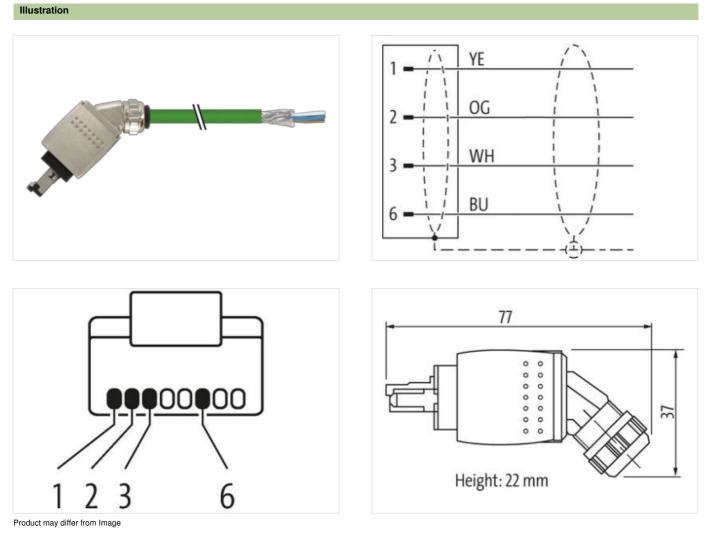


## RJ45 Push Pull male 45° with cable AIDA

PUR 1x4xAWG22 shielded gn UL/CSA+drag ch. 7.5m

Product fulfills requirements according to UN/ECE R118 Ethernet CAT5 Male straight RJ45PP, 4-pole shielded Push Pull Further cable lengths on request. Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request.

## Link to Product





Cable length

7,5 m

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**Commercial data** ECLASS-6.0

ECLASS-6.1

ECLASS-7.0

ECLASS-8.0

ECLASS-9.0

ECLASS-10.1

ECLASS-11.1

ECLASS-12.0

customs tariff number

ETIM-5.0

GTIN



Packaging unit	1	
Electrical data   Supply		
Operating voltage DC max.	60 V	
Operating voltage DC max. (UL-listed)	30 V	
Current operating per contact max.	1,76 A	
Industrial communication		
Transfer parameters	CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)	
Data transmission rate max.	100 MBit/s	
Industrial communication   Ethernet functionality		
duplex	Full duplex	
Device protection   Electrical		
Degree of protection (EN IEC 60529)	IP65, IP67	
Additional condition protection degree	inserted, screwed	
Pollution Degree	3	
Rated surge voltage	1 kV	
Material group (IEC 60664-1)		
Mechanical data		
Contour for corrugated hose	without	
Mechanical data   Material data		
Coating locking	Nickeled	
Locking material	Zinc die-casting	
Mechanical data   Mounting data		
Looking techniques	Push Pull	
Environmental characteristics   Climatic		
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

Installation   Gable	
Cable identification	796
Jacket Color	green
Type of Certificate	cURus
Amount stranding	1
Stranding	4 wires around Core filler twisted
Cable shielding (type)	copper braid, tinned

