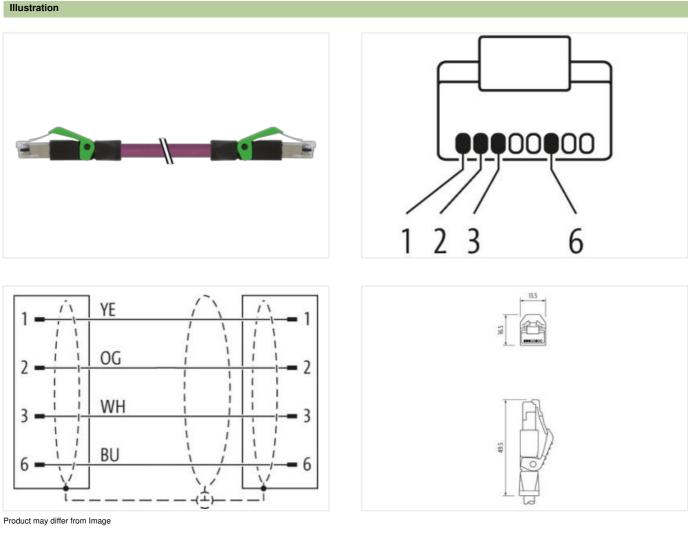


## RJ45 male 0° / RJ45 male 0° shielded

PUR 1x4xAWG22 shielded vt UL/CSA+drag ch. 25m

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



C F IS LISTED

Cable length

25 m

Side 1

Mounting method

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: 2024-05-19

inserted

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



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	4048879762007
Packaging unit	1
Electrical data   Supply	
Operating voltage DC max.	60 V
Current operating per contact max.	1,5 A
Industrial communication	
Transfer parameters	CAT5e, Class D (ISO/IEC 11801:2002), (EN 50173-1)
Data transmission rate max.	100 MBit/s
Industrial communication   Ethernet function	-
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	
Contour for corrugated hose	without
-	without
Mechanical data   Material data	
Material housing	PUR
Locking material	РА
Mechanical data   Mounting data	
Looking techniques	Snap-in connector
Environmental characteristics   Climatic	
Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
Important installation notes	
Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Note on bending radius	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Installation   Cable	
	700
Cable identification	798 violat
Jacket Color	violet
Type of Certificate	cURus
Amount stranding	1

