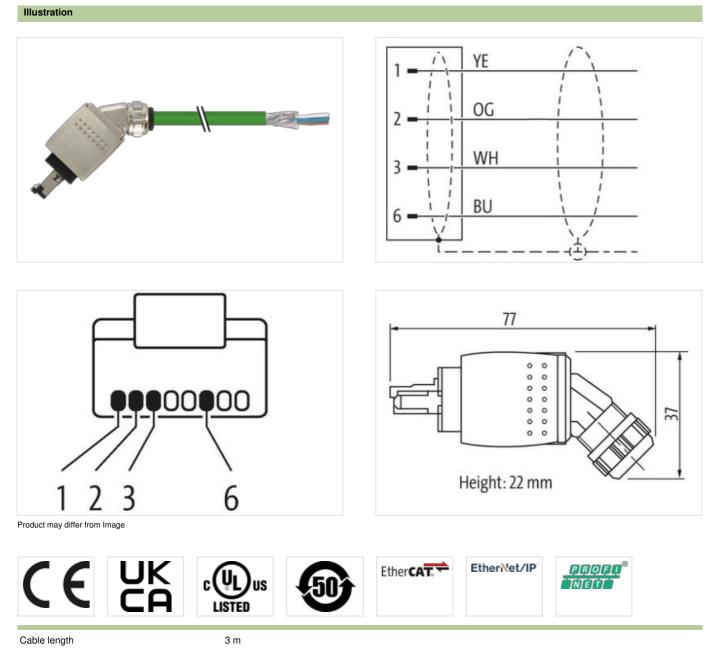


## RJ45 Push Pull male 45° with cable AIDA

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

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

## Link to Product



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: 2024-06-23

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## Side 1

Side I	
Family construction form	RJ45
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
TIM-5.0	EC002599
customs tariff number	85444210
GTIN	4048879375016
Packaging unit	1
Electrical data   Supply	
Dperating voltage DC max.	60 V
Dperating voltage DC max. (UL-listed)	30 V
Current operating per contact max.	1,76 A
Industrial communication	
ransfer parameters	CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)
Data transmission rate max.	100 MBit/s
Industrial communication   Ethernet fun	ctionality
uplex	Full duplex
Device protection   Electrical	
Degree of protection (EN IEC 60529)	IP65, IP67
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	1 kV
Material group (IEC 60664-1)	I
Mechanical data	
Contour for corrugated hose	without
Mechanical data   Material data	
·	N Falsalad
Coating locking .ocking material	
5	Zinc die-casting
Mechanical data   Mounting data	
ooking techniques	Push Pull
Environmental characteristics   Climatic	
Dperating temperature min.	-25 °C
Operating temperature max.	85 °C
additional condition temperature range	depending on cable quality
Important installation notes	
-	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
lote on bending radius	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be
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.
Note on bending radius Installation   Cable vire arrangement	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. white, yellow, blue, orange
Note on strain relief Note on bending radius Installation   Cable wire arrangement Cable identification Jacket Color	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.