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Banding     Flace. Foll       Filer     yes       wire arrangement     wilk yolkov, blue, orange       Cable weight     69.3 gm       Material jacket     PUR       Shore hardness jacket     89 Shore A       Freedent from ingredentis (jacket)     1.8 ad Free. cadminu-ree, CFC-tree, halogen-free. silicone-free       Cuber-diameter (jacket)     1.5 %       Color (inner jacket)     1.5 %       Color (inner jacket)     1.6 %       Color (inner jacket)     1.6 %       Color (inner jacket)     1.4 mm       Color (inner jacket)     5 %       Shore harchness wire insulation     1.6 %       Shore harchness wire insulation     1.6 %       Color (inner jacket)     5 m @ 25 %       Travering distance (C-track)     5 m @ 25 %       Travering distance (C-track)     5 m @ 25 %       Travering distance (C-track)     5 m @ 25 %	Cable shielding (coverage)	85 %
File     yes       wile arrangement     wile yellow, blue, orange       Cable weigh     63 g/m       Material packet     PUR       Shore hardness jacket     85 Shore A       Freedom from ingredient's (jacket)     67 mm       Outer diameter (jacket)     67 mm       Outer diameter (jacket)     67 mm       Orderance outer diameter (shath)     2 5 %       Material wire insulation     PE       Amount wires     4       Outer diameter insulation     14 mm       Outer diameter insulation     5 Since D       Shore hardness wire insulation     65 Shore D       Shore hardness wire insulation     16 darket, CPC rise, halogen-free       Amount wires     4       Outer diameter insulation     16 darket, CPC rise, halogen-free       Amount wires     25 Since D       Shore hardness wire insulation     16 darket, CPC rise, halogen-free       Amount wires     22 AWG       Contactor crossessection (wire)     23 AWG       Contactor crossescolon (wire)     33 mk@ Ø 5 °C       Travel speed (C-track)     3 mk@ Ø 5 °C       Travel speed (C-tra		
wire arrangement     white, yellow, blue, orange       Cable weight     663 g/m       Material jacket     PUR       Shore hardness jacket     89 Shore A       Freedom from logidomis (jacket)     Isaa Free, cadmum free, CPC free, halogen-free, silicone-free       Outer-diameter (jacket)     6,7 mm       Toferance outer diameter (hacket)     5 %       Material iner jacket     FRNC       Color (mer jacket)     natur       Material iner jacket     FRNC       Color (mer jacket)     natur       Material iner jacket     FRNC       Color (mer jacket)     1.4 mm       Outer diameter traubation     1.5 %       Shore hardness wire insulation     6.5 Shore D       Ingredient freeness wire insulation     9.5 %       Travel space(C track)     5 m @ 25 °C       Travel space(C track)     3 m @ 25 °C       Travel space(C track)     3 m @		ves
Cable weight     69.3 g/m       Material jacket     PUR       Material jacket     99 Shore A       Freedom from ingrodients jacket)     lead-free, cadmium-free, CFC-free, halogen-free, silicone-free       Outer diameter (jacket)     6.7 mm       Calor (concept	wire arrangement	
Material jacket     PUR       Shore hardness jacket     B9 Shore A       Freedom from ingredients (jacket)     6.7 mm       Tolerance outer diameter (jacket)     natur       Material inter jacket     FRNO       Colur (inner jackot)     natur       Material wire insulation     1.4 mm       Outer diameter insulation     65 Shore D       Ingredient freeness wire insulation     65 Shore D       Ingredient freeness wire insulation     65 Shore D       Ingredient freeness wire insulation     82 AWG       Conductor rossection (wire)     22 AWG       Conductor vires     Stranded copper wire, bare       Tawersing distance (C-track)     5 m @ 25 °C       Travel speed (C-track)     3 Mio. @ 25 °C       Travel speed (C-track)     3 Mio. @ 25 °C       Tavel speed (C-track)     3 Mio. @ 25 °C       Current load capacity min. wire     4,8 A       Charactoristic impedance     100 Ω L 1 5 % [9 100 MHz       Elactrical resistat	-	69.3 g/m
