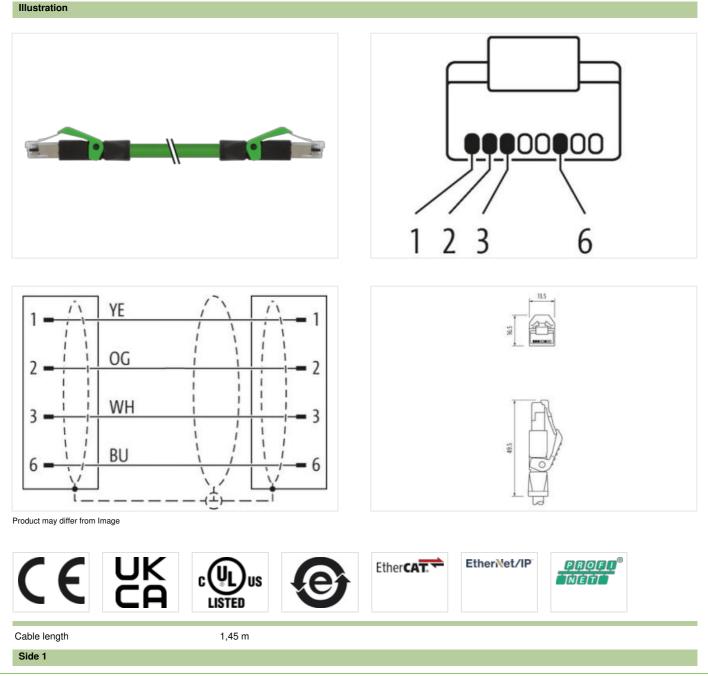


RJ45 male 0° / RJ45 male 0° shielded

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: 2024-06-03

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	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	
Fransfer parameters	CAT5e, Class D (ISO/IEC 11801:2002), (EN 50173-1)
Data transmission rate max.	100 MBit/s
Industrial communication Ethernet func	tionality
luplex	Full duplex
Diagnostics	
Status indication LED	
	no
Device protection Electrical	
Degree of protection (EN IEC 60529)	IP20
	IP20 3
Pollution Degree	
Pollution Degree Rated surge voltage	3
Pollution Degree Rated surge voltage Material group (IEC 60664-1)	3 1 kV
Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data	3 1 kV
Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Contour for corrugated hose	3 1 kV I
Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Contour for corrugated hose Mechanical data Material data	3 1 kV I without
Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Contour for corrugated hose Mechanical data Material data Material housing	3 1 kV I without PUR
Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Contour for corrugated hose Mechanical data Material data Material housing Locking material	3 1 kV I without
Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Contour for corrugated hose Mechanical data Material data Material housing Locking material	3 1 kV I without PUR
Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Contour for corrugated hose Mechanical data Material data Material housing Locking material Mechanical data Mounting data	3 1 kV I without PUR
Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Contour for corrugated hose Mechanical data Material data Material housing Locking material Mechanical data Mounting data Looking techniques	3 1 kV I without PUR PA
Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Contour for corrugated hose Mechanical data Material data Material housing Locking material Mechanical data Mounting data Looking techniques Environmental characteristics Climatic	3 1 kV I without PUR PA
Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Contour for corrugated hose Mechanical data Material data Material housing Locking material Mechanical data Mounting data Looking techniques Environmental characteristics Climatic Operating temperature min.	3 1 kV I without PUR PA Snap-in connector
Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Contour for corrugated hose Mechanical data Material data Material housing Locking material Mechanical data Mounting data Looking techniques Environmental characteristics Climatic Operating temperature min. Operating temperature max.	3 1 kV I without PUR PA Snap-in connector -25 °C
Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Contour for corrugated hose Mechanical data Material data Material housing Locking material Looking techniques Environmental characteristics Climatic Operating temperature min. Operating temperature max. Additional condition temperature range	3 1 kV I without PUR PA Snap-in connector -25 °C 85 °C
Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Contour for corrugated hose Mechanical data Material data Material housing Locking material Mechanical data Mounting data Looking techniques Environmental characteristics Climatic Dperating temperature min. Dperating temperature max. Additional condition temperature range Important installation notes	3 1 kV 1 without PUR PA Snap-in connector -25 °C 85 °C depending on cable quality
Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Contour for corrugated hose Mechanical data Material data Material housing Locking material Mechanical data Mounting data Looking techniques Environmental characteristics Climatic Dperating temperature min. Dperating temperature max. Additional condition temperature range Important installation notes Note on strain relief	3 1 kV I without PUR PA Snap-in connector -25 °C 85 °C depending on cable quality 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
Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Contour for corrugated hose Mechanical data Material data Material housing Locking material Mechanical data Mounting data Looking techniques Environmental characteristics Climatic Operating temperature min. Operating temperature max. Additional condition temperature range Important installation notes Note on strain relief Note on bending radius	3 1 kV I without PUR PA Snap-in connector -25 °C 85 °C depending on cable quality Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Contour for corrugated hose Mechanical data Material data Material housing Locking material Mechanical data Mounting data Looking techniques Environmental characteristics Climatic Operating temperature min. Operating temperature max. Additional condition temperature range Important installation notes Note on strain relief Note on bending radius Installation Cable	3 1 kV I without PUR PA Snap-in connector -25 °C 85 °C depending on cable quality 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.
Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Contour for corrugated hose Mechanical data Material data Material housing Locking material Mechanical data Mounting data Looking techniques Environmental characteristics Climatic Operating temperature min. Operating temperature max. Additional condition temperature range Important installation notes Note on strain relief Note on bending radius	3 1 kV I without PUR PA Snap-in connector -25 °C 85 °C depending on cable quality 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

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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 pollow, blue, orangeCable wing/h89,3 p/mMatriali jacketPUFShare hardness jacket89 Share AFreedom from ingredients (jacket)89 Share ACable wing/h15 %.Cable wing/h15 %.Cable diameter (sketh)1.5 %.Matriali jacketPEFTolerance outer diameter (sketh)1.5 %.Matrial inscription1.4 mmCable diameter (sketh)1.4 mmCable diameter (sincletance constraints)1.5 %.Share hardness wine insulation1.4 mmCable diameter (sincletance constraints)1.5 %.Share hardness wine insulation1.4 nmCable diameter insulation1.4 nmCable diameter insulation1.4 nmCater diameter brains cons insulation1.4 nmCater diameter brains constraints2.2 AWGCandactor wine Scalation1.0 DN VDE 02894Caurent Load capacity (skindard)1.0 DN VDE 02894Caurent Load capacity (skindard)1.0 DL ± 1.5 % dP 100 MHzCaurent Load capacity (skindard)2.4 WG 80.6Caurent Load capacity (skindard)2.4 W @ 80.6Electrical capacity min. wire4.8 AChara	Amount stranding	1
Cabbe Exheding (coverage) 85 % Banding Piecce, Fol Filer yes Wite arrangement white, yes(ox, blue, orange Cabbe weigh 663, g/m Material jacket PUF Shore hardnens (acket) 664, d/m Freedom from ingred/enits (jacket) 6, 7 m Delerace-outer dimeter (fisclet) 5, 5 Material inorg jacket FPNC Color (finer) (jacket) 7, 5 Order dimeter (fisclet) 1, 5 % Material inorg jacket FPNC Color (finer) (jacket) nalur Material inorg iacket) 1, 4 m Outer dimeter insulation 1, 4 m Outer dimeter insulation 1, 5 % Dimeter dinge wise 2, 5 % Conductor crossescience insulation 1, 4 m Outer dimeter insulation 1, 4 m Outer dimeter insulation 1, 4 m Conductor crossescience insulation 1, 4 m Conductor crossescience insulation 1, 5 % Material dinge wise 2, 4 WG Conductor cr	Stranding	4 wires around Core filler twisted