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Stranding         4 wires around Core Itter twested           Cabbie shelding (typo)         copper braid, linned           Cabbie shelding (typo)         copper braid, linned           Banding         Fleer, Foll           Filter         yes           wire arrangement         with, yellow, blue, orange           Cabbie helding (typo)         69.3 g/m           Material gabet         PUB           Shore hardness jacket         89 Shore A           Freedom train ingredients (jacket)         67.6 m           Caber (comp (typic))         15.5 %           Material inter (scleat)         6.7 mm           Caber (comp (typic))         Attur           Material inter insulation         1.4 mm           Cater dimmeter insulation         1.4 mm           Cater dimmeter insulation         1.4 mm           Care dimmeter insulation         1.4 mm	Amount stranding	1
Cable stelding (coverage)         85 %           Banding         Piecoe, Foll           Filer         ys6           wire armagement         white, yellow, blue, orange           Cable weigh         69,3 g/m           Material packet         PUR           Shore hardness jacket         88 Shore A           Freedom from ingradients (jacket)         6,7 mm           Outer diameter (jacket)         6,7 mm           Color (inner jacket)         r,8 %           Aderial wire installion         FE           Amount wires         4           Outer diameter (intent)         6,5 %           Outer diameter installion         1,4 mm           Constructor resolution         1,4 mm           Outer diameter installion         1,5 %           Sone hardness ave insulation	Stranding	4 wires around Core filler twisted
Banding         Flee           Filer         yee           wie arrangemet         white, yelow, blue, orange           Cable weigh         69.3 g/m           Material jackut         PUR           Shore hardness jacket         89 Shore A           Freedom from ingredents (jackut)         Isa-free, cadmium-free, CPC-free, halogen-free           Outer diameter (jackut)         1sa-free, cadmium-free, CPC-free, halogen-free           Outer diameter (jackut)         natur           Material jackut         FFINC           Color (inner jackut)         natur           Material inscriptions         PE           Anount wies         4           Outer diameter (isensch)         1.4 mm           Outer diameter folerance core insultation         1.5 %           Shore hardness wire insultation         1.5 %           Material wei insultation         1.6 %           Shore hardness wire insultation         1.6 mm           Outer diameter folerance core insultation         1.6 mm           Outer diameter folerance core insultation         1.6 %           Shore D         Freedom wire bare           Conductor crosssection (wire)         22 AWG           Conductor wire bare         Shore D           Meental conductor wi	Cable shielding (type)	copper braid, tinned
File         yea           wire arrangement         write, yellow, blue, orange           Cable weigh         69.3 g/m           Material palvat         PUR           Store hardness jacket         69.5 brox A           Freedom from ingredients (jacket)         6.7 mm           Outer-diameter (jacket)         6.7 mm           Tolerance.outer diameter (backt)         1.8 5 %           Material innor jacket)         FRNC           Color (innor jacket)         natur           Material wite insulation         PE           Amount wites         4           Outer diameter insulation         1.4 mm           Outer diameter insulation         1.5 %           Store bardness were insulation         1.6 S brore D           Store bardness were insulation         1.6 S brore D           Color diameter insulation         1.6 %           Diameter of single wires         2.2 AWG           Conductor crossescent (wire)         7           Diameter of single wires         2.0 V/G           Current toad capacity (standard)         to DIN VDE 0286.4           Current toad capacity (windward)         to DIN VDE 0286.4           Current toad capacity (windward)         1.0 U.1 15 % 0.100 MHz           Electricat capacity (w	Cable shielding (coverage)	85 %
