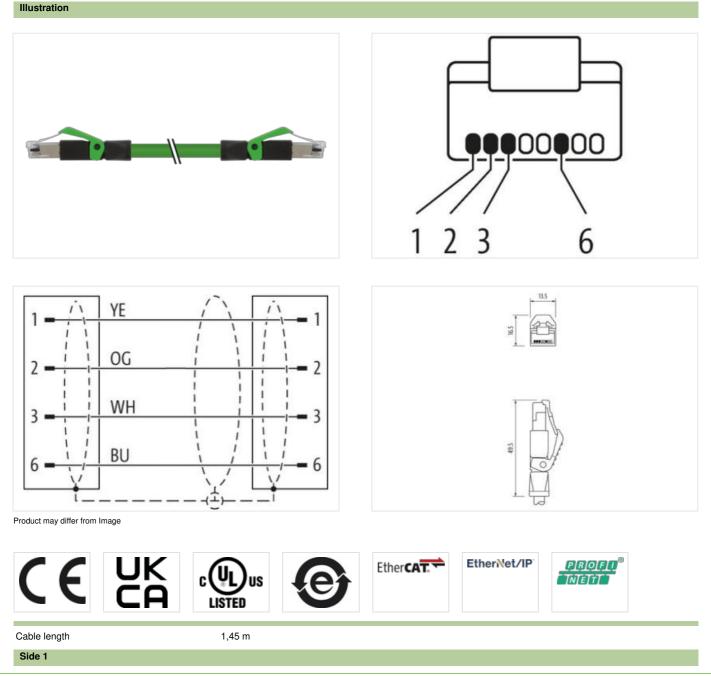


RJ45 male 0° / RJ45 male 0° shielded

PUR 1x4xAWG22 shielded gn UL/CSA+drag ch. 1.45m

Product fulfills requirements according to UN/ECE R118 Ethernet CAT5 Male straight – male straight RJ45 – RJ45, 4-pole shielded Further cable lengths on request. Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request.

Link to Product



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: 2024-05-20



Mounting method	inserted
Family construction form	RJ45
No. of poles	4
Commercial data	
ECLASS-6.0	27061801
ECLASS-6.1	27060307
ECLASS-7.0	27060307
ECLASS-8.0	27060307
ECLASS-9.0	27060307
ECLASS-10.1	27060307
ECLASS-11.1	27060307
ECLASS-12.0	27060307
ETIM-5.0	EC002599
customs tariff number	85444210
GTIN	4048879524513
Packaging unit	1
Electrical data Supply	
Operating voltage DC max.	60 V
Current operating per contact max.	1,5 A
Industrial communication	
	CAT5e, Class D (ISO/IEC 11801:2002), (EN 50173-1)
Transfer parameters Data transmission rate max.	100 MBit/s
Industrial communication Ethernet fur	
duplex	Full duplex
Diagnostics	
Status indication LED	no
Device protection Electrical	
Degree of protection (EN IEC 60529)	IP20
Pollution Degree	3
Rated surge voltage	1 kV
Material group (IEC 60664-1)	
Mechanical data	
	uitheut
Contour for corrugated hose	without
Mechanical data Material data	
Material housing	PUR
Locking material	PA
Mechanical data Mounting data	
Looking techniques	Snap-in connector
Environmental characteristics Climati	c
Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
Important installation notes	
Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Note on bending radius	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Installation Cable	
wire arrangement	white, yellow, blue, orange
Cable identification	796
Jacket Color	green
mation in this Product-PDF has been compiled with	

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Murrelektronik ApS | Alexander Foss Gade 13, 1. | 9000 Aalborg | Fon +45 96 35 06 06 | Fax | shop@murrelektronik.dk | shop.murrelektronik.dk



Amount stranding 1 Amount stranding Awise around Core Niles twated Cable strateding (coverage) B5 % Banding Cable strateding (coverage) B5 % Banding Fleor yes weis around Core Niles twated Cable strateding (coverage) B5 % Banding Fleor yes weis around Core Niles Awise around Core Niles Stope Instance Stope	Type of Certificate	cURus
Cable straining (type)copper braid, linnedCable shielding (coverage)85 %.BandingFlueco. FollFluerYeswire arrangementwilkly syllow, blue, orangeCable wing/h89,3 p/mMatridi jackskPUFStore hardness jacksk89 Shore AFreedom from ingredients (jackel)8,7 mCable wing/h89,3 p/mMatridi jacksk99 Shore AFreedom from ingredients (jackel)8,7 mCable diameter (skale)1,5 %.Matridi jackskFRNCCable diameter (skale)1,5 %.Matridi jackskFRNCCable diameter (skale)1,4 mCable diameter (skale)1,4 mOuter diameter (shale)1,4 mOuter diameter insulation1,4 mOuter diameter insulation1,4 mOuter diameter insulation1,2 %.Shore hardness wire insulation1,8 Shore DIngredient freeses/environ oco insulation1,4 mOuter diameter insulation1,2 %.Diameter of single wires2,2 AWGContactor oco secolisation1,5 %.Caracentolise (wire)1,0 M L 1,5 % P 100 MHzCaracentolise (wire)0,0 L 1,5 % P 100 MHzElectrical capacity (wine wire)2,4 W @ 60 sCaracentolise (wire)0,0 C	Amount stranding	1
Cable Indexing Piece, Foll Banding Piece, Foll Filer yas wire arrangement white, yellow, Due, orange Cable weigh 663, g/m Material jacket PUR Share hardness jacket 89 Shore A Freedom from ingred/enits (jacket) 6, 7 mm Dielerance suiter dimeter (theath) 5, 5 % Material inorg jacket PE Anonit wirks 4 Color (inorg jacket) natur Material wire insulation PE Anount wirks 4 Outer diameter insulation 1,4 mm Outer diameter insulation 1,5 % Diameter diameter insulation 1,4 mm Outer diameter insulation 1,4 mm Outer diameter insulation 1,4 mm Outer diameter insulation 1,4 S % Amount strainds (wire) 7 Diameter dialigner wires 2,5 % Amount strainds (wire) 7 Diameter dialigner wires 2,4 WG Constructor crassascion (wire) 2,4 WG <td>Stranding</td> <td>4 wires around Core filler twisted</td>	Stranding	4 wires around Core filler twisted
