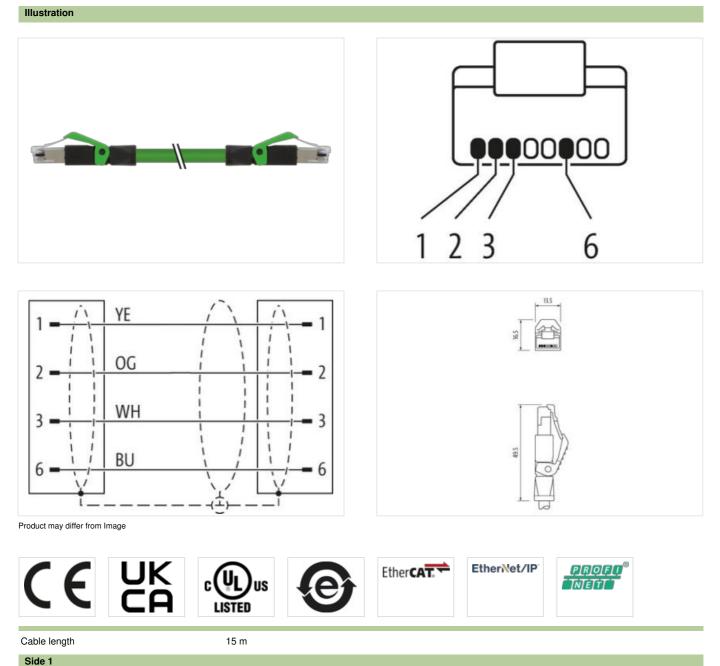


## RJ45 male 0° / RJ45 male 0° shielded

PVC 1x4xAWG22 shielded gn UL/CSA+drag ch. 15m

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	4048879540285
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 func	
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	
	Shap in connector
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   Cable	
wire arrangement	yellow, blue, orange, white
Cable identification	800
Jacket Color	green
	0

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Stranding 4 wices around Filer star-shaped twisted   Cable shiekling (type) cooper brail, limited   Cable shiekling (type) 68 %   Banding Fol   Filer yse   wire arrangement yseltow, blue, orange, white   Cable weight 73.7 pm   Material jacket PyC   Shore hardness jacket 85.5 Shore A   Freadom fram quedonts (gackat) 85.5 Shore A   Freadom fram quedonts (gackat) 85.5 Shore A   Freadom fram quedonts (gackat) 85.5 Shore A   Toleracoe outer diameter (sheath) 6.5 %   Adherial inform glockat FNC   Cable meter (sheath) 6.5 %   Amount wises 4   Outer diameter folderacio core insulation £ 5 %   Shore hardness wire insulation FS 15 Shore D   Forder dimeter folderacio core insulation £ 5 %   Material vine insulation FS 15 Shore D   Forder dimeter site insulation FS 5 %   Shore hardness wire insulation FS 5 %   Shore hardness wire insulation FS 5 %   Shore hardness wire insulation FS 5 %   Card dimeter folderacio (wire) Z AWG   Cardiner disalge wires Sulation (wire)   Carrent bad copacity fist and and yo	Amount stranding	1
Cabbe shielding (coverage)     85 %       Banding     Foil       Filer     yes       wire arrangement     yelow, blue, orange, white       Cabbe weigh     7.7 gm       Material jacket     PVC       Shron hardness jackal     85 £ Shore A       Freedom form ingedionts (jacka)     6.6 form       Cable relight     6.6 form       Cable relight     6.6 form       Cable relight     6.8 form       Cable relight     6.8 form       Cable relight     natur       Material inner jacket     FNNC       Cable relight     natur       Material wire insulation     PE       Amount wires     4       Outer diameter folderance core insulation     1.53 mm       Catter diameter tolerance core insulation     15.5 %       Shore hardness wire insulation     Isaa fore, CFC-free, halogen-free       Amount strands (wire)     7       Diameter of single wires     2.2 AWG       Canductor coressection (wire)     2.2 AWG       Canter for single wires     2.0 W @ 0.5       Carrent load capacity (islandard)	Stranding	4 wires around Filler star-shaped twisted
Banding Foil   Filer yea   wise arrangement yellow, blue, orange, white   Cable weight 73.7 g/m   Matorial jackot PVC   Shore hardness jacket 55.5 Shore A   Freedom from ingredients (jacket) lead-free, CFC-free   Outer-diameter (jacket) 6.6 m   Tolerance outer diameter (aheath) ± 5 %   Matorial inner jacket FRIVC   Color (inner jacket) natur   Matorial inner jacket FRIVC   Color (inner jacket) natur   Matorial inner jacket FRIVC   Other diameter insulation PE   Amount wires 4   Outer diameter insulation 1.53 mm   Outer diameter insulation 51.5 Shore D   Ingredient freeness wire insulation 153 fs Shore D   Ingredient freeness wire insulation 153.5 Shore D   Ingredient freeness wire insulation 51.5 Shore D   Ingredient freeness wire insulation 153.4 Shore D   Conductor crosssection (wire) 22 AWG   Canter diameter insulation 51.5 Shore D   Constructor crosssection (wire) 22 AWG   Current load capacity (int wire) 100 VD E 298-4   Current load capacity (int wire) 50 C	Cable shielding (type)	copper braid, tinned
Filleryeswire arrangementyellow, blue, orange, whileCable weigh73.7 g/mMaterial jacketPVCShore handness jacket85 ± 5 Shore AFreedom from ingredents (jacket)6.6 mmTolerace outer diameter (jacket)6.6 mmTolerace outer diameter (jacket)5.5 %Material ingrigutationPEAmount wires4Outer diameter (sheath)1.5 %Material ingrigutationPEAmount wires4Outer diameter insulation1.53 mmOuter diameter insulation5.5 ± 5 Shore DIngredient freeness wire insulation5.5 ± 5 Shore DIngredient freeness wire insulation5.5 ± 5 Shore DIngredient freeness wire insulation8.5 ± 5 Shore DIngredient freeness wire insulation2.2 W/GConductor crossection (wire)2.2 AWGConductor vires300 VCurrent load capacity (standard)100 DL 1 5 % 9 1 MHzElectrical rosistance line constant (wire)2.1 V @ 60 sCharacteristic impedance100 DL 1 5 % 9 1 MHzElectrical rosistant (wire)2.1 V @ 60 sCharacteristic impedance100 CL 1 5 % 9 1 MHzElectrical rosistant (wire)2.1 V @ 60 sCharacteristic impedance100 CL 1 5 % 9 1 MHzElectrical rosistant (wire)2.1 V @ 60 sCharacteristic impedance100 CL 1 5 % 9 1 MHzElectrical rosistant (wire)2.1 V @ 60 sCharacteristic impedance100 CL 1 5 % 9 1 MHzElectrical rosistance lin	Cable shielding (coverage)	85 %