File         yea           wire arrangement         write, yellow, blue, orange           Cable weigh         69.3 g/m           Material palvat         PUR           Store hardness jacket         69.5 brox A           Freedom from ingredients (jacket)         6.7 mm           Outer-diameter (jacket)         6.7 mm           Tolerance.outer diameter (backt)         1.8 5 %           Material innor jacket)         FRNC           Color (innor jacket)         natur           Material wite insulation         PE           Amount wites         4           Outer diameter insulation         1.4 mm           Outer diameter insulation         1.5 %           Store bardness were insulation         1.6 S brore D           Store bardness were insulation         1.6 S brore D           Color diameter insulation         1.6 %           Diameter of single wires         2.2 AWG           Conductor crossescent (wire)         7           Diameter of single wires         2.0 V/G           Current toad capacity (standard)         to DIN VDE 0286.4           Current toad capacity (windward)         to DIN VDE 0286.4           Current toad capacity (windward)         1.0 U.1 15 % 0.100 MHz           Electricat capacity (w	Banding	Fleece, Foil
wite arrangement     while yellow, blue, orange       Cable wight     69.3 g/m       Matrial jacket     PUR       Shore hundross jacket     89 Shore A       Freedom tom ingedients (jacket)     lead-thee, cadmun-free, CPC-free, halogen-free, silicone-free       Outer diamoter (jacket)     6,7 mm       Talerance outer diameter (health)     1.5 %       Material Invirg (jacket)     natur       Material Invirg (jacket)     natur       Material wire insulation     PE       Amount wires     4       Outer diameter insulation     1.4 mm       Outer diameter insulation     1.5 %       Shore hundress wire insulation     65 Shore D       Ingredient freeness wire insulation     65 Shore D       Ingredient freeness wire insulation     1.4 mm       Conduct aroms conson insulation     2.8 AWG       Contract or single wires     2.8 AWG       Contract or single wires     2.8 AWG       Current load capacity (standard)     to DIN VDE 208-4       Current load c		
Cable weight         69.3 g/m           Material jacket         PUR           Shore hardness jackat         89 Shore A           Freedom from ingredients (gacket)         6.7 mm           Outer-diameter (gacket)         6.7 mm           Tolerance outer dameter (sheath)         1.5 %           Material inner jacket         FRNC           Color (mor jacket)         natur           Material inner jacket         FRNC           Color (mor jacket)         natur           Material wire insulation         PE           Arnount wires         4           Outer diameter insulation         1.4 mm           Outer diameter insulation         1.5 Shore D           Ingredient Hearess wire insulation         65 Shore D           Ingredient Hearess wire insulation         1.6 Shore D           Conductor crosssaction (wire)         22 AWG           Conductor crosssaction (wire)         22 AWG           Conductor wire         Stranded coper wire, bare           Nominal voltage AC max.         300 V           Current load capacity (standerd)         to D IN VDE 0284-4           Current load capacity (medice)         100 Q 1 ± 15 % 0 100 MHz           Electrical capacity line constant wire         55 D/Lm @ 20 C <td< td=""><td>wire arrangement</td><td>-</td></td<>	wire arrangement	-
Naterial jacket         PUR           Shore hardness jacket         89 Shore A           Freedom from ingredients (jacket)         6.7 mm           Tolerance outer diameter (jacket)         5.5 %           Matarial inerg jacket         FIRNC           Color (merg jacket)         natur           Matarial inerg jacket         FIRNC           Color (merg jacket)         natur           Matarial inerg jacket         FIRNC           Color diameter insulation         9E           Amount wires         4           Outer diameter insulation         1.4 mm           Outer diameter insulation         6S Shore D           Ingredient freeness wire insulation         6S Shore D           Ingredient freeness wire insulation         12 X/WG           Conduct crosssection (wire)         22 AWG           Conductor crosssection (wire)         22 AWG           Current load capacity min. wire         58 Outer 0.0 MAtz           Current load capacity min. wire         50 Out 0.2 1 5% (0 10 MHz           Current load capacity min. wire         50 Out 0.2 1 5% (0 10 MHz           Carbor distance         100 DL 1 5% (0 0 S           Carbor distance wire shield         24 W@ 60 s           Carbor distancovotage (wire - wire)         24 W@ 60 s	-	