BandingPieces. FoilFilleryoswire arrangemetwithe, yelow, blue, orangeCable wight68.3 g/mMaterial jocketPURShore hardness jucket89 Shore AFreedom from ingredents (jacket)89 Shore AFreedom from ingredents (jacket)6.7 mTolerance outer diameter (health)5.5 %Material jone:6.7 mTolerance outer diameter (health)5.5 %Material inergipatedFPNCColor (inner jacket)naturMaterial inergipatedFPNCColor (inner jacket)naturMaterial inergipated5.5 %Shore hardness wire insulation1.4 mOuter diameter insulation1.5 %Shore hardness wire insulation1.6 %Shore hardness wire insulation1.6 %Conduct gramese toxicle (wire)22 AWGConductor crossection (wire)22 AWGMaterial voltage (wire)22 AWGMaterial voltage (soltage)100 DU 15 % (@ 100 MHzCharacteristic inpodence100 Q 1 15 % (@ 100 MHzCharacteristic inpodence100 Q 1 15 % (@ 100 MHzCharacteristic inpodence500 MQ 2 wire)Characteristic inpodence500 MG 2 wire)Power frequency wirestance intergence5000 MQ x kmMin. operating temperature (stat)2 kV @ 00 sElectrical capacity inters.2 kV @ 00 sCharacteristic inpodence500 MG x kmMin. operating temperature (stat)2 kV @ 00 sCharacteristic inpodence500 MG x	Cable shielding (type)	copper braid, tinned
Filter yes wire arrangement white, yellow, blue, orange Cable weight 69.3 g/m Material packet PUR Shore hardness globet 89.5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CPC-free, halogen-free Outer -diameter (jacket) 6.7 mm Orderace outer diameter (sheath) 5.5 % Material wire insulation PE Amount wires 4 Outer diameter insulation 1.4 mm Outer diameter insulation 1.5 % Shore hardness wire insulation 1.5 % Shore hardness wire insulation 1.4 mm Outer diameter insulation 1.4 mm Outer diameter insulation 1.4 mm Outer diameter insulation 1.6 Shore D Impredient frames wire insulation 1.6 Shore D Impredient frames wire insulation 1.6 JM mm Outer diameter insulation 1.4 mm Outer diameter insulation 1.5 % Shore hardness wire insulation 1.6 Shore D Impredient frames wire insulation 1.6 Shore D	Cable shielding (coverage)	85 %
wire arrangement while, yellow, blue, orange Cable weight 63.3 gm Material jacket PUR Shore handness jackat 89 Shore A Freadon fram ingredents (jacket) lead-free, cadmun-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 6.5 mm Tolerance outer diameter (insteht) 1.5 % Material instej (insteht) 1.5 % Color (inner jacket) natur Material instej (insteht) 1.4 % Outer diameter insulation 1.4 mm Outer diameter insulation 1.4 mm Outer diameter insulation 1.6 S % Ingredient freeness wire insulation 1.6 S % Controduce consession 90 V Controduce consession 90 V Controduce consession 90 V Controduce consession 90 V Contred inserver (weight) 10 D VDE 0289.4 Current laad capacity (standard) 10 D	Banding	Fleece, Foil
Cable weight 69.3 g/m Material jacket PUR Share hardnass jacket 89 Shore A Freedom from ingredients (jacket) lead-free, cafmum-free, CPC-free, halogen-free, silicone-free Outer diameter (jacket) 6.7 mm Otar diameter (jacket) 6.7 mm Otar diameter (jacket) natur Material inner jacket FRNC Outer diameter (sheath) ± 5 % Material inner jacket 1,4 mm Outer diameter insulation 1,4 mm Outer diameter insulation 65 Shore D Ingredient freeness wire insulation 1,5 % Shore hardmass wire insulation 1,2 kmm Outer diameter insulation 1,2 kmm Ingredient freeness wire insulation 1,2 kmm Outer diameter insulation 1,2 kmm Conductor consequence 22 AWG Consultor consequence 1,3 kmm Current load capacity (int wire) 22 AWG Current load capacity (int wire) 4,8 A Characteristic inpedance 100 D 1 t 15 % @ 100 MHz Eledincal capacity inte constant (wire - wire)	Filler	yes