wire arrangementyelow, blue, orange, whileCable weight73,7 g/mMaterial jacketPVCShore hardness jacket85 ± 5 Shore AFreedom from ingredients (jacket)6.6 mmTolerance outer diameter (elbeath)± 5 %Material jacketFRNCColor (inner jacket)naturMaterial inversionPEAmount wires4Outer diameter (rolerance)5.5 Shore DShore hardness wire insulation1.53 mmOuter diameter (rolerance)5.5 Shore DShore hardness wire insulation5.5 5 Shore DShore hardness wire insulation5.5 5 Shore DIngredient foreness wire insulation5.5 5 Shore DIngredient foreness wire insulation5.5 5 Shore DIngredient foreness wire insulation2.2 AWGConductor crosssaction (wire)2.2 AWGConductor verses300 VCurrent load capacity (standard)100 NV DE 0298-4Current load capacity (standard)100 NV DE 0298-4Current load capacity (standard)200 C 14 5 % 60 sAc withstand voltage (wire ~ wire)2.4 V/Q 60 sElectrical capacity line constant (wire ~ wire)2.0 V/Q 60 sComparising wires2.0 V/Q 60 sComparising enstance100 C 2Comparising enstance100 C 2Command voltage (wire ~ wire)2.4 V/Q 60 sElectrical capacity line constant (wire ~ wire)2.0 V/Q 60 sCommon voltage (wire ~ wire)2.4 V/Q 60 sComparising temporature (ritak)30 °C <t< td=""><td>Banding</td><td>Foil</td></t<>	Banding	Foil
Cable weight     78,7 g/m       Material jacket     PVC       Material jacket     85 5 5 Shore A       Freedom from ingredients (jacket)     lead-free, CFC-free       Outer diameter (jacket)     6.6 mm       Tolerance outer diameter (shault)     1.5 %       Material inner jacket     FINC       Color (inner jacket)     natur       Material wine isulation     PE       Amount wires     4       Outer diameter insulation     1.53 mm       Outer diameter insulation     5.5 5 Shore D       Ingredient freeness wire insulation     5.5 5 Shore D       Tigredient freeness wire insulation     16 5 %       Contructor crossection (wire)     7       Diameter of single wires     2.2 AWG       Contructor crossection (wire)     2.2 AWG       Contractor crossection (wire)     2.2 AWG       Constructor crossection (wire)     2.4 WG       Current load capacity (stinat ort)     10.0 VDE D284-4 <td< td=""><td>Filler</td><td>yes</td></td<>	Filler	yes
Material jacket     PVC       Shore hardness jacket     85 ± 5 Shore A       Freedom from ingredients (jacket)     Ieå 5 rhee, CFC-free       Outer diameter (jacket)     6,6 mm       Toleranco outer diameter (jacket)     6,6 mm       Toleranco outer diameter (jacket)     15 %       Material inner jacket     FRNC       Color (inner jacket)     natur       Material inner jacket     FRNC       Color (inner jacket)     1.53 mm       Outer diameter tolerance core insulation     1.53 mm       Outer diameter tolerance core insulation     1.53 mm       Duter diameter tolerance core insulation     1.63 mm       Ingredient freeness wire insulation     Iead-free, CFC-free, halogen-free       Amount strands (wire)     22 AWG       Conductor crosssection (wire)     22 AWG       Conductor wire     Stranded copper wire, bare  <	wire arrangement	yellow, blue, orange, white
Shore hardness jacket     85 ± 5 Shore A       Freedom from ingredients (jacket)     lead-free, CFC-free       Outer-dameter (jacket)     6.5 mm       Tolerance outer diameter (sheath)     ± 5 %       Material inner jacket     FINC       Color (inner jacket)     natur       Material wire insulation     PE       Amount wires     4       Outer dameter insulation     1.53 mm       Outer dameter insulation     5 %       Shore hardness wire insulation     5 5 Shore D       Ingredient freeness wire insulation     5 1 5 Shore D       Ingredient freeness wire insulation     5 2 2 AWG       Conductor crossess wire insulation     22 AWG       Conductor crossesciento (wire)     22 AWG       Carrent 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	Cable weigth	73,7 g/m
