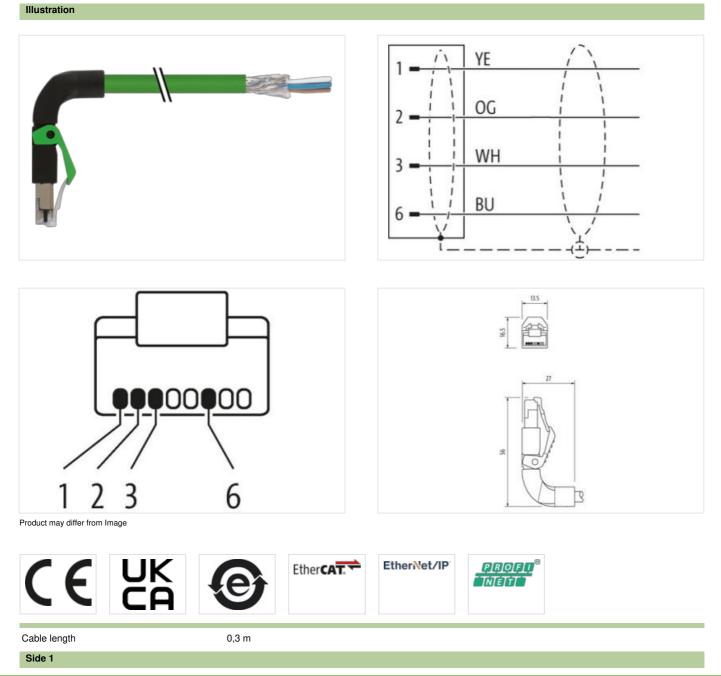


RJ45 male 90° down with cable shielded

PUR 1x4xAWG22 shielded gn UL/CSA+drag ch. 0.3m

Product fulfills requirements according to UN/ECE R118 Ethernet CAT5 Male 90° down 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: 2024-06-23

Murrelektronik B.V. | Takkebijsters 3 | 4817 BL Breda | Fon 085-22 20 282 | Fax 085-22 20 283 | shop@murrelektronik.nl | shop.murrelektronik.nl



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
ETIM-5.0	EC002599
customs tariff number	85444210
GTIN	4048879724012
Packaging unit	1
Electrical data Supply	
Operating voltage DC max.	60 V
Current operating per contact max.	1,5 A
Industrial communication	
Transfer parameters	CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)
Data transmission rate max.	100 MBit/s
Industrial communication Ethernet fur	
duplex	Full duplex
Device protection Electrical	
Degree of protection (EN IEC 60529)	IP20
Pollution Degree	3
Rated surge voltage	1 kV
Material group (IEC 60664-1)	1
Mechanical data	
Contour for corrugated hose	without
Mechanical data Material data	
Material housing	PUR
Environmental characteristics Climation	
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 leads, a subtraction of eable time
Note on bending radius	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.