Naterial jacket PUR Shore hardness jacket 89 Shore A Freedom Tam Ingedients (jacket) 6.7 mm Tolerance outer diameter (jacket) 6.7 mm Tolerance outer diameter (jacket) 6.7 mm Material inner jacket FRNO Color (inner jacket) natur Material inner jacket FRNO Color (inner jacket) natur Material inner jacket FRNO Colur diameter insulation 1,4 mm Outer diameter insulation 65 Shore D Ingredient freeness wire insulation 65 Shore D Ingredient freeness wire insulation 162 May Conductor crossection (wire) 22 AWG Conductor crossection (wire) 22 AWG Conductor crossection (wire) 22 AWG Conductor vices and participa wires 24 AWG Material conductor wire 510 O MHz <td>wire arrangement</td> <td>white, yellow, blue, orange</td>	wire arrangement	white, yellow, blue, orange
Shore Rardness jackel 99 Shore A Freedom from ingrodients (jacket) lead-free, cadmium-free, cellicone-free Outer-Gameter (jacket) 1.5 % Material inner jacket FRINC Color (mer jacket) natur Material wire insulation 1.4 mm Outer diameter tolerance core insulation 1.5 % Shore hardness wire insulation 65 Shore D Ingredient freeness wire insulation 1.6 Shore D Ingredient freeness wire insulation 1.8 Shore A Concludor crosssection (wire) 22 AWG Conductor crosssection (wire) 22 AWG Conductor crosssection (wire) 22 AWG Contracting datapacity (intardiadrad) to DIN VDE 0289.4 Current load capacity (intardiadrad) to DIN VDE 0289.4 Current load capacity (inter oristant (wire - wire) 28 V/Q @ 60 s Ele	Cable weigth	69,3 g/m
Freedom from ingredients (jackat) lead free, cadmium free, CFC free, halogen-free Outer diameter (jackat) 6,7 mm Tolerance outer diameter (sheath) ± 5 % Material inner jacket FENC Colo: (mor jacket) matur Material inner jacket FENC Colo: (mor jacket) matur Material wire isalation PE Amount wires 4 Outer diameter isalation 6,5 %no D Ingredient freeness wire insulation 6,5 %no D Ingredient freeness wire insulation 6,5 %nor D Conductor crossection (wire) 7 Diameter of single wires 2,2 kWG Conductor crossection (wire) 8 stranded copper wire, bare Naminal voltage AC max. 300 V Current load capacity kinandari to DN VDE C284-4 Current load capacity kinandari to DN VE C284-4 Current load capacity kinandari to DN + 15 % @ 100	Material jacket	PUR
Outer-diameter (acket)6.7 mmTolerance sourd diameter (sheath) \pm 5 %Material iner (acket)naturMaterial iner (acket)naturMaterial iner (acket)naturMaterial iner (acket)naturMaterial iner (acket)1.4 mmOuter diameter (berance core insulation1.4 mmOuter diameter (berance core insulation4 5%Shore hardness wire insulation6.5 Shore DIngredient freeness wire insulation6.6 Shore DIngredient freeness wire insulation1ead-free, CFC-free, halogen-freeAnount view22 AWGConductor crossection (wire)22 AWGConductor viewStranded copper wire, bareNominal voltage AC max.300 VCurrent load capacity (standard)1o DIN VDE 0296 4Current load capacity (standard)1o D Ω	Shore hardness jacket	89 Shore A
Tolerance outer diameter (sheath) \pm 5 % Material inner jacket) FNXC Outor (inner jacket) natur Material wire insulation PE Amount wires 4 Outer diameter insulation 1.4 mm Outer diameter insulation 65 Shore D Ingredient freesses wire insulation 65 Shore D Ingredient freesses wire insulation 66 Shore D Ingredient freesses wire insulation 66 Shore D Ontuctor corsess wire insulation 66 Shore D Onductor Corsess wire insulation 12 AWG Conductor corsess wire insulation 22 AWG Conductor corsessection (wire) 22 AWG Contractor corsessection (wire) 22 AWG Contractor consection (wire) 22 AWG Contractor consection (wire) 22 AWG Contract consection (wire) 24 WG Current load capacity (standard) to DN VDE 0298 4 Current load capacity (standard) to DN VDE 0298 4 Curent load cap	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Material inner jacketFRNCColor (inner jacket)naturMaterial wire issulationPEAmount wires4Outer