Shore hardness jacket     89 Shore A       Freedom from ingredients (jacket)     lead-free, cadmium-free, CFC-free, halogen-free       Outer-diameter (jacket)     1.5 %       Material inner jacket     FRINC       Color (inner jacket)     natur       Material inner jacket     FRINC       Color (inner jacket)     natur       Material inner jacket     4       Outer diameter insulation     1.4 mm       Outer diameter insulation     6.5 Shore D       Ingredient freeness wire insulation     6.5 Shore D       Ingredient freeness wire insulation     6.5 Shore D       Ingredient freeness wire insulation     6.8 Shore A       Canductor crossection (wire)     22 AWG       Canductor crossection (wire)     22 AWG       Canductor crossection (wire)     23 mis @ 25 °C       Traversing distance (C-track)     3 Mio. @ 25 °C       Travel speed (C-track)     3.0 W @ 25 °C       Currend tood capa	Material jacket	
Outer-diameter (jacket)6.7 mmTolerance outer diameter (jacket)15 %Material inner jacketFRNCColor (inner jacket)naturMaterial inner jacketPEAnount wires4Outer diameter insulation1.4 mmOuter diameter tolerance core insulation1.5 %Shore hardness wire insulation6.5 Shore DIngredient freeness wire insulation6.5 Shore DIngredient freeness wire insulation16.4 fmcOuter diameter tolerance core insulation16.4 fmcConductor crosssection (wire)22 AWGConductor viewStranded copper wire, bareTravel speed (C-track)5 m $@ 25 ^{\circ}$ CTravel speed (C-track)3 Mio. $@ 25 ^{\circ}$ CCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN Q $\perp$ 15 % @ 100 MHzElectrical resistance line constant wire55 ΩRm @ 20 ^{\circ}CAC withstand voltage (wire - shield)2 kV @ 60 sCapacity line constant (wire - wire)2 kV @ 60 sConstant strasting temperature (track)30 ^{\circ}COperating temperature (track)30 ^		89 Shore A
Outer-diameter (jacket)6.7 mmTolerance outer diameter (jacket)15 %Material inner jacketFRNCColor (inner jacket)naturMaterial inner jacketPEAnount wires4Outer diameter insulation1.4 mmOuter diameter tolerance core insulation1.5 %Shore hardness wire insulation6.5 Shore DIngredient freeness wire insulation6.5 Shore DIngredient freeness wire insulation16.4 fmcOuter diameter tolerance core insulation16.4 fmcConductor crosssection (wire)22 AWGConductor viewStranded copper wire, bareTravel speed (C-track)5 m $@ 25 ^{\circ}$ CTravel speed (C-track)3 Mio. $@ 25 ^{\circ}$ CCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN Q $\perp$ 15 % @ 100 MHzElectrical resistance line constant wire55 ΩRm @ 20 ^{\circ}CAC withstand voltage (wire - shield)2 kV @ 60 sCapacity line constant (wire - wire)2 kV @ 60 sConstant strasting temperature (track)30 ^{\circ}COperating temperature (track)30 ^	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Material inner jacket     FRNC       Color (innor jacket)     natur       Material wire insulation     PE       Amount wires     4       Outer diameter insulation     1.4 mm       Cutre diameter insulation     6 Shore D       Ingredient freeness wire insulation     6 Shore D       Ingredient freeness wire insulation     lead-free, CFC-tree, halogen-free       Amount stands (wire)     7       Diameter of single wires     22 AWG       Conductor crossection (wire)     22 AWG       Material conductor wire     Stranded copper wire, bare       Traversing distance (C-track)     5 m @ 25 °C       Travel speed (C-track)     3,0 m/s @ 25 °C       Travel speed (C-track)     3,0 m/s @ 25 °C       Nominal voltage AC max.     300 V       Current load capacity (standard)     to DIN VDE 028-4       Current load capacity (standard)     to DIN VDE 0298-4		
Color (inner jacket)naturMaterial wire insulationPEAmount wires4Outer diameter insulation1.4 mmOuter diameter insulation5 %Shore hardness wire insulation65 Shore DImpredient freeness wire insulationfead-fee, CFC-fee, halogen-freeAmount strands (wire)7Diameter of single wires22 AWGConductor crossection (wire)22 AWGConductor crossection (wire)5 m ( $22$ STTravel speed (C-track)5 m ( $22$ STTravel speed (C-track)3 Mice ( $22$ S° CTravel speed (C-track)3 Mice ( $22$ S° CNominal voltage AC max.300 VCurrent load capacity min. wire4.8 ACharacteristic impedance100 D1 ± 15 % ( $00$ 100 MHzElectrical resistance line constant (wire - wire)2 kV ( $0$ 60 sAC withstand voltage (wire - wire)2 kV ( $0$ 60 sLoop resistance50000 MC × kmMin. operating temperature (static)40 °CMax. operating temperature (static)40 °CMissing temperature (static)40 °CMissing voltage (wire - sitell)2 kV ( $0$ 60 sLoop resistance50000 MC × kmMin. operating temperature (static)40 °CMis. operating temperature (static)	Tolerance outer diameter (sheath)	±5%