Freedom from ingredients (jacket)   lead-free, CFC-free     Outer-diameter (jacket)   6.6 mm     Tolerance outer diameter (jacket)   5 %     Material inner jacket   FRNC     Color (innor jacket)   natur     Material inner jacket   FRNC     Color (innor jacket)   natur     Material wire insulation   PE     Amount wires   4     Outer diameter insulation   1.5 mn     Culter diameter insulation   5 % 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     Nominal voltage AG max.   300 V     Current load capacity (standard)   to DIN VDE C28-4     Current lo	Material jacket	PVC
Outer-diameter (acket)6,6 mmTolerarce outer diameter (sheath) $\pm$ 5 %Matrial innar (acket)naturMatrial innar (acket)naturMatrial innar (acket)naturMatrial innar (acket)naturMatrial innar (acket)naturMatrial innar (acket)1.53 mmOuter diameter insulation $\pm$ 5 %Shore hardness wire insulation $\pm$ 5 %Shore hardness wire insulation $\pm$ 5 %Shore hardness wire insulation $\pm$ 5 %Color (inner (acket)lead-free, CFC-free, halogen-freeAmount strands (wire)7Diameter of single wires22 AWGConductor corsescition (wire)22 AWGConductor corsescition (wire)22 AWGConductor orsescition (wire)30 VCurrent load capacity (standard)to DIN VDE C298-4Current load capacity (win. wire)4.8 ACharacteristic impedance10 0.4 ± 5% @ 1 MHzElectrical resistance line constant (wire - wire)5000 pF/kmPower frequency withstand voltage (wire - wire)24V @ 60 sAc withstand voltage (wire - wire)24V @ 60 sMax, operating temperature (static)-30 °CMax, operating temperature (static)-30 °COperating temperature (static)-30 °COperating temperature (static)-30 °COperating temperature (st	Shore hardness jacket	85 ± 5 Shore A
Tolerance outer diameter (sheath) $\pm$ 5 %Material wire diameter (sheath) $\pm$ 5 %Material wire inculationPEAmount viries4Outer diameter insulation1,55 mmOuter diameter insulation5 %Shore hardness wire insulation55 $\pm$ 5 Shore DIngredient freeness wire insulation65 $\pm$ 5 %Shore hardness wire insulation165 $\pm$ 5 Shore DIngredient freeness wire insulation164-free, OFC-free, halogen-freeAmount strands (wire)7Diameter of single wires22 AWGConductor crossection (wire)22 AWGConductor viroeStranded copper wire, bareNaminal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 028+4Current load capacity (standard)to DIN VDE 028+4Current load capacity (standard)to DIN VDE 028+4Current load capacity (standard)50 CAm @ 20 °CAC withstand voltage (wire - wire)24 V@ 60 sElectrical capacity line constant wire55 CAm @ 20 °CAC withstand voltage (wire - wire)24 V@ 60 sMin. operating temperature (static)-30 °CMax. operating temperature (static)-30 °COperating temperature (static)-30 °COperating temperature (static)-30 °CCord capacitage temperature (static)-30 °COperating temperature max. (dynamic)-10 °COperating temperature max. (dynamic)-10 °COperating temperature max. (dynamic)-10 °COperating temperature max. (d	Freedom from ingredients (jacket)	lead-free, CFC-free
Material inner jacketFRNCColor (inner jacket)naturMaterial wire insulationPEAmount wires4Outer diameter insulation1.53 mmOuter diameter tolerance core insulation $\pm 5 \%$ Shore hardness wire insulation $\pm 5 \%$ Diameter tolerance core insulation $\pm 5 \%$ Diameter tolerance core insulation $\pm 5 \%$ Diameter of single wires $22 \text{ AWG}$ Conductor crosssection (wire) $22 \text{ AWG}$ Current load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity (wire - wire) $28 \text{ V} @ 60 \text{ s}$ Electrical resistance line constant wire $48 \text{ A}$ Characteristic impedance $100 \Omega \pm 15 \% @ 1 \text{ MHz}$ Electrical capacity (wire - wire) $28 \text{ V} @ 60 \text{ s}$ Electrical capacity (wire - wire) $28 \text{ V} @ 60 \text{ s}$ Electrical capacity withstand voltage (wire - wire) $28 \text{ V} @ 60 \text{ s}$ Ac withstand voltage (wire - shield) $28 \text{ V} @ 60 \text{ s}$ Ac withstand voltage (wire - shield) $28 \text{ V} @ 60 \text{ s}$ Min. operating temperature (mixel) $30 ^{\circ}$ Max. operating temperature (mixel) $30 ^{\circ}$ Max. operating temperature (mixel) $30 ^{\circ}$ Max. operating temperature (mixel) $30 ^{\circ}$ <t< td=""><td>Outer-diameter (jacket)</td><td>6,6 mm</td></t<>	Outer-diameter (jacket)	6,6 mm