diameter insulation1.4 mmOuter diameter insulation6 % hoShore hardness wire insulation6 % hoIngredient freeness wire insulation6 % hoIngredient freeness wire insulation1.4 mmOuter diameter (wire)7Diameter of single wires22 AWGConductor cossection (wire)22 AWGConductor cossection (wire)22 AWGConductor cossection (wire)22 AWGConductor wireStranded copper wire, bareNominal voltage AC max.300 VCurrent load capacity (standard)10 DIN UDE 0298-4Current load capacity (standard)10 DIN UDE 0298-4Current load capacity (standard)10 DIN UDE 0298-4Current load capacity (inn. wire4.8 ACharacteristic inpedance100 $\Omega \perp 15 \% @ 100$ MHzElectrical resistance line constant wire50000 pF/kmPower frequency withstand voltage (wire - wire)2 kV @ 60 sIsolation resistance50000 MQ × kmMin. operating temperature (kingd)80 °COperation temperature (kingd)30 °COperation temperature (kingdi)70 °CFlame resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, app	Outer-diameter (jacket)	6,7 mm
Color (Inner jacket)naturMaterial wire insulationPEAmount wires4Outer diameter insulation1.4 mmOuter diameter insulation5 %Shore hardness wire insulation65 Shore DIngredient freeness wire insulation163 CPC-tree, halogen-freeAmount strands (wire)7Diameter of single wires22 AWGConductor crossection (wire)22 AWGConductor crossection (wire)22 AWGConductor wires Section (wire)22 AWGConductor or crossection (wire)22 AWGConductor wireStranded copper wire, bareNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (wire wire)2 kV @ 60 SElectrical resistance line constant (wire - sire)50000 pF/kmPower frequeny withstand voltage (wire - sire)2 kV @ 60 SIsolation resistance50000 MD < km	Tolerance outer diameter (sheath)	±5%
Material wire insulation PE Amount wires 4 Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 65 Shore D Ingredient freeness wire insulation 1ead-free, CFC-free, halogen-free Amount strands (wire) 7 Diameter of single wires 22 AWG Conductor crossection (wire) 22 AWG Material conductor wire Stranded copper wire, bare Nominal voltage AC max. 300 V Current load capacity min. wire 4.8 A Characteristic impodance 100 CH ± 15 % @ 100 MHz Electrical resistance line constant wire 55 Oxtm @ 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 - akt) 2 kV @ 60 s Electrical capacity line constant (wire - wire) 2 kV @ 60 s Electrical capacity line constant (wire - wire) 2 kV @ 60 s Electrical resistance 50000 pF/km Power frequency withstand voltage (wire - akt) 2 kV @ 60 s Electrical resistance 50000 MQ × km Min. operating temperature (static) 40 °C Max. operating temperature (static) 70 °C Power frequency withstand voltage (wire - isold) 2 kV	Material inner jacket	FRNC
Amount wires 4 Outer diameter insulation 1,4 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 65 Shore D Ingredient freeness wire insulation lead-free, CFC-free, halogen-free Amount strands (wire) 7 Diameter of single wires 22 AWG Conductor crosssection (wire) 22 AWG Conductor wire Stranded copper wire, bare Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (wire - wire) 100 Q ± 15 % @ 100 MHz Electrical resistance line constant wire 55 Q/km @ 20 °C AC withstand voltage (wire - wire) 2 kV @ 60 s Electrical resistance 50000 pF/km Power frequency withstand voltage (wire - shield) 2 kV @ 60 s Isolation resistance 5000 MQ × km Min. operating temperature (itsdic) 40 °C Operating temperature (itsdic) 40 °C Operating temperature (itsdic) 30 °C Operating temperature (itsdic) 30 °C Operating temperature (itsdic) 30 °C Operating temperature (itsdic)<	Color (inner jacket)	natur