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Cable shiekling (tope)     opport braid, linned       Cable shiekling (coverage)     85 %       Bunding     Fileour, Foll       Filer     yes       wite arrangement     wite, yelow, blue, orange       Cable wite/file     88.64 g m       Material jackut     PUR       Shore hardmas jackut     99 Shore A       Freedem from ingredients (jacku)     0.7 m       Cable wite/file     88.64 g m       Material inora jackut     99 Shore A       Freedem from ingredients (jacku)     0.7 m       Cable diameter (iscalu)     1.7 m       Cabre diameter (iscalu)     1.8 m       Cabre diameter insulation     PE       Anordt wires     4       Outer diameter insulation     1.4 m       Outer diameter insulation     1.6 S Shore D       Ingredient themenses wire insulation     1.6 S Shore D       Ingredient themeses wire insulation     1.6 S Shore D       Ingredient themeses wire insulation     1.6 S Shore D       Ingredient themeses wire insulation     1.6 and the fore theore	Stranding	4 wires around Core filler twisted
Banding     Files     Fol       Filer     yes     wire arrangement     with, yellow, bule, orange       Cable weight     88,84 g/m     Material jackut     BAde weight     B8,84 g/m       Material jackut     PUP     Shore hardness jacket     89 Shore A       Freedom from ingredients (jacket)     80 Shore A     Freedom from ingredients (jacket)     8.7 m       Outer-diameter (jacket)     8.7 m     Toleranco outer diameter (localit)     1.5 %       Material twin insulation     PE     Toleranco outer diameter (localit)     natr       Material twin insulation     PE     Toleranco score insulation     4       Outer diameter tolerance core insulation     1.5 %     Shore D     Toleranco score insulation       Shore hardness wire insulation     1.6 mm     Outer diameter tolerance core insulation     1.5 %       Shore hardness wire insulation     1.6 mm     Outer diameter tolerance core insulation     1.5 %       Monard strands (wire)     7     Tomator strands (wire)     2.2 AWG     Tomator strands (wire)       Conductor wire     Strange 2.5 °C     Tomator strands (wire)     5.0 Mm @ 20 °C     A	Cable shielding (type)	copper braid, tinned
File     yes       wire arrangement     white, yellow, blue, orange       Cable weigh     68.84 g/m       Material jocket     PUR       Shore harchess jacket     89 Shore A       Freedom from ingredients (jacket)     lead-free, cadmium-free, CFC-tree, halogen-free, silicone-free       Outer diameter (jacket)     6.7 mm       Order anse uter diameter (heath)     4.5 %       Material wire insulation     PE       Anount wires     4       Outer diameter insulation     PE       Anount wires     4       Outer diameter insulation     FE       Anount wires     4       Outer diameter insulation     FS %       Shore hardness wire insulation     65 Shore D       Ingredient freeness wire insulation     fea.4-tree, CFC-tree, halogen-free       Anount strands (wire)     7       Diameter of single wires     22 AWG       Conductor consecution wire     Stranded copper wire, bare       Traversing distance (C-track)     5 m @ 2 °C       Normal votage AC max.     300 V       Carrent tool capaoity (sindardn)     to DIN VDE D289-4       Ca	Cable shielding (coverage)	85 %
wite arrangementwhite, yellow, blue, orangeCable weight68,64 g/mCable weight68,64 g/mMaterial jackotPURShore hardness jackot89 Shore AFreedom from ingredients (jackot)6.7 mmCuber-diameter (jackot)6.7 mmTolerance outer diameter (sheath)± 5 %Material innor jackotFRNCColor (inner jackot)naturMaterial innor jackotPEAmount wins4Outer diameter insulation1.4 mmOuter diameter insulation1.5 %Shore hardness wire insulation1.5 %Outer diameter insulation1.4 mmOuter diameter insulation1.5 %Shore hardness wire insulation1.5 %Diameter of single wires2.2 AWGConductor crosssection (wire)2.2 AWGConductor crosssection (wire)2.2 AWGConductor crosssection (wire)2.2 AWGCurrent 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 (into weights)5.000 DFAmPower frequency Weights weights2.4 V/@ 60 aElectrical capacity line constant (wire - wire)5.000 DFAmPower frequency Weights weights2.4 V/@ 60 aElectrical capacity line constant (wire - wire)5.000 DFAmPower frequency Weights weights2.4 V/@ 60 aElectrical capacity line constant (wire - wire)5.000 DFAmPower frequency	Banding	Fleece, Foil