Color (inner jacket)naturMaterial wire insulationPEAmount wires4Outer diameter insulation1.53 mmOuter diameter insulation $\pm 5 \%$ Shore hardness wire insulation $5 \pm 5$ Shore DIngredient freeness wire insulation $5 \pm 5$ Shore DIngredient freeness wire insulation $b \pm 5 \%$ Outer diameter of single wires22 AWGConductor crossection (wire)7Diameter of single wires22 AWGConductor wireStranded coper 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 (wire - wire)2KV @ 60 sElectrical resistance line constant wire55 $\Omega$ km @ 20 °CAC withstand voltage (wire - wire)2kV @ 60 sPower frequency withstand voltage (wire - wire)2kV @ 60 sMin operating temperature (static)-30 °CQoerating temperature (static)-30 °COperating temperature (static)-30 °CMax. operating temperature (static)-30 °CParaferistic coding temperature (static)-30 °CFlame resistanceUL 1581 § 1100 FT2   IEC 60332-2·2Chernical resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testing <td< td=""><td>Tolerance outer diameter (sheath)</td><td>±5%</td></td<>	Tolerance outer diameter (sheath)	±5%
Material wire insulationPEAmount Wires4Outer diameter insulation1,53 mmOuter diameter insulation $\pm 5$ %Shore hardness wire insulation $55 \pm 5$ Shore DIngredient freeness wire insulationlead-tree, CFC-free, halogen-freeAmount strands (wire)7Diameter of single wires22 AWGConductor crosssection (wire)22 AWGMaterial conductor wireStranded copper wire, bareNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0286-4Current load capacity (standard)to DIN VDE 0286-4Current load capacity (wire-wire)24 KV @ 60 sElectrical resistance line constant wire55 0km @ 20 °CAC withstand voltage (wire - wire)24 KV @ 60 sElectrical capacity line constant (wire wire)50000 pF/kmPower frequency withstand voltage (wire - \$10 °C24 KV @ 60 sAC withstand voltage (wire - shield)24 KV @ 60 sAC withstand voltage (wire - shield)-30 °CMax. operating temperature (static)-30 °CMax. operating temperature (static)-30 °CMax. operating temperature (static)-10 °COperating temperature (static)-10 °COperating temperature mix. (dynamic)70 °CFlame resistanceGood, application-related testingGasoline resistanceGood, application-related testingGasoline resistanceGood, application-related testingGasoline resistanceGood, application-related testingGasoline re	Material inner jacket	FRNC
Amount wires4Outer diameter insulation1.53 mm.Outer diameter tolerance core insulation $\pm$ 5 %Shore hardness wire insulation55 ± 5 Shore DIngredient freeness wire insulationlead-free, CFC-free, halogen-freeAmount strands (wire)7Diameter of single wires22 AWGConductor crossection (wire)22 AWGMaterial conductor wireStranded copper wire, bareNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0288-4Current load capacity (standard)to DIN VDE 0288-4Current load capacity (mire - wire)2 kV @ 60 sElectrical greistance line constant wire55 Ω/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sElectrical greistance line constant (wire wire)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sMin. operating temperature (static)-30 °CMax. operating temperature (static)-30 °COperating temperature (static)-10 °COperating temperature (static)-10 °COperating temperature (static)-10 °COperating temperature (static)-00 °CImmeresistanceGood, application-related testingOil resistanceGood, application-related testingOil resistance <t< td=""><td>Color (inner jacket)</td><td>natur</td></t<>	Color (inner jacket)	natur
Outer diameter insulation1.53 mmOuter diameter tolerance core insulation $\pm$ 5 %Shore hardness wire insulation $\pm$ 5 %Shore hardness wire insulationlead-tree, CFC-tree, halogen-freeAmount strands (wire)7Diameter of single wires22 AWGConductor crosssection (wire)22 AWGMaterial 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 % @ 1 MHzElectrical resistance line constant wire55 $\Omega$ km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sElectrical capacity line constant (wire - wire)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sMax. operating temperature (static)-30 °CMax. operating temperature (static)-30 °CMax. operating temperature (static)-30 °COperating temperature (static)-30 °COperati	Material wire insulation	PE