Outer diameter insulation1,4 mmOuter diameter tolerance core insulation \pm 5 %Shore hardness wire insulation \pm 5 %Shore hardness wire insulation \pm 5 %Impedient freeness wire insulation \pm 5 %Mount 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)to DIN VDE 0298-4Current load capacity (wire - 4.8 ACharacteristic impedance100 $\Omega \pm$ 15 % @ 100 MHzElectrical resistance line constant wire55 Ωkm @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sElectrical greistance line constant (wire - wire)2 kV @ 60 sIsolation resistance5000 MC × kmMin. operating temperature (static)-40 °CMax. operating temperature (static)-40 °COperating temperature (static)-40 °COperating temperature (static)-70 °CPower resistanceEC 60332-22 LJ UL 1581 § 1090 LJ UL 1581 § 1100 FT2Ohenical resistanceGood, application-related testingCascine resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceDivel at immeterNo. of torsion cycles1	Material wire insulation	PE
Outer diameter tolerance core insulation \pm 5 %Shore hardness wire insulation66 Shore DIngredient freeness wire insulationlead-free, CFC-free, halogen-freeAmount strands (wire)7Diameter of single wires22 AWGConductor crosssection (wire)22 AWGMaterial conductor wireStranded copper wire, bareNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)55 G/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sElectrical resistance line constant wire55 G/km @ 20 °CAC withstand voltage (wire - shield)2 kV @ 60 sIsolation resistance50000 pF/kmPower frequency withstand voltage (wire - shield)2 kV @ 60 sIsolation resistance50000 MQ × kmMin. operating temperature (static)-40 °CMax. operating temperature (static)70 °CFlame resistanceIEC 60332-22 UL 1581 § 1000 UL 1581 § 1100 FT2Operating temperature max. (dynamic)70 °CFlame resistanceGood, application-related testingGasoline 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, a	Amount wires	4
Shore hardness wire insulation 65 Shore D Ingredent freeness wire insulation lead-free, CFC-free, halogen-free Amount strands (wire) 7 Diameter of single wires 22 AWG Conductor crosssection (wire) 22 AWG Material conductor wire Stranded copper wire, bare Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,8 A Characteristic impedance 100 Ω ± 15 % @ 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 Electrical capacity line constant (wire - wire) 2 kV @ 60 s Isolation resistance 5000 MΩ × km Min. operating temperature (statc) -40 °C Max. operating temperature (fixed) 30 °C Operating temperature (fixed) -30 °C <tr< td=""><td>Outer diameter insulation</td><td>1,4 mm</td></tr<>	Outer diameter insulation	1,4 mm
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 (wire - wire)55 D/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sElectrical resistance line constant wire55 D/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sElectrical capacity line constant (wire wire)50000 pF/kmPower frequency withstand voltage (wire - 2 kV @ 60 sIsolation resistance5000 MQ × kmMin. operaling temperature (static)-40 °CMax. operaling temperature (static)-40 °CMax. operating temperature (kixed)80 °COperating temperature (kixed)80 °COperating temperature max. (dynamic)-30 °COperating temperature max. (dynamic)70 °CFlame resistanceGood, application-related testingGasoline resistance	Outer diameter tolerance core insulation	± 5 %
Amount strands (wire) 7 Diameter of single wires 22 AWG Conductor crosssection (wire) 22 AWG Material conductor wire Stranded copper wire, bare Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 029*4 Cathistand voltage (wire - wire) 2 kV @ 60 s Electrical capacity (ine constant (wire wire) 50000 MQ × km Min. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Max. operating temperature (static) -30 °C Operating temperature max. (dynamic) 70 °C Flame resistance	Shore hardness wire insulation	65 Shore D