Freedom from ingredients (jacket)         lead-free, cadmium-free, CPC-free, halogen-free           Outer-diameter (jacket)         6,7 mm           Orderace-outer (diameter (sheath)         5 %           Material inner jacket         FRNC           Color (mer) jacket)         natur           Material winer insulation         PE           Amount wireis         4           Outer diameter (insulation         1.4 mm           Outer diameter insulation         1.5 %           Shore hardness wire insulation         65 Shore D           Ingredient freeness wire insulation         lead-free, CPC-free, halogen-free           Amount strands (wife)         7           Dameter of single wires         22 AWG           Conductor wires         Stranded copper wire, bare           Nominal voltage AC max.         300 V           Current load capacity (win, wire)         4.8 A           Characteristic impedance         100 D1 ± 15 % (010 MHz           Electrical resistance line constant (wire wire)         5000 P.F.m           Power frequency withstand voltage (wire - wire)         24 VW @ 60 s           Electrical capacity inte constant (wire - wire)         24 VW @ 60 s           Electrical capacity withstand voltage (wire - wire)         24 VW @ 60 s           Corrent load capacit		-
Freedom from ingredients (jacket)       lead free, cadmium free, CFC-free, halogen-free         Duter-diameter (jacket)       6.7 mm         Toterance uitre diameter (jacket)       natur         Matorial inner jacket       FRNC         Color (market)       natur         Matorial wine insulation       PE         Amount wires       4         Outer diameter insulation       1.4 mm         Outer diameter insulation       65 Shore D         Ingredient freeness wire insulation       65 Shore D         Amount strands (wire)       7         Diameter of single wires       22 AWG         Conductor crosssection (wire)       22 AWG         Conductor wire       Stranded copper wire, bare         Nominal voltage AC max.       300 V         Current load capacity (standard)       to DIN VDE 0298-44         Curent load capacity (standard) <td< td=""><td>Shore hardness jacket</td><td>89 Shore A</td></td<>	Shore hardness jacket	89 Shore A
Outer diameter (jacket)6,7 mmTolerance outer diameter (jacket)15 %Material iner jacketFINCColor (inner jacket)naturMaterial iner jacketPEAnount wise4Outer diameter insulation1,4 mmOuter diameter insulation15 %Shore hardness wire insulation15 %Dore hardness wire insulation15 %Diameter diameter tolerance core insulation16 Shore DIngredient freeness wire insulation16 Shore DIngredient freeness wire insulation1ead-free, CFC-free, halogen-freeAmount strands (wire)7Diameter d'ingre wires22 AWGConductor crosssection (wire)22 AWGConductor viresStranded coper wire, bareNomal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 6298-4Current load capacity (standard)to DIN VDE 6298-4Current load capacity (inter orestant wire)55 Ω/m @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sElectrical resistance line constant wire55 Ω/m @ 20 °CAC withstand voltage (wire - shield)2 kV @ 60 sIsolation resistance5000 MΩ < km		lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Tolerance outer diameter (sheath)     ± 5 %       Material wire insulation     FNNC       Color (Inter jacket)     natur       Material wire insulation     PE       Amount wires     4       Outer diameter tolerance core insulation     ± 5 %       Shore hardness wire insulation     55 % Fore D       Ingredient freeness wire insulation     65 Shore D       Ingredient freeness wire insulation     65 Shore D       Ingredient freeness wire insulation     63 Shore D       Ingredient freeness wire insulation     64 Shore D       Conductor consess wire insulation     64 Shore D       Conductor consess wire insulation     12 A WG       Conductor consession (wire)     22 AWG       Conductor vicesscient (wire)     22 AWG       Conductor consection (wire)     22 AWG       Conductor consection (wire)     300 V       Current load capacity (standard)     to DN VDE 0298-4       Current load capacity (standard)     to DN VDE 0298-4       Current load capacity (standard)     to DN VDE 0298-4       Characteristic impedance     100 Ω ± 15 % @ 100 MHz       Electrical resistance line constant wire     50 D M @ 20 °C       AC withstand voltage (wire - sholege (wire - gaket)     24 W @ 60 s       Social capacity line constant (wire - wire)     24 W @ 60 s       Social capacity line const		-