Cable weight     68.64 g/m       Material jacket     PUR       Shore hardness jacket     99 Shore A       Freedom from ingredients (jacket)     lead free, cadmium-free, CFC free, halogen-free, silicone-free       Outer-diameter (jacket)     6,7 mm       Toerance outer diameter (theilt)     1.5 %       Material inner jacket     FRNC       Color (inner jacket)     natur       Material wire insulation     PE       Amount Wires     4       Outer diameter insulation     1,4 mm       Outer diameter insulation     1,4 mm       Outer diameter insulation     6 Shore D       Imgredient treenses were insulation     16 Shore D       Ingredient treenses were insulation     12 WG       Conductor crossection (wire)     22 AWG       Conductor resossection (wire)     12 WG       Current Load Capacity (standard)     5 m @ 2 *C       Nominal voltage AC max.     300 V       Current Load Capacity (standard)     5 m @ 2 *C       Nominal voltage (wire - wire)     50000 PKm       Power frequery withstand voltage (wire - wire)     50000 PKm       Power frequery withstand voltage (wire	Filler	yes
Material jacket     PUR       Shore hardness jackot     89 Shore A       Freedom from ingredients (jacket)     lead free, cadmium-free, CFC-free, halogen-free       Outer-diameter (jacket)     6,7 mm       Tolerance outer diameter (sheath)     ± 5 %       Material iner jacket     FNNC       Color (inerr jacket)     natur       Material wire insulation     PE       Amount wires     4       Outer diameter insulation     1.4 mm       Outer diameter insulation     1.4 mm       Outer diameter tolerance core insulation     1.5 %       Shore hardness wire insulation     1.6 Shore D       Ingredient treeness wire insulation     1.6 Shore D       Ingredient diagle wires     2.2 AWG       Conductor crossection (wire)     2.2 AWG       Conductor vires     5 m @ 25 °C       Nominal Voltage AC max.     300 V       Current load capacity (standard)     to DIN VDE 0298.4       Curent load capacity	wire arrangement	white, yellow, blue, orange
Shore hardness jacket     89 Shore A       Freedom from ingredients (jacket)     lead free, cadmium-free, CFC-tree, halogen-free, silicone-free       Outer-diameter (jacket)     ± 5 %       Material imer jacket     FRNC       Color (imer jacket)     natur       Material imer jacket     FRNC       Color (imer jacket)     natur       Material wire insulation     PE       Amount wires     4       Outer diameter insulation     1.4 nm       Outer diameter insulation     65 Shore D       Ingredient freeness wire insulation     65 Shore D       Ingredient freeness wire insulation     163 Three, FCC-free, halogen-free       Amount strands (wire)     7       Diameter of single wires     22 AWG       Concluctor consection (wire)     22 AWG       Conductor consection (wire)     24 WG       Conductor consection (wire)     10 DIN VDE 0298.4       Current load capacity (standard)     to DI 1 15 % @ 100 MHz       Electrical pasolphinn, wire <td>Cable weigth</td> <td>68,64 g/m</td>	Cable weigth	68,64 g/m
Freedom from ingredients (jacket)     lead-free, cadmium-free, CFC-free, halogen-free       Outer-diameter (jacket)     6.7 mm       Orderadeuter (jacket)     6.7 mm       Orderadeuter (jacket)     6.7 mm       Orderadeuter (jacket)     natur       Material inner jacket     FRNC       Color (inner jacket)     natur       Material vine insulation     PE       Amount writes     4       Outer diameter insulation     1.5 %       Shore hordnesce ceri ensulation     65 Shore D       Ingredient heeness wire insulation     65 Shore D       Outer diameter insulation     165 %       Conductor crosssection (wire)     22 AWG       Conductor vises (wire)     7       Diameter of single wires     24 AWG       Conductor vise Grack()     5 m @ 25 °C       Nominal voltage AC max.     300 V       Current load capacity (standard)     to DIN VDE 0298-4       Current load capacity (standard)	Material jacket	PUR