Outer diameter tolerance core insulation     ± 5 %       Shore hardness wire insulation     55 ± 5 Shore D       Ingredient freeness wire insulation     lead-free, CFC-free, halogen-free       Amount strands (wire)     7       Diameter of single wires     22 AWG       Conductor crosssection (wire)     22 AWG       Material conductor wire     Stranded copper wire, bare       Nominal voltage AC max.     300 V       Current load capacity (standard)     to DIN VDE 0298-4       Current load capacity min. wire     4.8 A       Characteristic impedance     100 Ω± 15 % @ 1 MHz       Electrical resistance line constant wire     55 Ωkm @ 20 °C       AC withstand voltage (wire - wire)     2 kV @ 60 s       Electrical capacity line constant (wire - wire)     2 kV @ 60 s       AC withstand voltage (wire - shield)     2 kV @ 60 s       Max. operating temperature (fixed)     -30 °C       Max. operating temperature (fixed)     -30 °C       Operating temperature (fixed)	Amount wires	4
Shore hardness wire insulation $55 \pm 5$ Shore DIngredient freeness wire insulationlead-free, CFC-free, halogen-freeAmount strands (wire)7Diameter of single wires22 AWGConductor crossection (wire)22 AWGMaterial 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 (wire - wire) $2 kV @ 60 s$ 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) $2 kV @ 60 s$ Min: operating temperature (static) $-30 °C$ Max. operating temperature (static) $-30 °C$ Max. operating temperature (static) $-30 °C$ Max. operating temperature (static) $-30 °C$ Operating temperature (static) $-30 °C$ Max. operating temperature (static) $-70 °C$ Flame resistanceUL 1581 § 1000   UL 1581 § 1100 FT2   IEC 60332-2-2Chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testing	Outer diameter insulation	1,53 mm
Ingredient freeness wire insulationlead-free, CFC-free, halogen-freeAmount strands (wire)7Diameter of single wires22 AWGConductor crosssection (wire)22 AWGMaterial 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 $\Omega \pm 15 \% @ 1$ MHzElectrical resistance line constant wire55 $\Omega Km @ 20 °C$ AC withstand voltage (wire - wire)2 kV @ 60 sElectrical capacity line constant (wire - wire)50000 pF/kmPower frequency withstand voltage (wire - jackel)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sMin. operating temperature (static)-30 °CMax. operating temperature (static)-30 °COperating temperature min. (dynamic)-10 °COperating temperature min. (dynamic)-10 °COperating temperature min. (dynamic)-10 °CGasoline resistanceGood, application-related testingGasoline resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testin	Outer diameter tolerance core insulation	±5%
Amount strands (wire)7Diameter of single wires22 AWGConductor crosssection (wire)22 AWGMaterial conductor wireStranded copper wire, bareMaterial conductor wireStranded copper wire, bareMominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity ime wire4,8 ACharacteristic impedance100 $\Omega \pm 15 \% @ 1$ MHzElectrical resistance line constant wire55 $\Omega$ /km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sElectrical capacity line constant (wire - wire)50000 pF/kmPower frequency withstand voltage (wire - shield)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sMax. operating temperature (fixed)80 °COperating temperature min. (dynamic)-10 °COperating temperature max. (dynamic)70 °CFlame resistanceUL 1581 § 1100 FT2   IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil	Shore hardness wire insulation	55 ± 5 Shore D
Diameter of single wires22 AWGConductor crosssection (wire)22 AWGMaterial conductor wireStranded copper wire, bareNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Characteristic impedance100 $\Omega \pm 15 \% \oplus 1$ MHzElectrical resistance line constant wire55 $\Omega/km \oplus 20 \ ^{\circ}C$ AC withstand voltage (wire - wire)2 kV $\oplus$ 60 sElectrical capacity withstand voltage (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 withstand voltage (wire - shield)2 kV $\oplus$ 60 sMin. operating temperature (static)-30 \ ^{\circ}CMax. operating temperature (static)-30 \ ^{\circ}COperating temperature min. (dynamic)-10 \ ^{\circ}COperating temperature (static)-30 \ ^{\circ}CFlame resistanceUL 1581 § 1000   UL 1581 § 1100 FT2   IEC 60332-2-2chemical resistanceGood, application-related testingGil resistanceGood, application-related testingOil resistanc	Ingredient freeness wire insulation	lead-free, CFC-free, halogen-free