Diameter of single wires22 AWGConductor crosssection (wire)22 AWGMaterial conductor wireStranded copper wire, bareNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Corrent requency withstand voltage (wire - wire)50000 Pr/kmPower frequency withstand voltage (wire - shield)2 kV @ 60 sIsolation resistance5000 MQ × kmMin. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °COperating temperature (fixed)80 °COperating temperature (min. (dynamic))-30 °COperating temperature min. (dynamic)70 °CFlame resistanceGood, application-related testingGasoline resistanceGood, application-related testingGasoline resistanceGood, application-related testingGasoline resistanceDIN EN 60811-404 [Good, application-related testingGoli resistanceDIN EN 60811-404 [Good, appl	Ingredient freeness wire insulation	lead-free, CFC-free, halogen-free
	Amount strands (wire)	7
Material conductor wire Stranded copper wire, bare Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4.8 A Characteristic impedance 100 Ω ± 15 % @ 100 MHz Electrical resistance line constant wire 55 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2 kV @ 60 s Electrical capacity line constant (wire - wire) 50000 pF/km Power frequency withstand voltage (wire - jacket) 2 kV @ 60 s Isolation resistance 50000 MΩ × km Min. operating temperature (static) -40 °C Max. operating temperature (tked) 80 °C Operating temperature (tked) 30 °C Operating temperature max. (dynamic) 70 °C Flame resistance IEC 60332-2-2 UL 1581 § 1000 FT2 Chemical resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing <td< td=""><td>Diameter of single wires</td><td>22 AWG</td></td<>	Diameter of single wires	22 AWG
Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4.8 ACharacteristic impedance100 $\Omega \pm 15$ % 0 100 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 sAC withstand voltage (wire - shield)2 kV @ 60 sIsolation resistance5000 M $\Omega \times km$ Min. 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 testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingOil resistanceDIN EN 60811-404 = S °CTraver sing distance (C-track)5 m @ 25 °CNo. of bending cycles (C-track)5 m @ 25 °CNo. of torsion cycles1 Mio. 25 °C	Conductor crosssection (wire)	22 AWG
Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4,8 AChracteristic impedance100 $\Omega \pm 15 \% (0 \ 100 \ MHz)$ Electrical resistance line constant wire55 $\Omega km (0 \ 20 \ °C)$ AC withstand voltage (wire - wire)2 kV (0 \ 60 \ s)Electrical capacity line constant (wire - wire)50000 pF/kmPower frequency withstand voltage (wire - jacket)2 kV (0 \ 60 \ s)Isolation resistance5000 MQ × kmMin. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °COperating temperature min. (dynamic)-30 °COperating temperature min. (dynamic)-30 °CChemical resistanceIEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2Chemical resistanceGood, application-related testingGasoline resistanceOod, application-related testingOil resistanceOod, application-related testingGasoline resistanceDIN EN 60811-404 Good, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (fixed)5 x Outer diameterRending radius (gynamic)12 x Outer diameterNo. of bending cycles1 Mio. 25 °CTravel speed (C-track)1 Mio. 25 °C	Material conductor wire	Stranded copper wire, bare
	Nominal voltage AC max.	300 V
$\begin{tabular}{ c c c c c } \hline Characteristic impedance & 100 \Omega \pm 15 \% @ 100 MHz \\ \hline Electrical resistance line constant wire & 55 \Omega/km @ 20 °C \\ \hline AC withstand voltage (wire - wire) & 2 kV @ 60 s \\ \hline Electrical capacity line constant (wire - wire) & 50000 pF/km \\ \hline Power frequency withstand voltage (wire - jacket) & 2 kV @ 60 s \\ \hline AC withstand voltage (wire - shield) & 2 kV @ 60 s \\ \hline solution resistance & 5000 M\Omega \times km \\ \hline Min. operating temperature (static) & -40 °C \\ \hline Max. operating temperature (static) & -40 °C \\ \hline Operating temperature (fixed) & 80 °C \\ \hline Operating temperature min. (dynamic) & -30 °C \\ \hline Operating temperature max. (dynamic) & 70 °C \\ \hline Flame resistance & Good, application-related testing \\ \hline Gasoline resistance & Good, application-related testing \\ \hline Gasoline resistance & DIN EN 60811-404 Good, application-related testing \\ \hline Oil resistance & DIN EN 60811-404 Good, application-related testing \\ \hline Bending radius (fixed) & 5 × Outer diameter \\ \hline Bending radius (dynamic) & 12 × Outer diameter \\ \hline No. of bending cycles (C-track) & 5 m @ 25 °C \\ \hline Traver signed (C-track) & 5 n @ 25 °C \\ \hline No. of torsion cycles & 1 Mio. 25 °C \\ \hline \end{tabular}$	Current load capacity (standard)	to DIN VDE 0298-4