Material inner jacket         FRNC           Color (inner jacket)         natur           Material wire isulation         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         1e3 %           Material wire insulation         1e3 %           Diameter of single wires         22 AWG           Conductor crosssection (wire)         22 AWG           Material conductor wire         Stranded copper wire, bare           Nominal voltage AG max.         300 V           Current load capacity (standard)         to DIN VDE Co298-4           Current load capacity (standard)         to DIN VDE Co298-4           Current load capacity (standard)         to DIN VDE Co298-4           Current load capacity (win. wire         4.8 A           Characteristic inpedance         100 0 ± 15 % @ 100 MHz           Electrical resistance line constant wire         55 DAtm @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Electrical capacity line constant (wire - wire)         2 kV @ 60 s           Isolation resistance         5000 M2 × km		
Color (inner jacket)naturMaterial wire insulationPEAmount wires4Outer diameter insulation1,4 mmOuter diameter insulation5 %Shore hardness wire insulation65 Shore DImgredient freeness wire insulationfead-free, CFC-free, halogen-freeAmount strands (wire)7Diameter of single wires22 AWGConductor crossescion (wire)22 AWGCurrent load capacity trim. wire4.8 ACurrent load capacity trim. wire4.8 ACharacteristic impedance100 Q± 15 % @ 100 MHzElectrical capacity trim. wire2 kV @ 60 sElectrical capacity line constant (wire - wire)2 kV @ 60 sStolator resistance500 MA v kmMin. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CCharacter color c		
Material wire insulationPEAmount wires4Outer diameter tolerance core insulation1.4 mmOuter diameter tolerance core insulation55 Shore DIngredient freemess wire insulation65 Shore DIngredient freemess wire insulation65 Shore DIngredient freemess wire insulation62 Shore DConductor crosssection (wire)22 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)100 Cl ± 15 % @ 100 MHzElectrical resistance100 Cl ± 15 % @ 100 MHzElectrical resistance line constant (wire - wire)2 kV @ 60 sElectrical capacity line constant (wire - wire)2 kV @ 60 sSoudage (wire - wire)2 kV @ 60 sIsolation resistance50000 DF/kmPower frequency withstand voltage (wire - alkel)2 kV @ 60 sIsolation resistance50000 MQ × kmMin. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CCoperating temperature (static)-40 °CCharriestanceGood, application-related testingColl resistanceGood, application-related testingCore Coperation generature max. (dynamic)-70 °CFlame resistanceGood, application-related testingCore Coperation generature max. (dynamic)70 °CFlame resist		
Amount wires4Outer diameter tolerance core insulation1.4 mmOuter diameter tolerance core insulation $\pm$ 5 %Shore hardness wire insulationlead-free, CFC-free, halogen-freeAmount strands (wire)7Diameter of single wires22 AWGConductor crosssection (wire)22 AWGConductor crosssection (wire)22 AWGConductor vireStranded copper wire, bareNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (wire - wire) $5 \Omega Jkm @ 20 °C$ AC withstand voltage (wire - wire) $2 kV @ 60 s$ Electrical resistance line constant wire $5 S Dkm @ 20 °C$ AC withstand voltage (wire - wire) $2 kV @ 60 s$ Stoolo MQ x kmMin.Min. operating temperature (static) $40 °C$ Operating temperature (static) $40 °C$ Operating temperature (static) $40 °C$ Operating temperature (static) $30 °C$ Operating temperature (static) $70 °C$ Flame resistanceGood, application-related testingGasoline resistanceGood, application-related testingGasoline resistanceGood, application-related testingGasoline resistanceGood, application-related testingGasoline resistanceGood, application-related testingBending radius (stivad)		
Outer diameter Insulation         1.4 mm           Outer diameter Iolerance core insulation         ± 5 %           Shore hardness wire insulation         65 Shore D           Imgredient Theseness wire insulation         lead-free, CFC-free, halogen-free           Armount 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           Carrent load capacity (standard)         to DIN ± 5 % @ 100 MHz           Electrical resistance line constant wire         5.5 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Isolation resistance         50000 MC × km           Min. operating temperature (stalic)         -40 °C           Max. operating temperature (stalic)         <		