Installation Cable	
wire arrangement	white, yellow, blue, orange
Cable identification	796
Jacket Color	green
Type of Certificate	cURus
Amount stranding	1
Stranding	4 wires around Core filler twisted
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	85 %
Banding	Fleece, Foil
Filler	yes
	-

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

Murrelektronik B.V. | Takkebijsters 3 | 4817 BL Breda | Fon 085-22 20 282 | Fax 085-22 20 283 | shop@murrelektronik.nl | shop.murrelektronik.nl



Cable weigh 93 gm Material jacket PUR Shore hardness jacket 98 Shore A Freedom from ingredients (jacket) 184 Shore A Cable (jacket) 5.7 mm Cable (jacket) 5.7 mm Cable (jacket) 5.7 mm Cable (jacket) 5.8 Material inner jacket FPNC Cable (jacket) natur Material inner jacket FPNC Cable (jacket) 1.4 mm Outer diameter insulation 1.5 % Shore bardness witer insulation 5.5 Nor D Ingredient freeness wire insulation 5.5 Nor D Ingredient freeness wire insulation 5.5 Nor D Ingredient freeness wire insulation 2.5 Nor D Ingredient freeness wire insulation 9.6 Nor D Ingredient freeness wire insulation 2.4 NG Canductor crosssection (wire) 2.4 NG Canductor wire S.3 Ande Naterial conductor wire S.4 AG Charent discussoption wire, wire S.5 Nor D Curent toot capapity (standord) to DIN VDE 0298-4 <th>wire arrangement</th> <th>white, yellow, blue, orange</th>	wire arrangement	white, yellow, blue, orange
Shore hardness jacket 89 Shore A Freedom from ingredients (jacket) Itead-free, catinium-free, OFC-free, halogen-free Outer-diameter (jacket) \pm 5 % Material innor jacket FRNC Color (mer jacket) natur Material innor jacket) natur Material wire insulation PE Annunt wires 4 Outer diameter insulation 1,4 mm Outer diameter insulation 6,5 Nore D Impredient freesware wire insulation 65 Shore D Impredient freesware wire insulation 65 Shore D Impredient freesware wire insulation 65 Shore D Conductor crossection (wire) 22 AWG Conductor crossection (wire) 22 AWG Conductor wires Stranded copper wire, bare Nominal voltage AC max. 300 V Current load capacity min. wire 4.8 A Charent and toppic (standard) 10 DI N VDE 0298-4 Current load capacity min. wire 5000 PFAm Power frequency withshand voltage (wire - wire) 5000 PFAm Power frequency withshand voltage (wire - wire) 2 kV @ 60 s <td>Cable weigth</td> <td>69,3 g/m</td>	Cable weigth	69,3 g/m
Freedom Irom Ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, eilicone-freeOuter-diameter (jacket)6,7 mmOuter-diameter (jacket)5.%Material inner jacketFFNCColor (inner jacket)naturMaterial wire insulationPEAmount wires4Outer diameter insulation5.%Outer diameter insulation5.5 %Shore hardness wire insulation6.5 Shore DIngredient Freeness wire insulation6.5 Shore DIngredient Freeness wire insulation6.5 Shore DIngredient Freeness wire insulation8.2 AWGConduct or single wires2.2 AWGConductor consection (wire)2.2 AWGMaterial conductor wireStranded copper wire, bareNominal Voltaga AC max.300 VCurrent load capacity min. wire4.8 ACharacteristic impedance100 $\Omega \pm 15 \%$ 100 MHzElectrical capacity min. wire5.6 Ohm Ø 20 °CAC withstand voltage (wire - wire)2.4 V@ 60 sElectrical capacity inte. constant (wire - wire)2.4 V@ 60 sStandard voltage (wire - wine)2.4 V@ 60 sCarent out capacity min. wire)5.0 Ohm Ø 20 °CAC withstand voltage (wire - wine)5.000 MJ-xStandard voltage (wire - wine)2.4 V@ 60 sElectrical capacity inte. constant (wire - wine)5.000 MJ -x hmMin. operating temperature (was, dynamic)-30 °COperating temperature (was, dynamic)-30 °COperating temperature (was, dynamic)-30 °COperating te	Material jacket	PUR
Outer-diameter (gabel) 6,7 mm Tolerance outer diameter (sheath) ± 5 % Material iner jacket FINC Color (inner jacket) natur Material iner jacket PE Amount wires 4 Outer diameter insulation 1.4 mm Outer diameter insulation 6.5 Shore D Ingredient feeness wire insulation 16.5 Shore D Ingredient feeness wire insulation 1ead-free, CPC-free, halogen-free Amount strands (wire) 7 Diameter of single wires 22 AWG Conductor crossection (wire) 22 AWG Conductor crossection (wire) 22 AWG Conductor crossection (wire) 22 AWG Conductor vire Stranded copper wire, bare Nomial 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 (inter overstant wire 55 QAkm @ 20 °C AG withstand voltage (wire - shield) 2 kV @ 60 s Electrical resistance ine constant wire 55 QQAm @ 20 °C AG withstand voltage (wire - shield) 2 kV @ 60 s <t< td=""><td>Shore hardness jacket</td><td>89 Shore A</td></t<>	Shore hardness jacket	89 Shore A