Electrical resistance line constant wire 55 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2 kV @ 60 s Electrical capacity line constant (wire - wire) 50000 pF/km Power frequency withstand voltage (wire - jacket) 2 kV @ 60 s AC withstand voltage (wire - shield) 2 kV @ 60 s 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 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 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	Current load capacity min. wire	4,8 A
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 MΩ × kmMin. operating temperature (static)-40 °CMax. operating temperature (static)-40 °COperating temperature min. (dynamic)-30 °COperating temperature max. (dynamic)70 °CFlame resistanceEEC 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 °CTraversing distance (C-track)5 m @ 25 °CNo. of torsion cycles1 Mio. 25 °C	Characteristic impedance	100 Ω ± 15 % @ 100 MHz
Electrical capacity line constant (wire - wire) 50000 pF/km Power frequency withstand voltage (wire - jacket) 2 kV @ 60 s AC withstand voltage (wire - shield) 2 kV @ 60 s 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 IEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 12 x Outer diameter No. of bending cycles (C-track) 3 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 1 Mio. 25 °C	Electrical resistance line constant wire	55 Ω/km @ 20 °C
Power frequency withstand voltage (wire - jacket)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sIsolation resistance5000 MQ × 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	AC withstand voltage (wire - wire)	2 kV @ 60 s
jacket)Z 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 cycles (C-track)3 Mio. @ 25 °CTraversing distance (C-track)5 m @ 25 °CNo. of torsion cycles1 Mio. 25 °C	Electrical capacity line constant (wire - wire)	50000 pF/km
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		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 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	AC withstand voltage (wire - shield)	2 kV @ 60 s
Max. operating temperature (fixed)80 °COperating temperature min. (dynamic)-30 °COperating temperature max. (dynamic)70 °CFlame resistanceIEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related 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)3,3 m/s @ 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 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	Min. operating temperature (static)	-40 °C
Operating temperature max. (dynamic)70 °CFlame resistanceIEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)12 x Outer diameterNo. of bending cycles (C-track)3 Mio. @ 25 °CTraversing distance (C-track)5 m @ 25 °CNo. of torsion cycles1 Mio. 25 °C	Max. operating temperature (fixed)	0° 08
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 °CTravel speed (C-track)3,3 m/s @ 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)	70 °C
Gasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)12 x Outer diameterNo. of bending cycles (C-track)3 Mio. @ 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	Good, application-related testing
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 °C No. of torsion cycles 1 Mio. 25 °C	No. of bending cycles (C-track)	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: 2024-05-20

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