Outer-diameter (jacket)     6,7 mm       Tolerance outer diameter (jacket)     ± 5 %       Material inner jacket     FRNC       Color (inner jacket)     natur       Material inner jacket)     natur       Material inner jacket)     natur       Material inner jacket)     PE       Amount wies     4       Outer diameter tolerance core insulation     1,4 mm       Outer diameter tolerance core insulation     16 Shore D       Ingredient freeness wire insulation     lead-free, CFC-free, halogen-free       Amount stands (wire)     7       Diameter of single wires     22 AWG       Conductor ressesction (wire)     22 AWG       Current load capacity (standard)     to DIN VDE 0298-4       Current load capacity (st	Shore hardness jacket	89 Shore A
Tolerance outer diameter (sheath) $\pm$ 5 %Material inner jacketFRNCColor (inner jacket)naturMaterial wire isolationPEAmount wires4Outer diameter insulation1,4 mmOuter diameter insulation15 %Shore hardness wire insulation65 Shore DIngredient feeness wire insulation1ead-free, CFC-free, halogen-freeAmount stands (wire)7Diameter of single wires22 AWGConductor crossection (wire)22 AWGConductor vires exercised (wire)21 AWGConductor vires exercised (wire)21 AWGCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity (wire)21 KV @ 60 sCharacteristic impedance100 Ch ± 15 % @ 100 MHzElectrical resistance line constant (wire - wire)21 KV @ 60 sRever frequency withstand voltage (wire - wire)21 KV @ 60 sMin. operating temperature min. (dynamic)30 °COperating temperature min. (dynamic)30 °C	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Material inner jacketFRNCColor (inner jacket)naturMaterial wire insulationPEAmount wires4Outer diameter insulation1.4 mmOuter diameter insulation5 %Shore hardness wire insulation65 Shore DIngredient feeness wire insulationlead-free, CFC-free, halogen-freeAmount wires22 AWGConductor crossection (wire)22 AWGConductor wireStranded copper wire, bareTraversing distance (E-track)5 m 62 5° CNominal voltage AC max,300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)50000 pF/kmPower frequency withstand voltage (wire-2 kV @ 60 sElectrical capacity line constant (wire - wire)20000 pF/kmPower frequency withstand voltage (wire-2 kV @ 60 sMin. operating temperature (static)40 °CMax. operating temperature (static)40 °COperating temperature max. (dynamic)70 °CCapariting temperature max. (dynamic)70 °CCharacteriatio registanceGood, application-related testingGasolin creatistoneGood, application-related testingGasolin creatistoneDio Codo, application-related te	Outer-diameter (jacket)	6,7 mm
Color (Inner jacket)     natur       Material wire insulation     PE       Amount wires     4       Outer diameter insulation     1.4 mm       Outer diameter lolerance core insulation     ± 5 %       Shore hardness wire insulation     168 Shore D       Ingredient freeness wire insulation     168 drive, CFC-free, halogen-free       Amount strands (wire)     7       Diameter of single wires     22 AWG       Conductor corsescienton (wire)     22 AWG       Conductor or sossection (wire)     22 AWG       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 Q $\Omega \pm 15 \% 0^{\circ}$ 00 G       A withstand voltage (wire - wire)     2 kV @ 60 s	Tolerance outer diameter (sheath)	±5%
Material wire insulationPEAmount wires4Outer diameter insulation1.4 mmOuter diameter insulation $\pm 5 \%$ Shore hardness wire insulation $65$ Shore DIngredient freeness wire insulationlead-free, CFC-free, halogen-freeAmount stands (wire)7Diameter of single wires22 AWGConductor crossection (wire)22 AWGMaterial conductor wireStranded copper wire, bareTraversing distance (C-track)5 m $\otimes 25  ^{\circ}$ CNominal voltage AC max.300 VCurrent load capacity (stinadard)to DIN VDE 0298-4Current load capacity (stinadard)to QI $\pm 15  \% \oplus 100  \text{MHz}$ Electrical resistancefile 000 $\pm 15  \% \oplus 100  \text{MHz}$ Electrical capacity (stinadard) </td <td>Material inner jacket</td> <td>FRNC</td>	Material inner jacket	FRNC
Amount wires 4   Outer diameter insulation 1.4 mm   Outer diameter tolerance core insulation ± 5 %   Shore hardness wire insulation te 5 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 crosssection (wire) 22 AWG   Matorial conductor wire Stranded copper wire, bare   Traversing distance (C-track) 5 m @ 25 °C   Nominal voltage AC max. 300 V   Current load capacity (standard) to DIN VDE 0298-4   Current load capacity (wire) 2 kV @ 60 s   Electrical resistance fine constant wire 55 Ωkm @ 20 °C   AC withstand voltage (wire - wire) 2 kV @ 60 s   Electrical capacity inic constant (wire - wire) 2 kV @ 60 s   Min. operating temperature (mixe) 2 kV @ 60 s   Min. operating temperature (mixe) 20 °C   Operating temperature (mixe) 2 kV @ 60 s   Min. operating temperature (mixe) 2 kV @ 60 s   Min. operating temperature (mixe) 2 kV @ 60 s   Min. operating temperature (mixe) 30 °C   Operating temperature (mixe) 30 °C   Operating temperature (mixe)	Color (inner jacket)	natur