Color (inner jacket)naturMaterial wire insulationPEAmount wires4Outer diameter insulation1.4 mmOuter diameter insulation5 %Shore hardness wire insulation65 Shore DImpredient freeness wire insulationfead-fee, CFC-fee, halogen-freeAmount strands (wire)7Diameter of single wires22 AWGConductor crossection (wire)22 AWGConductor crossection (wire)5 m ( $22$ STTravel speed (C-track)5 m ( $22$ STTravel speed (C-track)3 Mice ( $22$ S° CTravel speed (C-track)3 Mice ( $22$ S° CNominal voltage AC max.300 VCurrent load capacity min. wire4.8 ACharacteristic impedance100 D1 ± 15 % ( $00$ 100 MHzElectrical resistance line constant (wire - wire)2 kV ( $0$ 60 sAC withstand voltage (wire - wire)2 kV ( $0$ 60 sLoop resistance50000 MC × kmMin. operating temperature (static)40 °CMax. operating temperature (static)40 °CMissing temperature (static)40 °CMissing voltage (wire - sitell)2 kV ( $0$ 60 sLoop resistance50000 MC × kmMin. operating temperature (static)40 °CMis. operating temperature (static)	Material inner jacket	FRNC
Material wire insulation     PE       Amount wires     4       Outer diameter tolerance core insulation     ± 5 %       Shore hardness wire insulation     65 Shore D       Ingredient freeness wire insulation     1ed -free, CFC-free, halogen-free       Amount strands (wire)     7       Diameter of single wires     22 AWG       Conductor crosssection (wire)     22 AWG       Material conductor wire     Stranded copper wire, bare       Traversing distance (C-track)     5 m @ 25 °C       Travel speed (C-track)     3 Mio. @ 25 °C       Travel speed (C-track)     3 Mio. @ 25 °C       Nominal voltage AC max.     300 V       Current load capacity (standard)     to DIN VDE 0298-4       Current		natur
Outer diameter insulation1,4 mmOuter diameter lolerance core insulation $\pm$ 5 %Shore hardness wire insulation $65$ Shore DImgredient freeness wire insulationlead-free, CFC-free, halogen-freeAmount strands (wire)7Diameter of single wires22 AWGConductor crosssection (wire)22 AWGMaterial conductor wireStranded copper wire, bareTraversing distance (C-track)5 m @ 25 °CTravel speed (C-track)3 Mio. @ 25 °CTravel speed (C-track)3.3 m's @ 25 °CNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity (istandard)to DIN ± 15 % @ 100 MHzElectrical resistance line constant wire55 G/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sLectrical capacity line constant (wire - wire)2 kV @ 60 sLoop resistance5000 pF/kmPower froquency withstand voltage (wire - shield)2 kV @ 60 sLoop resistance500 MQ × kmMin. operating temperature (static)40 °CMax. operating temperature (static)40 °CMax. operating temperature (static)40 °CMax. operating temperature (static)40 °CMax. operating temperature (static)40 °CCorrent local capacity (static)40 °CCorrent local capacity (static)40 °CCorrent local capacity (static) <t< td=""><td></td><td>PE</td></t<>		PE
Outer diameter tolerance core insulation $\pm$ 5 %Shore hardmess wire insulation66 Shore DIngredient freeness wire insulationlead-free, CFC-free, halogen-freeAmount strands (wire)7Diameter of single wires22 AWGConductor crossesction (wire)22 AWGMaterial conductor wireStranded copper wire, bareTraversing distance (C-track)5 m @ 25 °CTravel speed (C-track)3 Mio. @ 25 °CTravel speed (C-track)3,3 m/s @ 25 °CTravel speed (C-track)3,3 m/s @ 25 °CTravel speed (C-track)3,3 m/s @ 25 °CCurrent load capacity (standard)to DIN VDE 0288.4Current load capacity (standard)to DIN VDE 0288.4Characteristic impedance100 $\Omega \pm$ 15 % @ 100 MHzElectrical resistance line constant wire55 0Jkm @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sElectrical capacity (inter - wire)2 kV @ 60 sLoop resistance50000 PF.kmPower frequency withstand voltage (wire - shield)2 kV @ 60 sLoop resistance5000 MQ × kmMin. operating temperature (inter (wire)30 °COperating temperature (inter (wire)70 °CFlame resistanceGood, application-related testingGasoline resistanceGood, application-related testingOrlarent resistanceGood, application-related testingOl resistanceGood, application-related testingDial core distanceGood, application-related testingDial core distanceGood, application-related tes	Amount wires	4