Tolerance outer diameter (sheath) \pm 5 %Material inner jacketFRNGGoler (inner jacket)naturMaterial wire insulationPEArnount wires4Outer diameter insulation1.4 mmOuter diameter insulation55 %Shore hardness wire insulation65 Shore DIngredient freeness wire insulation65 Shore DIngredient freeness wire insulation85 Nore DIngredient freeness wire insulation82 AWGConductor crosssection (wire)22 AWGConductor wiresStranded copper wire, bareNominal voltage AC max.300 VCurrent load capacity (instandard)to DIN VDE 028-4Chracter/site inpedance100 Q ± 15 % @ 100 MHzElectrical resistance line constant wire55 GXm @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sElectrical capacity inits wire insulation2 kV @ 60 sElectrical capacity withstand voltage (wire - shield)2 kV @ 60 sElectrical capacity (into wire)30 °COperating temperature (sticd)80 °COperating temperature (sticd)80 °COperating temperature (sticd)30 °COperating temperature (sticd)60 °COperating temperature (sticd)30 °COperating temperature (sticd)50 °CFama resistanceGood, application-	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Material inner jacket FRNC Golor (Inner jacket) natur Material wire insulation PE Amount wires 4 Outer diameter insulation 1.4 mm Outer diameter insulation 65 Shore D Ingredient fereness wire insulation 65 Shore D Ingredient fereness wire insulation 1ea dree, CF-ree, halogen-free Amount strands (wire) 7 Diameter of single wires 22 AWG Conductor crosssection (wire) 22 AWG Conductor crosssection (wire) Strande 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 Current load capacity (standard) to DIN 2.15 % @ 100 MHz Electrical resistance line constant wire 55 D/km @ 20 °C AC withstand voltage (wire - shield) 2 kV @ 60 s Electrical capacity (stindard) 2 kV @ 60 s Stool for A sin 5000 M M × km Man. operating temperature (stanc) 5000 M M	Outer-diameter (jacket)	6,7 mm
Color (inner jacket)naturMaterial wire insulationPEAmount wires4Outer diameter insulation1.4 mmOuter diameter insulation5 %Shore bardness wire insulation65 Shore DIngredient feeness wire insulation65 Shore DIngredient feeness wire insulation65 Shore DConduct crossescion (wire)22 AWGConductor crossescion (wire)22 AWGConductor crossescion (wire)22 AWGConductor crossescion (wire)22 AWGCurrent load capacity min. wire4.8 ACharad capacity min. wire4.8 ACharad capacity min. wire4.8 ACharad capacity min. wire55 QArm (20 °CA dwithstand voltage (wire - wire)21V (@ 60 sElectrical capacity line constant wire55 QArm (20 °CA dwithstand voltage (wire - wire)21V (@ 60 sElectrical capacity line constant (wire - wire)21V (@ 60 sSouldon (resistance50000 QF/kmPower frequency withstand voltage (wire - wire)21V (@ 60 sSouldon (resistance50000 QCOperating temperature (tablc)40 °CMar. operating temperature (tablc)40 °C </td <td>Tolerance outer diameter (sheath)</td> <td>±5%</td>	Tolerance outer diameter (sheath)	±5%
Material wire insulation PE Amount wires 4 Outer diameter insulation 1.4 mm Outer diameter loterance core insulation 15 % Shore hardness wire insulation 65 Shore D Ingredient freeness wire insulation lead-free, CFC-free, halogen-free Amount stands (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 0298-6	Material inner jacket	FRNC
Amount wires4Outer diameter 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 crossection (wire)22 AWGConductor vireStranded copper wire, bareNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity win. wire4.8 ACharlenteristic impedance100 $\Omega \pm 15 \% \oplus$ 100 MHzElectrical resistance line constant twire50000 PF/kmPower frequency withstand voltage (wire - isology 0 °CAC withstand voltage (wire - wire)2 kV \oplus 60 sStolator estistance50000 M2 × ImMin. operating temperature (static)40 °CMax. operating temperature (static)40 °CMax. operating temperature (static)30 °COperating temperature (static)50 × Outer diameterCharlent resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testing	Color (inner jacket)	natur