Conductor crosssection (wire)     22 AWG       Material conductor wire     Stranded copper wire, bare       Nominal voltage AC max.     300 V       Current load capacity (standard)     to DIN VDE 0298-4       Current load capacity (standard)     to DIN VDE 0298-4       Current load capacity min. wire     4,8 A       Characteristic impedance     100 0.2 ± 15 % @ 1 MHz       Electrical resistance line constant wire     55 Ω/km @ 20 °C       AC withstand voltage (wire - wire)     2 kV @ 60 s       Electrical capacity line constant (wire - wire)     50000 pF/km       Power frequency withstand voltage (wire - jacket)     2 kV @ 60 s       AC withstand voltage (wire - shield)     2 kV @ 60 s       Min. operating temperature (static)     -30 °C       Max. operating temperature (static)     -30 °C       Operating temperature min. (dynamic)     -10 °C       Operating temperature min. (dynamic)     70 °C       Flame resistance     Good, application-related testing       Gasoline resistance     Good, application-related testing       Oil resistance     Good, application-related testing       Oil resistance     Good, application-related testing       Oil r	Amount strands (wire)	7
Material conductor wire     Stranded copper wire, bare       Nominal voltage AC max.     300 V       Current load capacity (standard)     to DIN VDE 0298.4       Current load capacity min. wire     4.8 A       Characteristic impedance     100 Ω ± 15 % @ 1 MHz       Electrical resistance line constant wire     55 Ω/km @ 20 °C       AC withstand voltage (wire - wire)     2 kV @ 60 s       Electrical capacity line constant (wire - wire)     50000 pF/km       Power frequency withstand voltage (wire - jacket)     2 kV @ 60 s       AC withstand voltage (wire - shield)     2 kV @ 60 s       Min. operating temperature (static)     -30 °C       Max. operating temperature (static)     -30 °C       Operating temperature min. (dynamic)     -10 °C       Operating temperature min. (dynamic)     70 °C       Flame resistance     UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2       chemical resistance     Good, application-related testing       Gasoline resistance     Good, application-related testing       Gasoline resistance     Good, application-related testing       Oil resistance     Good, application-related testing       Oil resistance     Good, application-related testing	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 impedance $100 \Omega \pm 15 \% @ 1 MHz$ 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) $2 kV @ 60 s$ AC withstand voltage (wire - shield) $2 kV @ 60 s$ AC withstand voltage (wire - shield) $2 kV @ 60 s$ AC withstand voltage (wire - shield) $2 kV @ 60 s$ Max. operating temperature (static)-30 °CMax. operating temperature (static)-30 °COperating temperature max. (dynamic)-10 °COperating temperature max. (dynamic)70 °CFlame resistanceUL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2chemical resistanceGood, application-related testingGoli resistanceGood, application-related testingOil resistanceGood, application-related testing   DIN EN 60811-404Bending radius (dynamic)15 x Outer diameter <t< td=""><td>Conductor crosssection (wire)</td><td>22 AWG</td></t<>	Conductor crosssection (wire)	22 AWG
Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4.8 ACharacteristic impedance $100 \Omega \pm 15 \% \oplus 1$ MHzElectrical resistance line constant wire $55 \Omega / km \oplus 20 \degree C$ AC withstand voltage (wire - wire) $2 kV \oplus 60 \ s$ Electrical capacity line constant (wire - wire) $50000 \ pF / km$ Power frequency withstand voltage (wire - jacket) $2 kV \oplus 60 \ s$ AC withstand voltage (wire - shield) $2 kV \oplus 60 \ s$ AC withstand voltage (wire - shield) $2 kV \oplus 60 \ s$ AC withstand voltage (wire - shield) $2 kV \oplus 60 \ s$ AC withstand voltage (wire - shield) $2 kV \oplus 60 \ s$ AC withstand voltage (wire - shield) $2 kV \oplus 60 \ s$ Max. operating temperature (static)-30 °CMax. operating temperature (fixed) $80 \degree C$ Operating temperature max. (dynamic)-10 °COperating temperature max. (dynamic)70 °CFlame resistanceUL 1581 § 1100   UL 1581 § 1100 FT2   IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testing   DIN EN 60811-404Bending radius (fixed)5 x Outer diameterNo. of bending cycles (C-track)2 Mio. @ 25 °CTraversing distance (C-track)5 m @ 25 °C	Material conductor wire	Stranded copper wire, bare