Outer diameter insulation1.4 mmOuter diameter tolerance core insulation $\pm$ 5 %Shore hardness wire insulation65 Shore DIngredient freeness wire insulationlead-tree, CFC-free, halogen-freeAmount strands (wire)7Diameter of single wires22 AWGConductor crosssection (wire)22 AWGMaterial conductor wireStranded copper wire, bareTraversing distance (C-track)5 m @ 25 °CNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity (wire - singe 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sElectrical resistance line constant wire55 Qurm @ 20 °CAC withstand voltage (wire - sine)2 kV @ 60 sAC withstand voltage (wire - sine)2 kV @ 60 sAC withstand voltage (wire - sine)2 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CMax. operating temperature (static)-30 °COperating temperature (static)-40 °CMax. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CMax. operating temperature (static)-70 °CFlame resistanceGood, application-related testingGood, application-related testingGood, application-related testingGood	Material wire insulation	PE
Outer diameter tolerance core insulation $\pm$ 5 %Shoe hardness wire insulation65 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, bareTraversing distance (C-track)5 m @ 25 °CNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity (wire - wire)2 kV @ 60 sElectrical resistance line constant wire55 0/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sElectrical capacity line constant (wire - wire)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sMax. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °COperating temperature (mired)30 °COperating temperature (mired)70 °CFlame resistanceEC 60032-2-2 1 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 testingOil resistanceDIN EN 60811-404   Good,	Amount wires	4
Shore hardness wire insulation     65 Shore D       Ingradient 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       Traversing distance (C-track)     5 m @ 25 °C       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)     50000 pF/km       Power frequency withstand voltage (wire - shield)     2 kV @ 60 s       AC withstand voltage (wire - shield)     2 kV @ 60 s       Max. operating temperature (it, dynamic)     -30 °C       Operating temperature (it, dynamic)     -30 °C       Operating temperature (it, dynamic)     70 °C       Flame resistance     Good, application-related testing       Gasoline resistance     G	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     Traversing distance (C-track)   5 m @ 25 °C     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 (win- wire)   2 kV @ 60 s     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 - lacket)   2 kV @ 60 s     AC withstand voltage (wire - shield)   2 kV @ 60 s     Min. operating temperature (stacic)   -40 °C     Max. operating temperature (stacic)   -40 °C     Max. operating temperature (stacic)   -70 °C     Flame resistance   Gcod332-22   UL 1581 § 1090   UL 1581 § 1100 FT2     chemical resistance   Good, application-related testing <td>Outer diameter tolerance core insulation</td> <td>±5%</td>	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     Traversing distance (C-track)   5 m @ 25 °C     Nominal voltage AC max.   300 V     Current load capacity (standard)   to DIN VDE 0298-4     Current load capacity (standard)   to DO 0 MHz     Electrical resistance   100 Ω ± 15 % @ 100 MHz     Electrical resistance line constant wire   5000 pF/km     Power frequency withstand voltage (wire - facket)   2 kV @ 60 s     Min. operating temperature (stalc)   40 °C     Max. operating temperature (stalc)   60 °C     Operating temperature (m	Shore hardness wire insulation	65 Shore D