Banding Piezes. Foil Filler yos wire arrangement withe, yelow, blue, orange Cable weight 68.3 g/m Material jacket PUR Shore hardness jacket BS Shore A Freedom from ingredents (jacket) 189 Shore A Freedom from ingredents (jacket) 6.7 m Tolerance outer diameter (health) 5.5 % Material inergification 7.0 m Tolerance outer diameter (health) 5.5 % Material inergification 7.0 m Color (inner jacket) natur Material inergification 7.4 m Outer diameter insulation 1.4 m Conductor crossection (wire) 22 AWG Conductor vires weire insulation 1.4 m Control diameter (insulation (insulation vire) 50 G Nm 20 G Current diad capapoity (sindrawt)	Cable shielding (type)	copper braid, tinned
Filter yes wire arrangement white, yellow, blue, comage Cable weight 69.3 g/m Material jacket PUR Shore hardness globet 89.5 Shore A Freedom from ingredients (jacket) 6.7 mm Outer-diameter (jacket) 6.7 mm Olderacouter diameter (short) 2.5 % Material inner jacket FINC Color (inner jacket) natur Material wire insulation PE Amount wires 4 Outer diameter insulation 1.4 mm Outer diameter insulation 1.5 % Shore hardness wire insulation 16.5 Shore D Impredient freeness wire insulation 16.3 Shore D Impredient freeness wire insulation 16.3 Shore D Impredient freeness wire insulation 16.4 free, CFC-free, halogen-free Amount strands (wire) 7 Diameter of single wires 2.2 AWG Contruct or consecution (wire) 10.0 DH VDE 0286-4 Current load capacity (standard) to DIN VDE 0286-4 Current load capacity min wire 4.8 A	Cable shielding (coverage)	85 %
wire arrangement while, yellow, blue, orange Cable weight 66.3 g/m Material jacket PUR Shore handness jackat 89 Shore A Freadon fram ingedents (jacket) Isad-free, cadmum-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 6.5 mm Tolerance outer diameter (insteht) 1.6 % Material inserigations FRNO Color (inner jacket) natur Material inserigations 1.4 Outer diameter insulation 1.4 mm Outer diameter insulation 1.6 S Shore D Ingredient freeness wire insulation 1.6 S Shore D Ingredient freeness wire insulation 1.6 Mm Conduct crossection (wire) 7 Diameter of single wires 2 AWG Candent strands (wire) 7 Diameter of single wires 2 AWG Candent strands (wire) 100 VDE C284-4 Current land capacity (standard) 10 IN VDE C284-4 Current land capacity (standard) 10 IN VDE C284-4 Current land capacity (standard) 10 IN VDE C284-4 Current land capaci	Banding	Fleece, Foil
Cable weight 69.3 g/m Material jacket PUR Shore hardness jacket 69.3 Shore A Froedom from ingrodients jacket) 6.7 mm Outer-dameter (jacket) 6.7 mm Outer-dameter (jacket) 6.7 mm Outer-dameter (jacket) 6.7 mm Outer dameter (jacket) 6.7 mm Material inner jacket FRNC Outer diameter (jacket) natur Material inner jacket FRNC Outer diameter insulation 1.4 mm Outer diameter insulation 1.5 % Shore hardness wire insulation 1.5 Shore D Imgradient Hareness wire insulation 1.4 mm Outer diameter lower wire insulation 1.4 mm Outer diameter insulation 1.4 mm Matotai conductor wire 2.4 M/G	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 wire insulation 1.4 mm Outer diameter insulation 65 Shore D Ingredient freeness wire insulation 65 Shore D Ingredient freeness wire insulation 184.7 % Diameter of single wires 22 AWG Conductor crossection (wire) 22 AWG Conductor vires section (wire) 22 AWG Conductor vires section (wire) 22 AWG Conductor vires section (wire) 24 AWG Material conductor wire 81 A Characteristic impedance 100 Ω L 15 % (9100 MHz Electrical capacity line constant (wire - wire) 2 kV @ 60 s Electrical capacity line constant (wire - wire) 2 kV @ 60 s Electrical capacity line constant (wire arrangement	white, yellow, blue, orange
