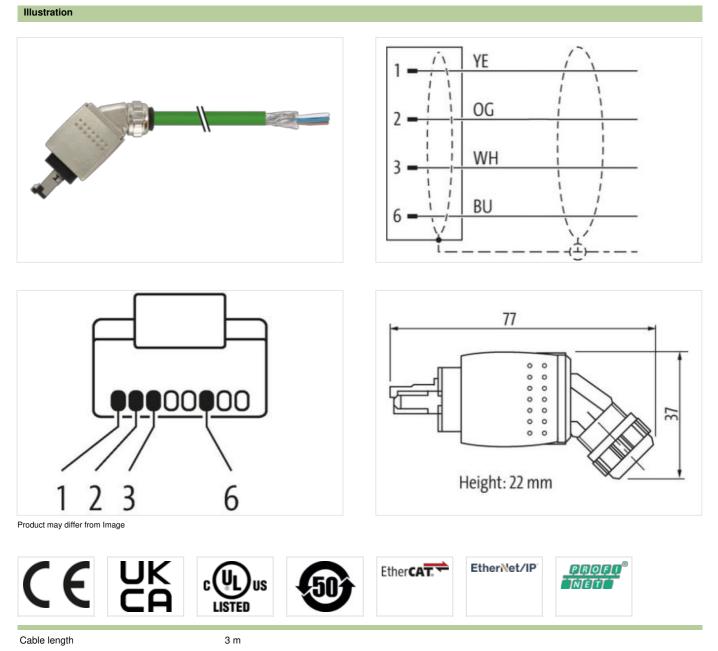


RJ45 Push Pull male 45° with cable AIDA

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 Ω 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 × | | - |
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| 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 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 | | - |
| jacket)2 kV @ 00 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 resistanceDIN EN 60811-404 Good, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (fixed)5 x Outer diameterBending cycles (C-track)3 Mio. @ 25 °CTraversing distance (C-track)5 m @ 25 °CNo. of torsion cycles1 Mio. 25 °C | | |
| Isolation 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 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 | jacket) | |
| Min. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °COperating temperature min. (dynamic)-30 °COperating temperature max. (dynamic)70 °CFlame resistanceIEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)12 x Outer diameterNo. of bending cycles (C-track)5 m @ 25 °CTraversing distance (C-track)3,3 m/s @ 25 °CNo. of torsion cycles1 Mio. 25 °C | AC withstand voltage (wire - shield) | |
| 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 | | |
| Operating temperature max. (dynamic)70 °CFlame resistanceIEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)12 x Outer diameterNo. of bending cycles (C-track)3 Mio. @ 25 °CTraversing distance (C-track)5 m @ 25 °CNo. of torsion cycles1 Mio. 25 °C | Max. operating temperature (fixed) | 80 °C |
| 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 |
| chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)12 x Outer diameterNo. of bending cycles (C-track)3 Mio. @ 25 °CTraversing distance (C-track)5 m @ 25 °CTravel speed (C-track)3,3 m/s @ 25 °CNo. of torsion cycles1 Mio. 25 °C | Operating temperature max. (dynamic) | |
| Gasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)12 x Outer diameterNo. of bending cycles (C-track)3 Mio. @ 25 °CTraversing distance (C-track)5 m @ 25 °CTravel speed (C-track)3,3 m/s @ 25 °CNo. of torsion cycles1 Mio. 25 °C | Flame resistance | IEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2 |
| 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 |
| Bending 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 | Gasoline resistance | |
| 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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