Current load capacity min. wire4,8 ACharacteristic impedance100 $\Omega \pm 15 \% @ 1$ MHzElectrical 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) $2 kV @ 60 s$ AC withstand voltage (wire - shield) $2 kV @ 60 s$ AC withstand voltage (wire - shield) $2 kV @ 60 s$ Max. operating temperature (static) $-30 °C$ Max. operating temperature (fixed) $80 °C$ Operating temperature min. (dynamic) $-10 °C$ Operating temperature max. (dynamic) $70 °C$ Flame resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil res	Nominal voltage AC max.	300 V
Characteristic impedance   100 Ω ± 15 % @ 1 MHz     Electrical resistance line constant wire   55 Ω/km @ 20 °C     AC withstand voltage (wire - wire)   2 kV @ 60 s     Electrical capacity line constant (wire - wire)   50000 pF/km     Power frequency withstand voltage (wire - jacket)   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 (static)   -30 °C     Max. operating temperature (static)   -30 °C     Operating temperature (static)   -10 °C     Operating temperature max. (dynamic)   -10 °C     Operating temperature max. (dynamic)   70 °C     Flame resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Oil resistance   Good, application-related testing     No. of bending radius (dynamic)   15 x Outer diameter     Bending radius (dynamic)   15 x Outer diameter     No. of bending cycles (C-track)   2 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     Max. operating temperature (static)   -30 °C     Max. operating temperature (fixed)   80 °C     Operating temperature min. (dynamic)   -10 °C     Operating temperature max. (dynamic)   70 °C     Flame resistance   UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2     chemical resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Oil resistance   Good, application-related testing     No. of bending cycle	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     Min. operating temperature (static)   -30 °C     Max. operating temperature (fixed)   80 °C     Operating temperature min. (dynamic)   -10 °C     Operating temperature max. (dynamic)   70 °C     Flame resistance   UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2     chemical resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Oil resistance   Good, application-related testing     No. of bending cycles (C-track)   5 x Outer diameter     Bending radius (dynamic)   15 x Outer diameter     No. of bending cycles (C-track)   5 m @ 25 °C	Characteristic impedance	100 Ω ± 15 % @ 1 MHz
Electrical capacity line constant (wire - wire)50000 pF/kmPower frequency withstand voltage (wire - jacket)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sMin. operating temperature (static)-30 °CMax. operating temperature (fixed)80 °COperating temperature min. (dynamic)-10 °COperating temperature max. (dynamic)70 °CFlame resistanceUL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingDi resistanceGood, application-related testingNo. of bending cycles (C-track)15 x Outer diameterNo. of bending cycles (C-track)2 Mio. @ 25 °CTraversing distance (C-track)5 m @ 25 °C	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 sMin. operating temperature (static)-30 °CMax. operating temperature (fixed)80 °COperating temperature min. (dynamic)-10 °COperating temperature max. (dynamic)70 °CFlame resistanceUL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingNo. of bending cycles (C-track)15 x Outer diameterNo. of bending cycles (C-track)2 Mio. @ 25 °CTraversing distance (C-track)5 m @ 25 °C	AC withstand voltage (wire - wire)	2 kV @ 60 s
jacket)Z KV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sMin. operating temperature (static)-30 °CMax. operating temperature (fixed)80 °COperating temperature min. (dynamic)-10 °COperating temperature max. (dynamic)70 °CFlame resistanceUL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingNo. of bending radius (fixed)5 x Outer diameterNo. of bending cycles (C-track)2 Mio. @ 25 °CTraversing distance (C-track)5 m @ 25 °C	Electrical capacity line constant (wire - wire)	50000 pF/km