Diameter of single wires   22 AWG     Conductor crosssection (wire)   22 AWG     Material conductor wire   Stranded copper wire, bare     Traversing distance (C-track)   5 m @ 25 °C     Nominal voltage AC max.   300 V     Current load capacity (standard)   to DIN VDE 0298-4     Carrent load capacity (standard)   to DX to © 0°C     AC withstand voltage (wire - wire)   50000 PF/km     Power frequency withstand voltage (wire - shield)   2 kV @ 60 s     Max. operating temperature (static)   -40 °C     Max. operating temperature (static)   -40 °C     Max. operating temperature min. (dynamic)   -30 °C	Ingredient freeness wire insulation	lead-free, CFC-free, halogen-free
Conductor crosssection (wire)   22 AWG     Material conductor wire   Stranded copper wire, bare     Traversing distance (C-track)   5 m @ 25 °C     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 - shield)   2 kV @ 60 s     AC withstand voltage (wire - shield)   2 kV @ 60 s     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   IEC 600322-2: 2   UL 1581 § 1000   UL 1581 § 1100 FT2     chemical resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Oil resistance   DIN EN 60811-404   Good, appl	Amount strands (wire)	7
Material conductor wire     Stranded copper wire, bare       Traversing distance (C-track)     5 m @ 25 °C       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 - shield)     2 kV @ 60 s       AC withstand voltage (wire - shield)     2 kV @ 60 s       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       Oil resistance     Good, application-related testing       Oil resistance     Di N EN 60811-404 [Good, application-related testing	Diameter of single wires	22 AWG
Traversing distance (C-track)5 m @ 25 ° CNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4.8 ACharacteristic impedance100 Ω ± 15 % @ 100 MHzElectrical resistance line constant wire55 Ω/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sElectrical capacity line constant (wire - wire)50000 pF/kmPower frequency withstand voltage (wire - jacket)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °COperating temperature (min. dynamic)-30 °COperating temperature min. (dynamic)-30 °COperating temperature min. (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 testingOil resistanceDIN EN 60811-404   Good, application-related testingBending radius (fixed)5 x Outer diameterTravel speed (C-track)3 Mio.No. of torsion cycles1 Mio.	Conductor crosssection (wire)	22 AWG
Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4,8 ACharacteristic impedance100 Q ± 15 % @ 100 MHzElectrical resistance line constant wire55 Q/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 sMax. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °COperating temperature (min. (dynamic))-30 °COperating temperature min. (dynamic)70 °CFlame resistanceIEC 60332-2-2 I UL 1581 § 1090   UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingBending radius (fixed)5 x Outer diameterTavel speed (C-track)3 Mio.No. of torsion cycles1 Mio.	Material conductor wire	Stranded copper wire, bare
Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4.8 ACharacteristic 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) $50000 \text{ pF/km}$ Power frequency withstand voltage (wire - jacket) $2 kV @ 60 \text{ s}$ AC withstand voltage (wire - shield) $2 kV @ 60 \text{ s}$ AC withstand voltage (wire - shield) $2 kV @ 60 \text{ s}$ AC withstand voltage (wire - shield) $2 kV @ 60 \text{ s}$ AC withstand voltage (wire - shield) $2 kV @ 60 \text{ s}$ Max. operating temperature (static)-40 °CMax. operating temperature (fixed) $80 °C$ Operating temperature min. (dynamic)-30 °COperating temperature max. (dynamic) $70 °C$ Flame resistanceIEC 60332-2-2 I UL 1581 § 1090 I 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) $5 \times Outer diameter$ Bending radius (dynamic)12 x Outer diameterTravel speed (C-track)3 Mio.No. of torsion cycles1 Mio.	Traversing distance (C-track)	5 m @ 25 °C
Current load capacity min. wire4.8 ACharacteristic impedance100 $\Omega \pm 15 \% \oplus 100$ MHzElectrical 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) $2 kV \oplus 60 s$ AC withstand voltage (wire - shield) $2 kV \oplus 60 s$ Min. operating temperature (static) $-40 °C$ Max. operating temperature (static) $-40 °C$ Max. operating temperature (fixed) $80 °C$ Operating temperature min. (dynamic) $-30 °C$ Operating temperature max. (dynamic) $70 °C$ Flame resistanceIEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingBending radius (fixed) $5 \times Outer diameter$ Travel speed (C-track) $3$ Mio.No. of torsion cycles1 Mio.	Nominal voltage AC max.	300 V