Outer diameter insulation 1,4 mm Outer diameter loberance core insulation ± 5 % Shore hardness wire insulation 65 Shore D Impredient 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 (standard) to DIN VDE 0298-4 Caracteristic inpedance 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 Isolation resistance 5000 MΩ × km Min. operating temperature (statc) 40 °C Operating temperature (statc) 40 °C Operating temperature (statc) 80 °C Operating temperature (statc) 50 °C Gord application-related testing Good, application-related testing	Material wire insulation	PE
Quter diameter tolerance core insulation $\pm 5 \%$ Shore hardness wire insulation65 Shore DIngredient freeness wire insulation65 Shore DIngredient freeness wire insulation10 Addree, CFC-free, halogen-freeAmount stands (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 0 $\Omega \pm 15 \%$ 00 10 MHzElectrical resistance150 $\Omega \pm 15 \%$ 00 10 MHzElectrical resistance line constant (wire - wire)2 kV @ 60 sCarter total capacity wire - wire)2 kV @ 60 sElectrical capacity line constant (wire - wire)2 kV @ 60 sSoloton resistance50000 MQ × kmMin. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CMax. operating temperature max. (dynamic)-30 °COperating temperature max. (dynamic)-30 °COperating temperature max. (dynamic)-30 °COr C15 mare esistanceGood, application-related testingGausin resistanceGood, application-related testingGausin resistanceGood, application-related testingGausin resistanceGood, application-related testingGausin resistanceGood, application-related testing	Amount wires	4
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 load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (wine) 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) 50000 pF/km Power frequency withstand voltage (wire - wire) 2 kV @ 60 s Isolation resistance 5000 MΩ × km Min. operating temperature (static) 40 °C Max. operating temperature (static) 40 °C Max. operating temperature max. (dynamic) 70 °C Operating temperature max. (dynamic) 70 °C Piame resistance Good, application-related testing	Outer diameter insulation	1,4 mm
Ingredient freeness wire insulation lead-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 (standard) to DIN VDE 0298-4 Current load capacity (win, 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 Solution resistance 50000 MΩ × km Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) 30 °C Operating temperature min. (dynamic) -30 °C Fitamar eesistance EC 60032-2-2 I UL 1581 § 1090 I	Outer diameter tolerance core insulation	±5%
Anount 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 (min. wire) 4.8 A Characteristic impedance 100 Ω ± 15 % @ 100 MHz Electrical esistance line constant wire 55 Ωkm @ 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 - algo a s 2 kV @ 60 s Isolation resistance 50000 MΩ × km Min. operating temperature (static) 40 °C Max. operating temperature (static) 40 °C Operating temperature min. (dynamic) 30 °C Operating temperature min. (dynamic) 30 °C Operating temperature min. (dynamic) 70 °C Flame resistance Good, application-related testing Gasoline resistance Good, application-related testing Oli resistance Good, applica	Shore hardness wire insulation	65 Shore D
Dameter of single wires 22 AWG Conductor crosssection (wire) 22 AWG Material conductor wire Stranded copper wire, bare Nominal voltage AC max. 300 V Current toad capacity (standard) to DIN VDE 0298-4 Current toad capacity min. wire 4.8 A Characteristic impedance 100 Ω ± 15 % @ 100 MHz Electrical resistance line constant wire 55 Ωkm @ 20 °C AC withstand voltage (wire - wire) 2 kV @ 60 s Electrical capacity inin constant (wire - wire) 2 kV @ 60 s Electrical capacity ine constant (wire - wire) 2 kV @ 60 s Stolation resistance 50000 MC x km Min. operating temperature (static) -40 °C Max. operature (tiked) 80 °C Operating temperature max. (dynamic) 70 °C Flame resistance Elect 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance Dink EN 60811-404 Good, application-related testing Gasoline resistance Dink EN 6081-404 Good, application-related testing Gasoline resistance Dink EN 6081-404 Good, application-related tes	Ingredient freeness wire insulation	lead-free, CFC-free, halogen-free