Shore hardness wire insulation65 Shore DIngredient freeness wire insulationlead-free, CFC-free, halogen-freeAmount strands (wire)7Diameter of single wires22 AWGConductor crosssection (wire)22 AWGConductor crosssection (wire)22 AWGTraversing distance (C-track)5 m @ 25 °CTravel speed (C-track)3 Min. @ 25 °CTravel speed (C-track)3.3 mis @ 25 °CTravel speed (C-track)3.3 mis @ 25 °CCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4.8 ACharacteristic impedance100 $\Omega \pm 15 \%$ @ 100 MHzElectrical resistance line constant wire55 $\Omega/km$ @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sLectrical capacity inine constant wire50000 pF/kmPower frequency withstand voltage (wire - shield)2 kV @ 60 sLoop resistance5000 M $\Omega \times km$ Min. operating temperature (static)-40 °CMax. operating temperature (static)70 °CFlame resistanceIEC 6032-22 LU LIS81 § 1100 FT2Chernel resistanceGood, application-related testingGasoline resistanceGood, application-related testingGasoline resistanceGood, application-related testingBending radius (fixed)5 x Outer diameterNo. d torsion cycles1 No. 25 °C	Outer diameter insulation	1,4 mm
Shore hardness wire insulation65 Shore DIngredient freeness wire insulationlead-free, CFC-free, halogen-freeAmount strands (wire)7Diameter of single wires22 AWGConductor crosssection (wire)22 AWGConductor vireStranded copper wire, bareTraversing distance (C-track)5 m @ 25 °CTravel speed (C-track)3 Min. @ 25 °CTravel speed (C-track)3,3 mis @ 25 °CTravel speed (C-track)3,3 mis @ 25 °CCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity (min. wire4,8 ACharacteristic impedance100 $\Omega \pm 15 \%$ @ 100 MHzElectrical arealistance line constant wire55 $\Omega km @ 20 °C$ AC withstand voltage (wire - wire)2 kV @ 60 sLeopreting upperature (static)2 kV @ 60 sLoop resistance50000 pF/kmPower frequency withstand voltage (wire - shield)2 kV @ 60 sLoop resistance5000 M $\Omega \times km$ Min. operating temperature (static)-40 °CMax. operating temperature (static)-30 °COperating temperature (static)-30 °COperating temperature (static)70 °CFlame resistanceGc 603 application-related testingGasoline resistanceGood, application-related testingGasoline resistanceGood, application-related testingDin Lin Ko8811-404 [Good, application-related testingS × Outer diameterBending radius (fixed)5 × Outer diameter	Outer diameter tolerance core insulation	±5%
Amount strands (wire)7Diameter of single wires22 AWGConductor crosssection (wire)22 AWGMaterial conductor wireStranded copper wire, bareTraversing distance (C-track)5 m @ 25 °CTravel speed (C-track)3 Mio. @ 25 °CTravel speed (C-track)3,3 m's @ 25 °CTravel speed (C-track)3,3 m's @ 25 °CCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)2 kV @ 60 sElectrical capacity line constant (wire - wire)2 kV @ 60 sLoop resistance50000 pF/kmMin. operating temperature (static)-40 °CMax. operating temperature (static)		
Amount strands (wire)7Diameter of single wires22 AWGConductor crosssection (wire)22 AWGMaterial conductor wireStranded copper wire, bareTraversing distance (C-track)5 m @ 25 °CTravel speed (C-track)3 Mio. @ 25 °CTravel speed (C-track)3,3 m's @ 25 °CTravel speed (C-track)3,3 m's @ 25 °CCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0296-4Current load capacity (standard)to DIN VDE 0296-4Current load capacity (standard)2 kV @ 60 sElectrical capacity line constant (wire - wire)2 kV @ 60 sLoop resistance500 MQ × kmMin. operating temperature (static)-40 °CMax. operating temperature (static)-30 °COperating temperature (static)-30	Ingredient freeness wire insulation	lead-free, CFC-free, halogen-free
Diameter of single wires22 AWGConductor crosssection (wire)22 AWGMaterial conductor wireStranded copper wire, bareTraversing distance (C-track)5 m @ 25 °CTravel speed (C-track)3 Mio. @ 25 °CTravel speed (C-track)3,3 m's @ 25 °CNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity (min. wire)4,8 ACharacteristic impedance100 $\Omega \pm 15 \%$ @ 100 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 - jacket)2 kV @ 60 sLoop resistance5000 MO × kmMin. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CMax. operating temperature min. (dynamic)-30 °COperating temperature min. (dynamic)-30 °COperating temperature min. (dynamic)-30 °COperating temperature max. (dynamic)70 °CFlame resistanceGood, application-related testingGasoline resistanceGood, application-related testingGasoline resistanceGood, application-related testingOir resistanceDIN Colt.Bending radius (fixed)5 × Outer diameterBending radius (fixed)5 × Outer diameterBending radius (fixed)5 × Outer diameterBending	Amount strands (wire)	