Characteristic impedance   100 Ω ± 15 % @ 100 MHz     Electrical resistance line constant wire   55 Ω/km @ 20 °C     AC withstand voltage (wire - wire)   2 kV @ 60 s     Electrical capacity line constant (wire - wire)   50000 pF/km     Power frequency withstand voltage (wire - jacket)   2 kV @ 60 s     AC withstand voltage (wire - shield)   2 kV @ 60 s     AC withstand voltage (wire - shield)   2 kV @ 60 s     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     Travel speed (C-track)   3 Mio.     No. of torsion cycles   1 Mio.	Current load capacity (standard)	to DIN VDE 0298-4
Electrical 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 sAC withstand voltage (wire - shield)2 kV @ 60 sMax. 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 (dynamic)12 x Outer diameterTavel speed (C-track)3 Mio.No. of torsion cycles1 Mio.	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 sAC withstand voltage (wire - shield)2 kV @ 60 sMax. 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 radius (dynamic)12 x Outer diameterTravel speed (C-track)3 Mio.No. of torsion cycles1 Mio.	Characteristic impedance	100 Ω ± 15 % @ 100 MHz
Electrical capacity line constant (wire - wire)50000 pF/kmPower frequency withstand voltage (wire - jacket)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sMin. 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 diameterTravel speed (C-track)3 Mio.No. of torsion cycles1 Mio.	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 sMin. 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 diameterTravel speed (C-track)3 Mio.No. of torsion cycles1 Mio.	AC withstand voltage (wire - wire)	2 kV @ 60 s
jacket)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sMin. 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 diameterTravel speed (C-track)3 Mio.No. of torsion cycles1 Mio.	Electrical capacity line constant (wire - wire)	50000 pF/km
Min. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °COperating temperature min. (dynamic)-30 °COperating temperature max. (dynamic)70 °CFlame resistanceIEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)12 x Outer diameterTravel speed (C-track)3 Mio.No. of torsion cycles1 Mio.		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 testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)12 x Outer diameterTravel speed (C-track)3 Mio.No. of torsion cycles1 Mio.	AC withstand voltage (wire - shield)	2 kV @ 60 s
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     Travel speed (C-track)   3 Mio.     No. of torsion cycles   1 Mio.	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 diameterTravel speed (C-track)3 Mio.No. of torsion cycles1 Mio.	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 diameterTravel speed (C-track)3 Mio.No. of torsion cycles1 Mio.	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 diameterTravel speed (C-track)3 Mio.No. of torsion cycles1 Mio.	Operating temperature max. (dynamic)	70 °C
Gasoline resistance   Good, application-related testing     Oil resistance   DIN EN 60811-404   Good, application-related testing     Bending radius (fixed)   5 x Outer diameter     Bending radius (dynamic)   12 x Outer diameter     Travel speed (C-track)   3 Mio.     No. of torsion cycles   1 Mio.	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     Travel speed (C-track)   3 Mio.     No. of torsion cycles   1 Mio.	chemical resistance	Good, application-related testing
Bending radius (fixed) 5 x Outer diameter   Bending radius (dynamic) 12 x Outer diameter   Travel speed (C-track) 3 Mio.   No. of torsion cycles 1 Mio.	Gasoline resistance	Good, application-related testing
Bending radius (dynamic) 12 x Outer diameter   Travel speed (C-track) 3 Mio.   No. of torsion cycles 1 Mio.	Oil resistance	DIN EN 60811-404   Good, application-related testing
Travel speed (C-track) 3 Mio.   No. of torsion cycles 1 Mio.	Bending radius (fixed)	5 x Outer diameter
No. of torsion cycles 1 Mio.	Bending radius (dynamic)	12 x Outer diameter
	Travel speed (C-track)	3 Mio.
Torsion stress ± 180 °/m	No. of torsion cycles	1 Mio.
	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: 2024-05-19

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