Conductor rosssection (wire)22 AWGMaterial conductor wireStranded copper wire, bareNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity (min. wire)4.8 ACharacteristic impedance100 $\Omega \pm 15$ % @ 100 MHzElectrical resistance line constant wire55 D/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sElectrical capacity line constant (wire - wire)2 kV @ 60 sAC withstand voltage (wire - acket)2 kV @ 60 sAC withstand voltage (wire - acket)2 kV @ 60 sAC withstand voltage (wire - acket)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sCoperating temperature (static)-40 °CMax. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CGasoline resistanceGood, application-related testingCasoline resistanceGood, application-related testingGasoline resistanceGood, application-related testingGasoline resistanceGood, application-related testingGasoline resistanceDin EN 60811-404 [Good, application-related testingOil resistanceDin NEN 60811-404 [Good, application-related testingBending r	Amount strands (wire)	7
Material conductor wireStranded copper wire, bareNominal voltage AC max. $300 \vee$ Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4.8 ACharacteristic impedance $100 \Omega \pm 15 \% \oplus 100 \text{ MHz}$ Electrical resistance line constant wire $55 \Omega km \oplus 20 °C$ AC withstand voltage (wire - wire) $2 kV \oplus 60 s$ Electrical capacity line constant (wire - wire) 50000 pF/km Power frequency withstand voltage (wire - jacket) $2 kV \oplus 60 s$ AC withstand voltage (wire - shield) $2 kV \oplus 60 s$ Isolation resistance $5000 M\Omega \times km$ Min. operating temperature (static) $40 °C$ Max. operating temperature (static) $40 °C$ Operating temperature (ixed) $80 °C$ Operating temperature max. (dynamic) $70 °C$ Flame resistanceGood, application-related testingGasoline resistanceGood, application-related testingGir esistanceDIN EN 60811-404 [Good, application-related testingGasoline resistanceDIN EN 60811-404 [Good, application-related testingGasoline resistanceDIN EN 60811-404 [Good, application-related testingBending radius (fixed) $5 \times Outer diameter$ Bending radius (fixed) $5 \times Outer diameter$ No. of bending cycles (C-track) $3 m \otimes 25 °C$ Traversing distance (C-track) $3 m \otimes 25 °C$ No. of torsion cycles 1 Min. 25 °C	Diameter of single wires	22 AWG
Nominal voltage AC max. $300 V$ Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4,8 ACharacteristic impedance $100 \Omega \pm 15 \% @ 100 MHz$ Electrical resistance line constant wire $55 \Omega km @ 20 °C$ AC withstand voltage (wire - wire) $2 kV @ 60 s$ Electrical capacity line constant (wire - wire) $2 kV @ 60 s$ Power frequency withstand voltage (wire - wire) $2 kV @ 60 s$ Isolation resistance $5000 M\Omega \times km$ 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 resistanceEC 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 resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-folated testingOil resistanceGood, application-folated testingOil resistanceGood, application-folated testingOil resistanceGood, application-folated testingOil resistanceS \outer diameterBending radius (fixed)S × Outer diameter </td <td>Conductor crosssection (wire)</td> <td>22 AWG</td>	Conductor crosssection (wire)	22 AWG
Contract to Diak VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Characteristic impedance100 $\Omega \pm 15$ % @ 100 MHzElectrical resistance line constant wire $55 \Omega/km$ @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sElectrical capacity line constant (wire - wire)50000 pF/kmPower frequency withstand voltage (wire - shield)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sStoation resistance5000 MQ × kmMin. operating temperature (static)-40 °CMax. operating temperature (static)-40 °COperating temperature (mixe)30 °COperating temperature (mixe)70 °CFlame resistanceElectoal code, application-related testingOil resistanceGood, application-related testingOil resistanceDio Application-related testingOil resistanceS \outer diameterNo. of bending cycles (C	Material conductor wire	Stranded copper wire, bare