Material conductor wireStranded copper wire, bareTraversing distance (C-track) $5 \text{ m} @ 25 ^{\circ}\text{C}$ Travel speed (C-track) $3 \text{ Mio. } @ 25 ^{\circ}\text{C}$ Travel speed (C-track) $3 \text{ Mio. } @ 25 ^{\circ}\text{C}$ Nominal voltage AC max. $300 ^{\vee}$ Current load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity (standard) $100 ^{\circ}\text{L} 15 ^{\circ} @ 100 ^{MHz}$ Electrical resistancefile 0.0 $^{\circ}\text{L} 15 ^{\circ} @ 100 ^{MHz}$ Electrical resistance line constant wire $55 ^{Okm} @ 20 ^{\circ}\text{C}$ AC withstand voltage (wire - wire) $2 ^{kV} @ 60 ^{s}$ Electrical capacity line constant (wire - wire) $50000 ^{p/km}$ Power frequency withstand voltage (wire - apacter) $2 ^{kV} @ 60 ^{s}$ Loop resistance $5000 ^{MQ} ^{km}$ Min. operating temperature (static) $40 ^{\circ}\text{C}$ Max. operating temperature (tkeel) $80 ^{\circ}\text{C}$ Operating temperature max. (dynamic) $70 ^{\circ}\text{C}$ Flame resistanceElectoi Co322-2   UL 1581 § 1090   UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceDiol Application-related testingGasoline resistanceDiol Application-related testingOil resistanceDivertidameterBending radius (fixed) $5 ^{\circ}$ Cuter diameterBending radius (fixed) $5 ^{\circ}$ Cuter diameterNo. of torsion cycles1 $^{100} ^{5} ^{\circ} ^{\circ}$		22 AWG
Traversing distance (C-track)5 m @ 25 °CTravel speed (C-track)3 Mio. @ 25 °CTravel speed (C-track)3,3 m/s @ 25 °CNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)100 NV ± 15 % @ 100 MHzElectrical resistance line constant wire55 Ω/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sElectrical capacity line constant (wire - wire)50000 pF/kmPower frequency withstand voltage (wire - jacket)2 kV @ 60 sLoop resistance5000 MQ × kmMin. operating temperature (fixed)2 kV @ 60 sLoop resistance5000 MQ × kmMin. operating temperature (fixed)80 °COperating temperature (fixed)80 °COperating temperature min. (dynamic)70 °CFlame resistanceGood, application-related testingGasoline resistanceGood, application-related testingGasoline resistanceDNL NE 08811-404   Good, application-related testingOperating temperature min. (dynamic)5 x Outer diameterNo. of torsion cycles1 Mio. 25 °C	Conductor crosssection (wire)	22 AWG
Travel speed (C-track) $3 \text{ Mio. @ 25 °C}$ Travel speed (C-track) $3,3 \text{ m/s @ 25 °C}$ Nominal voltage AC max. $300 \text{ V}$ Current load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire $4,8 \text{ A}$ Characteristic impedance $100 \Omega \pm 15 \% @ 100 \text{ MHz}$ Electrical resistance line constant wire $55 \Omega/\text{km} @ 20 °C$ AC withstand voltage (wire - wire) $2 \text{ kV } @ 60 \text{ s}$ Electrical capacity line constant (wire - wire) $2 \text{ kV } @ 60 \text{ s}$ Ac withstand voltage (wire - iacket) $2 \text{ kV } @ 60 \text{ s}$ Ac withstand voltage (wire - shield) $2 \text{ kV } @ 60 \text{ s}$ Loop resistance $50000 \text{ M} \times \text{km}$ Min. operating temperature (static) $-40 °C$ Max. operating temperature (isted) $80 °C$ Operating temperature (ixed) $80 °C$ Operating temperature (ixed) $30 °C$ Operating temperature min. (dynamic) $-30 °C$ Characteristic max. (dynamic) $70 °C$ Flame resistanceIEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingGasoline resistanceDIN EN 60811-404   Good, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingBending radius (fixed) $5 \times Outer diameter$ No. of torsion cycles1 Mio. 25 °C	Material conductor wire	Stranded copper wire, bare
Travel speed (C-track)3,3 m/s @ 25 °CNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4,8 ACharacteristic impedance100 Ω ± 15 % @ 100 MHzElectrical resistance line constant wire55 Ω/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sElectrical capacity line constant (wire - wire)50000 pF/kmPower frequency withstand voltage (wire - jacket)2 kV @ 60 sLoop resistance5000 MΩ × kmMin. operating temperature (static)-40 °CMax. operating temperature (static)-40 °COperating temperature (ixed)80 °COperating 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 testingGasoline resistanceDIN EN 60811-404   Good, application-related testingBending radius (fixed)5 × Outer diameterNo. of torsion cycles1 Mio. 25 °C	Traversing distance (C-track)	5 m @ 25 °C