Min. operating temperature (static)-30 °CMax. operating temperature (fixed)80 °COperating temperature min. (dynamic)-10 °COperating temperature max. (dynamic)70 °CFlame resistanceUL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingNo. of bending radius (fixed)5 x Outer diameterBending radius (chrack)2 Mio. @ 25 °CTraversing distance (C-track)5 m @ 25 °C		2 kV @ 60 s
Max. operating temperature (fixed)80 °COperating temperature min. (dynamic)-10 °COperating temperature max. (dynamic)70 °CFlame resistanceUL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingDif stanceS × Outer diameterBending radius (fixed)5 × Outer diameterBending radius (dynamic)15 × Outer diameterNo. of bending cycles (C-track)2 Mio. @ 25 °CTraversing distance (C-track)5 m @ 25 °C	AC withstand voltage (wire - shield)	2 kV @ 60 s
Operating temperature min. (dynamic)   -10 °C     Operating temperature max. (dynamic)   70 °C     Flame resistance   UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2     chemical resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Oil resistance   Good, application-related testing   DIN EN 60811-404     Bending radius (fixed)   5 x Outer diameter     Bending radius (dynamic)   15 x Outer diameter     No. of bending cycles (C-track)   2 Mio. @ 25 °C     Traversing distance (C-track)   5 m @ 25 °C	Min. operating temperature (static)	-30 °C
Operating temperature max. (dynamic)70 °CFlame resistanceUL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testing   DIN EN 60811-404Bending radius (fixed)5 x Outer diameterBending radius (dynamic)15 x Outer diameterNo. of bending cycles (C-track)2 Mio. @ 25 °CTraversing distance (C-track)5 m @ 25 °C	Max. operating temperature (fixed)	80 °C
Flame resistance   UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2     chemical resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Oil resistance   Good, application-related testing     Oil resistance   Good, application-related testing   DIN EN 60811-404     Bending radius (fixed)   5 x Outer diameter     Bending radius (dynamic)   15 x Outer diameter     No. of bending cycles (C-track)   2 Mio. @ 25 °C     Traversing distance (C-track)   5 m @ 25 °C	Operating temperature min. (dynamic)	-10 °C
chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testing   DIN EN 60811-404Bending radius (fixed)5 x Outer diameterBending radius (dynamic)15 x Outer diameterNo. of bending cycles (C-track)2 Mio. @ 25 °CTraversing distance (C-track)5 m @ 25 °C	Operating temperature max. (dynamic)	70 °C
Gasoline resistance   Good, application-related testing     Oil resistance   Good, application-related testing   DIN EN 60811-404     Bending radius (fixed)   5 x Outer diameter     Bending radius (dynamic)   15 x Outer diameter     No. of bending cycles (C-track)   2 Mio. @ 25 °C     Traversing distance (C-track)   5 m @ 25 °C	Flame resistance	UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2
Oil resistance   Good, application-related testing   DIN EN 60811-404     Bending radius (fixed)   5 x Outer diameter     Bending radius (dynamic)   15 x Outer diameter     No. of bending cycles (C-track)   2 Mio. @ 25 °C     Traversing distance (C-track)   5 m @ 25 °C	chemical resistance	Good, application-related testing
Bending radius (fixed)5 x Outer diameterBending radius (dynamic)15 x Outer diameterNo. of bending cycles (C-track)2 Mio. @ 25 °CTraversing distance (C-track)5 m @ 25 °C	Gasoline resistance	Good, application-related testing
Bending radius (dynamic)15 x Outer diameterNo. of bending cycles (C-track)2 Mio. @ 25 °CTraversing distance (C-track)5 m @ 25 °C	Oil resistance	Good, application-related testing   DIN EN 60811-404
No. of bending cycles (C-track)2 Mio. @ 25 °CTraversing distance (C-track)5 m @ 25 °C	Bending radius (fixed)	5 x Outer diameter
Traversing distance (C-track) 5 m @ 25 °C	Bending radius (dynamic)	15 x Outer diameter
	No. of bending cycles (C-track)	2 Mio. @ 25 °C
Travel speed (C-track) 3,3 m/s @ 25 °C	Traversing distance (C-track)	5 m @ 25 °C
	Travel speed (C-track)	3,3 m/s @ 25 °C

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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