Current 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 $\oplus 60 \ ^{\circ}$ Electrical capacity line constant (wire - wire)50000 pF/kmPower frequency withstand voltage (wire - $\frac{1}{2} kV \oplus 60 \ ^{\circ}$ 2 kV $\oplus 60 \ ^{\circ}$ AC withstand voltage (wire - shield)2 kV $\oplus 60 \ ^{\circ}$ Ac withstand voltage (wire - shield)2 kV $\oplus 60 \ ^{\circ}$ Isolation resistance5000 MQ $\times km$ Min. operating temperature (static)-40 \ ^{\circ}CMax. operating temperature (static)-40 \ ^{\circ}COperating temperature min. (dynamic)-30 \ ^{\circ}COperating temperature max. (dynamic)70 \ ^{\circ}CFlame resistanceGood, application-related testingGasoline resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (fixed)5 m $\oplus 25 \ ^{\circ}C$ Traversing distance (C-track)5 m $\oplus 25 \ ^{\circ}C$ Traversing distance (C-track)5 m $\oplus 25 \ ^{\circ}C$ No. of torsion cycles1 Min. 25 \ ^{\circ}C	Nominal voltage AC max.	300 V
Characteristic impedance $100 \Omega \pm 15 \% @ 100 \text{ MHz}$ Electrical resistance line constant wire $55 \Omega/\text{km} @ 20 °\text{C}$ 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 Solution resistance 5000 MQ x km Min. operating temperature (static)-40 °CMax. operating temperature (ixed) $80 °C$ Operating temperature min. (dynamic)-30 °COperating temperature max. (dynamic)70 °CFlame resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (dynamic)12 x Outer diameterBending radius (dynamic)12 x Outer diameterNo. of bending cycles (C-track)5 m @ 25 °CTravel speed (C-track)5 m @ 25 °CNo. of torsion cycles1 Mio. 25 °C	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 Jacket) 2 kV @ 60 s Solotton resistance 5000 MΩ × km Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C Operating temperature max. (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) 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 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 Oli resistance DIN EN 60811-404 Good, application-related testing Oli resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 × Outer diameter Bending radius (dynamic) 12 × Outer diameter No. of bending cycles (C-track) 3 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C No. of bending cycles 1 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 (static) -40 °C Operating temperature (ifwed) 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 6081-404 Good, application-related testing Oil resistance DIN EN 6081-404 Good, application-related testing Bending radius (fixed) 5 x 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	Electrical resistance line constant wire	55 Ω/km @ 20 °C
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 No. of torsion cycles 1 Mio. 25 °C	AC withstand voltage (wire - wire)	2 kV @ 60 s
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 resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (fixed)5 x Outer diameterBending rudius (dynamic)12 x Outer diameterNo. of bending cycles (C-track)3 Mio. @ 25 °CTraver sing distance (C-track)5 m @ 25 °CNo. of torsion cycles1 Mio. 25 °C	Electrical capacity line constant (wire - wire)	50000 pF/km
Isolation resistance $5000 \text{ M}\Omega \times \text{km}$ 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 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) $5 \times \text{Outer diameter}$ Bending radius (dynamic) $12 \times \text{Outer diameter}$ No. of bending cycles (C-track) $3 \text{Mio. @ 25 ^{\circ}C}$ Traversing distance (C-track) $5 \text{m @ 25 ^{\circ}C}$ No. of torsion cycles $1 \text{Mio. 25 ^{\circ}C}$		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)5 m @ 25 °CTraversing distance (C-track)3,3 m/s @ 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 °CTraversing distance (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 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 °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 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	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 °C Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 1 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: 2024-06-23

Murrelektronik B.V. | Takkebijsters 3 | 4817 BL Breda | Fon 085-22 20 282 | Fax 085-22 20 283 | shop@murrelektronik.nl | shop.murrelektronik.nl