Travel speed (C-track) $3,3 \text{ m/s} @ 25 °C$ Nominal voltage AC max. $300 V$ Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire $4,8 A$ Characteristic impedance $100 \Omega \pm 15 \% @ 100 \text{ MHz}$ Electrical resistance line constant wire $55 \Omega \text{ Arm} @ 20 °C$ 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) $2 \text{ kV} @ 60 \text{ s}$ Loop resistance $5000 \text{ MQ x km}$ Min. operating temperature (static) $-40 °C$ Max. operating temperature (static) $-40 °C$ Operating temperature (ixed) $80 °C$ Operating temperature max. (dynamic) $-30 °C$ Operating temperature max. (dynamic) $70 °C$ Flame resistanceIEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceDIN EN 60811-404   Good, application-related testingGasoline resistanceDIN EN 60811-404   Good, application-related testingBending radius (fixed) $5 \times \text{Outer diameter}$ Bending radius (fixed) $5 \times \text{Outer diameter}$	Travel speed (C-track)	3 Mio. @ 25 °C
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 $\Omega/km \oplus 20 \ ^{\circ}C$ AC 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 sLoop resistance5000 M $\Omega \times km$ Min. operating temperature (static)-40 $\ ^{\circ}C$ Max. operating temperature (static)-40 $\ ^{\circ}C$ Max. operating temperature (ixed)80 $\ ^{\circ}C$ Operating temperature min. (dynamic)-30 $\ ^{\circ}C$ Operating temperature max. (dynamic)70 $\ ^{\circ}C$ Flame resistanceEC 60322-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceDIN EN 60811-404   Good, application-related testingBending radius (fixed)5 x Cuter diameterBending radius (dynamic)12 x Outer diameterNo. of torsion cycles1 Mio. 25 $\ ^{\circ}C$		-
Current load capacity min. wire4,8 ACharacteristic impedance100 $\Omega \pm 15 \% @ 100$ 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) $2 kV @ 60 s$ Loop resistance $5000 M\Omega \times km$ Min. operating temperature (static) $-40 °C$ Max. operating temperature (fixed) $80 °C$ Operating temperature min. (dynamic) $-30 °C$ Coperating temperature max. (dynamic) $70 °C$ Flame resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingBending radius (fixed) $5 x Outer diameter$ No. of torsion cycles $1 Mio. 25 °C$		300 V
Current load capacity min. wire4,8 ACharacteristic impedance100 $\Omega \pm 15 \% @ 100$ 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) $2 kV @ 60 s$ Loop resistance $5000 M\Omega \times km$ Min. operating temperature (static) $-40 °C$ Max. operating temperature (fixed) $80 °C$ Operating temperature min. (dynamic) $-30 °C$ Coperating temperature max. (dynamic) $70 °C$ Flame resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingBending radius (fixed) $5 x Outer diameter$ No. of torsion cycles $1 Mio. 25 °C$	Current load capacity (standard)	to DIN VDE 0298-4
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     Loop resistance   5000 MΩ × km     Min. operating temperature (static)   -40 °C     Max. operating temperature (fixed)   80 °C     Operating temperature min. (dynamic)   -30 °C     Operating temperature max. (dynamic)   70 °C     Flame resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Oil 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     Bending radius (dynamic)   12 x Outer diameter     No. of torsion cycles   1 Mio. 25 °C		
AC withstand voltage (wire - wire)2 kV @ 60 sElectrical capacity line constant (wire - wire)50000 pF/kmPower frequency withstand voltage (wire - jacket)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sLoop resistance5000 MΩ × kmMin. operating temperature (static)-40 °CMax. operating temperature (ixed)80 °COperating temperature (min. (dynamic))-30 °COperating temperature max. (dynamic)70 °CFlame 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 diameterBending radius (dynamic)12 x Outer diameterNo. of torsion cycles1 Mio. 25 °C		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     Loop resistance   5000 MΩ × km     Min. operating temperature (static)   -40 °C     Max. operating temperature (fixed)   80 °C     Operating temperature min. (dynamic)   -30 °C     Operating temperature max. (dynamic)   70 °C     Flame resistance   IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2     chemical resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Oil resistance   DIN EN 60811-404   Good, application-related testing     Bending radius (fixed)   5 x Outer diameter     Bending radius (dynamic)   12 x Outer diameter     No. of torsion cycles   1 Mio. 25 °C	Electrical resistance line constant wire	55 Ω/km @ 20 °C