Outer diameter tolerance core insulation $\pm$ 5 %Shore hardness wire insulation65 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 sElectrical resistance100 0 1 15 % @ 100 MHzElectrical resistance line constant wire55 Ω/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sElectrical capacity (strandard)2 kV @ 60 sStolation resistance50000 pF/kmPower frequency withstand voltage (wire - shield)2 kV @ 60 sIsolation resistance50000 MΩ × kmMin. operating temperature (fixed)80 °COperating temperature (fixed)30 °COperating temperature (fixed)30 °COperating temperature max. (dynamic)70 °CFlamer esistanceGeod, application-related testingGazoline resistanceGood, application-related testingGazoline resistanceGood, application-related testingGazoline resistanceGood, application-related testingGazoline resistanceGood, application-related testingGazoline (fixed)5 x Outer diameterBending radius (fixed)5 x Outer diameter <tr<< td=""><td></td><td>· · · · · · · · · · · · · · · · · · ·</td></tr<<>		· · · · · · · · · · · · · · · · · · ·
Shore hardness wire insulation       65 Shore D         Ingredient freeness wire insulation       lead-free, CFC-free, halogen-free         Amount strands (wire)       7         Diameter of single wires       22 AWG         Conductor crosssection (wire)       22 AWG         Material conductor wire       Stranded copper wire, bare         Nominal voltage AC max.       300 V         Current tool capacity (standard)       to DIN VDE 0298-4         Current tool capacity (standard)       to DIN VDE 0298-4         Current tool capacity (standard)       100 0.1 15 % @ 100 MHz         Electrical resistance line constant (wire - wire)       2 KV @ 60 s         Electrical capacity line constant (wire - wire)       5000 pF/km         Power frequency withstand voltage (wire - shield)       2 KV @ 60 s         Isolation resistance       5000 MC × km         Min. operating temperature (static)       -40 °C         Max operating temperature (static)       -30 °C         Operating temperature max. (dynamic)       -30 °C         Operating temperature max. (dynamic)       -30 °C         Operating temperature (static)       -40 °C         Max operating temperature (static)       -40 °C         Gasoline resistance       Good, application-related testing         Gasoline resistanc		·
Ingredient 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 (standard)00 $\Omega \pm 15\%$ @ 100 MHzElectrical resistancefb0 $\Omega \pm 15\%$ @ 100 MHzElectrical resistance line constant wire55 $\Omega$ km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sElectrical capacity line constant (wire - wire)2 kV @ 60 sStolaton resistance50000 MC × kmMin. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CMax. operating temperature min. (dynamic)-30 °COperating temperature min. (dynamic)70 °CFlame resistanceGood, application-related testingGasoline resistanceGood, application-related testingBending radius (fixed)5 x Outer diameterBending radius (fixed)5 x Outer diameterBending radius (fixed)5 x Outer diameterBending radius (fixed)5 m Queter S °CTraversing distance		
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 (standard)       to DIA VDE 0298-4         Cartent load capacity (standard)       to DIA VDE 0298-4         Clareateristic 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         Solation resistance       50000 MΩ × km         Min. operating temperature (static)       -40 °C         Max. operating temperature (static)       -40 °C         Max. operating temperature (static)       -30 °C         Operating temperature min. (dynamic)       -30 °C         Operating temperature min. (dynamic)       -30 °C         Charice resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing         Oil resistance       Good, a		
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)5000 DF ± 15 % @ 100 MHzElectrical resistance line constant wire55 Q/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sElectrical capacity (standard)2 kV @ 60 sLectrical capacity (standard)2 kV @ 60 sIsolation resistance5000 MQ × kmMin. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CMax. operating temperature (static)-30 °COperating temperature (static)70 °COperating temperature (static)70 °COperating temperature (static)70 °COperating temperature (static)70 °COperating temperature (static)5 × Outer diameterFlame resistanceGood, application-related testingGasoline resistanceGood, application-related testingGasoline resistanceGood, application-related testingGasoline resistanceDIN EN 6091-404 [Good, application-related testingBending radius (fixed)5 ×		-