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 sLoop resistance5000 MΩ × kmMin. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °COperating temperature min. (dynamic)-30 °COperating temperature max. (dynamic)70 °CFlame resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)12 x Outer diameterNo. of torsion cycles1 Mio. 25 °C	AC withstand voltage (wire - wire)	2 kV @ 60 s
Power frequency withstand voltage (wire - jacket)   2 kV @ 60 s     AC withstand voltage (wire - shield)   2 kV @ 60 s     Loop resistance   5000 MΩ × km     Min. operating temperature (static)   -40 °C     Max. operating temperature (fixed)   80 °C     Operating temperature min. (dynamic)   -30 °C     Operating temperature max. (dynamic)   70 °C     Flame resistance   IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2     chemical resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Oil resistance   DIN EN 60811-404   Good, application-related testing     Bending radius (fixed)   5 x Outer diameter     Bending radius (dynamic)   12 x Outer diameter     No. of torsion cycles   1 Mio. 25 °C		50000 pF/km
Loop resistance   5000 MΩ × km     Min. operating temperature (static)   -40 °C     Max. operating temperature (fixed)   80 °C     Operating temperature min. (dynamic)   -30 °C     Operating temperature max. (dynamic)   70 °C     Flame resistance   IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2     chemical resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Oil resistance   DIN EN 60811-404   Good, application-related testing     Bending radius (fixed)   5 x Outer diameter     Bending radius (dynamic)   12 x Outer diameter     No. of torsion cycles   1 Mio. 25 °C	Power frequency withstand voltage (wire -	2 kV @ 60 s
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 testingOil resistanceDIN EN 60811-404   Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)12 x Outer diameterNo. of torsion cycles1 Mio. 25 °C	AC withstand voltage (wire - shield)	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   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	Loop resistance	5000 MΩ × km
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	Min. operating temperature (static)	-40 °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	Max. operating temperature (fixed)	80 °C
Flame resistance   IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2     chemical resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Oil resistance   DIN EN 60811-404   Good, application-related testing     Bending radius (fixed)   5 x Outer diameter     Bending radius (dynamic)   12 x Outer diameter     No. of torsion cycles   1 Mio. 25 °C	Operating temperature min. (dynamic)	-30 °C
chemical resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Oil resistance   DIN EN 60811-404   Good, application-related testing     Bending radius (fixed)   5 x Outer diameter     Bending radius (dynamic)   12 x Outer diameter     No. of torsion cycles   1 Mio. 25 °C	Operating temperature max. (dynamic)	70 °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	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 torsion cycles 1 Mio. 25 °C	chemical resistance	Good, application-related testing
Bending radius (fixed) 5 x Outer diameter   Bending radius (dynamic) 12 x Outer diameter   No. of torsion cycles 1 Mio. 25 °C	Gasoline resistance	Good, application-related testing
Bending radius (dynamic) 12 x Outer diameter   No. of torsion cycles 1 Mio. 25 °C	Oil resistance	DIN EN 60811-404   Good, application-related testing
No. of torsion cycles 1 Mio. 25 °C	Bending radius (fixed)	5 x Outer diameter
	Bending radius (dynamic)	12 x Outer diameter
Torsion stress ± 180 °/m	No. of torsion cycles	1 Mio. 25 °C
	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: 2024-05-18

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