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         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         AC withstand voltage (wire - shield)       2 kV @ 60 s         Stoation resistance       50000 MΩ × km         Min. operating temperature (static)       -40 °C         Max. operating temperature (static)       -40 °C         Operating temperature (static)       -40 °C         Max. operating temperature (static)       -40 °C         Operating temperature (static)       -40 °C         Gasoline resistance       50000 MΩ × km         Min. operating temperature (static)       -70 °C         Poterating temperature (static)       -70 °C         Operating temperature (static)       -70 °C         Gasoline resistance       IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2         Chemical resistance       Good		
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)         10 0 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           Isolation resistance         50000 MΩ × km           Min. operating temperature (tixed)         40 °C           Max. operating temperature (tixed)         30 °C           Operating temperature (tixed)         30 °C           Operating temperature min. (dynamic)         70 °C           Flame resistance         Godd, application-related testing           Gasoline resistance         Good, application-related testing           Oil resistance         Good, application-related testing           Oil resistance         DiN EN 60811-404 [Good, application-related testing           Oil resistance         Din K b60811-404 [Good, application-related testing		
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 sSolotton resistance5000 M $\Omega \times km$ Min. operating temperature (static)-40 $\ ^{\circ}C$ Max. operating temperature (fixed)80 $\ ^{\circ}C$ Operating temperature min. (dynamic)-30 $\ ^{\circ}C$ Operating temperature max. (dynamic)70 $\ ^{\circ}C$ Flame resistanceGood, application-related testingGasoline resistanceGood, application-related testingGasoline resistanceGood, application-related testingGasoline resistanceDIN EN 60811-404   Good, application-related testingGasoline resistanceDIN EN 60811-404   Good, application-related testingGasoline resistanceDIN EN 60811-404   Sc $\ ^{\circ}C$ No. of bending cycles (C-track)3 Mic. $\oplus$ 25 $\ ^{\circ}C$ Traversing distance (C-track)5 m $\oplus$ 25 $\ ^{\circ}C$ No. of torsion cycles1 Mic. 25 $\ ^{\circ}C$	. ,	-
Current 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 sIsolation resistance5000 MQ × kmMin. operating temperature (static)-40 $^{\circ}C$ Max. operating temperature (fixed)80 $^{\circ}C$ Operating temperature max. (dynamic)-30 $^{\circ}C$ Operating temperature max. (dynamic)70 $^{\circ}C$ Flame resistanceIEC 60332-2-2   UL 1581 § 1000   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 x Outer diameterNo. of bending cycles (C-track)5 m $\oplus$ 25 $^{\circ}C$ Traversing distance (C-track)5 m $\oplus$ 25 $^{\circ}C$ No. of torsion cycles1 Mio. 25 $^{\circ}C$		
Current 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)50000 pF/kmPower frequency withstand voltage (wire - jacket)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sIsolation resistance5000 MQ × kmMin. operating temperature (static)-40 °CMax. operating temperature (static)-40 °COperating temperature min. (dynamic)-30 °COperating temperature max. (dynamic)70 °CFlame resistanceGood, application-related testingGasoline resistanceGood, application-related testingGasoline resistanceDIN EN 60811-404   Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (fixed)5 x Outer diameterNo. of bending cycles (C-track)3 Mio. @ 25 °CTraversing distance (C-track)5 m@ 25 °CNo. of torsion cycles1 Mio. 25 °C		
Characteristic impedance100 $\Omega \pm 15 \% @ 100 \text{ MHz}$ Electrical resistance line constant wire $55 \ \Omega/\text{km} @ 20 \ ^\circ\text{C}$ AC withstand voltage (wire - wire) $2 \text{ kV} @ 60 \text{ s}$ Electrical capacity line constant (wire - wire) $50000 \text{ pF/km}$ Power frequency withstand voltage (wire - jacket) $2 \text{ kV} @ 60 \text{ s}$ AC withstand voltage (wire - shield) $2 \text{ kV} @ 60 \text{ s}$ Solution resistance $5000 \ M\Omega \times \text{km}$ Min. operating temperature (static) $-40 \ ^\circ\text{C}$ Max. operating temperature (fixed) $80 \ ^\circ\text{C}$ Operating temperature min. (dynamic) $-30 \ ^\circ\text{C}$ Operating temperature max. (dynamic) $70 \ ^\circ\text{C}$ Flame 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) $12 \times \text{Outer diameter}$ Bending radius (dynamic) $12 \times \text{Outer diameter}$ No. of bending cycles (C-track) $5 \ \text{m} @ 25 \ ^\circ\text{C}$ Traversing distance (C-track) $5 \ ^\circ\text{C}$		
Electrical resistance line constant wire       55 Ω/km @ 20 °C         AC withstand voltage (wire - wire)       2 kV @ 60 s         Electrical capacity line constant (wire - wire)       50000 pF/km         Power frequency withstand voltage (wire - jacket)       2 kV @ 60 s         AC withstand voltage (wire - shield)       2 kV @ 60 s         Isolation resistance       5000 MΩ × km         Min. operating temperature (static)       -40 °C         Max. operating temperature (static)       -40 °C         Operating temperature (mixed)       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         Oil resistance       DIN EN 60811-404   Good, application-related testing         Bending radius (fixed)       5 × Outer diameter         No. of bending cycles (C-track)       3 Mio. @ 25 °C         Traversing distance (C-track)       5 m @ 25 °C         No. of torsion cycles       1 Mio. 25 °C <td></td> <td>·</td>		·
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         Isolation 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         Gasoline resistance       DIN EN 60811-404   Good, application-related testing         Oil resistance       DIN EN 60811-404   Good, application-related testing         Bending radius (fixed)       5 x Outer diameter         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. 25 °C	·	-
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         Isolation resistance       5000 MΩ × km         Min. operating temperature (static)       -40 °C         Max. operating temperature (static)       -40 °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         Gasoline resistance       DIN EN 60811-404   Good, application-related testing         Oil resistance       DIN EN 60811-404   Good, application-related testing         Bending radius (fixed)       5 × Outer diameter         No. of bending cycles (C-track)       3 Mio. @ 25 °C         Traversing distance (C-track)       5 m @ 25 °C         No. of torsion cycles       1 Mio. 25 °C		-
Power frequency withstand voltage (wire - jacket)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sIsolation resistance5000 MΩ × kmMin. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °COperating temperature min. (dynamic)-30 °COperating temperature max. (dynamic)70 °CFlame resistanceIEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404   Good, application-related 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. @ 25 °CTravel speed (C-track)5 m @ 25 °CNo. of torsion cycles1 Mio. 25 °C		-
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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. @ 25 °CTraversing distance (C-track)5 m @ 25 °CNo. of torsion cycles1 Mio. 25 °C	Isolation resistance	5000 MΩ × km
Operating 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. @ 25 °CTraversing distance (C-track)5 m @ 25 °CNo. of torsion cycles1 Mio. 25 °C		
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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. @ 25 °CTraversing distance (C-track)5 m @ 25 °CNo. of torsion cycles1 Mio. 25 °C	Operating temperature min. (dynamic)	-30 °C
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Oil 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. @ 25 °CTraversing distance (C-track)5 m @ 25 °CTravel speed (C-track)3,3 m/s @ 25 °CNo. of torsion cycles1 Mio. 25 °C	chemical resistance	Good, application-related testing
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Bending radius (dynamic)12 x Outer diameterNo. of bending cycles (C-track)3 Mio. @ 25 °CTraversing distance (C-track)5 m @ 25 °CTravel speed (C-track)3,3 m/s @ 25 °CNo. of torsion cycles1 Mio. 25 °C	Oil resistance	DIN EN 60811-404   Good, application-related testing
No. of bending cycles (C-track)3 Mio. @ 25 °CTraversing distance (C-track)5 m @ 25 °CTravel speed (C-track)3,3 m/s @ 25 °CNo. of torsion cycles1 Mio. 25 °C	Bending radius (fixed)	5 x Outer diameter
Traversing distance (C-track)5 m @ 25 °CTravel speed (C-track)3,3 m/s @ 25 °CNo. of torsion cycles1 Mio. 25 °C	Bending radius (dynamic)	12 x Outer diameter
Travel speed (C-track)3,3 m/s @ 25 °CNo. of torsion cycles1 Mio. 25 °C		3 Mio. @ 25 °C
No. of torsion cycles 1 Mio. 25 °C	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. 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: 2024-06-23

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