Shore Rardness jackel 99 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, cellicone-free Outer diameter (jacket) 1.5 % Material inner jacket FRINC Color (mer jacket) natur Material inner jacket FRINC Color (mer jacket) natur Material inner jacket) 1.4 mm Outer diameter insulation 1.5 % Shore hardness wire insulation 1.5 % Shore hardness wire insulation 1.5 % Shore hardness wire insulation 1.4 mm Outer diameter tolerance core insulation 1.5 % Shore hardness wire insulation 1.5 % Diameter d'signes wires 2 Conductor crossection (wire) 2.2 AWG Conductor crossection (wire) 2.2 AWG Conductor crossection (wire) 2.2 AWG Contender collapsch (standard) to DIN VDE 0288-4 Current load capacity film. wire 55 Ω/m @ 20 °C AC withstand voltage (wire - wire) 2.4 V @ 60 s Electrical capacity line constant (wire - wire) 2.4 V @ 60 s Electrical c	Cable weigth	69,3 g/m
Freedom from ingredients (jacket) lead free, cadmium free, CFC-free, halogen-free Outer diameter (jacket) 6.7 mm Tolerance outer diameter (sheath) ± 5 %. Material inner jacket FRNC Color (inner jacket) natur Material viner jacket) natur Material viner jacket FRNC Color (inner jacket) 1.4 mm Outer diameter insulation 1.4 mm Outer diameter visualian 6.5 %re Diameter insulation 1.5 %. Shore hardness wire insulation lead-free, CFC-free, halogen-free Amount strands (wire) 7 Diameter of single wires 2.2 AWG Conductor wire Stranded copper wire, bare Naminal voltage AC max. 300 V Current load capacity min, wire 4.8 A Characteristic impedance 100 0 ± 15 % @ 100 MHz Electrical resistance line constant (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 Electrical capacity line constant (wire - wire) <t< td=""><td>Material jacket</td><td>PUR</td></t<>	Material jacket	PUR
Outer diameter (jacket)6.7 mmTolerance outer diameter (jacket) \pm 5 %Matarial inner jacket)naturMatarial inner jacket)naturMatarial inner jacket)naturMatarial inner jacket)1.4 mmOuter diameter insulation1.4 mmOuter diameter insulation \pm 5%Shore hardness wire insulation \pm 5%Maneter of lage wires22 AWGConductor crossection (wire)22 AWGConductor viceStranded copper wire, bareNominal voltage AC max.300 VCurrent load capacity (standard)to DN VDE 0296 4Current load capacity (standard)to DN VDE 0296 4Current load capacity (standard)to DN VDE 0296 4Current load capacity (min. wire)4.8 ACharacteristic Impedance100 Ω ± 15 % @ 100 MHzElectrical resistance line constant wire55 DAm @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sElectrical capacity line constant (wire - wire)2 kV @ 60 sElectrical capacity line constant (wire - wire)300 °COperating temperature (taxod)80 °COperating temperature (taxod)<	Shore hardness jacket	89 Shore A
Tolerance outer diameter (sheath) ± 5 % Material inner jacket) FNNC Color (Inner jacket) natur Material wire insulation PE Amount wires 4 Outer diameter insulation 1.4 mm Outer diameter insulation 65 Shore D Ingredient freeses wire insulation 65 Shore D Ingredient freeses wire insulation 65 Shore D Ingredient freeses wire insulation 65 Shore D Conductor crosses wire insulation 64 Shore D Ingredient freeses wire insulation 85 Shore D Conductor crosses wire insulation 85 Shore D Conductor crosses wire insulation 86 Shore D Conductor crosses wire insulation 86 Shore D Conductor crosses wire insulation 87 M G Conductor crosses wire insulation 92 AWG Conductor crossestion (wire) 22 AWG Contract crossestion (wire) 24 WG Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (stand voltage (wire - shield) 2 kV @ 60 s </td <td>Freedom from ingredients (jacket)</td> <td>lead-free, cadmium-free, CFC-free, halogen-free, silicone-free</td>	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Material inner jacketFRNCColor (more jacket)naturMaterial wire insulationPEAmount wires4Outer diameter insulation1.4 mmOuter diameter lobarance core insulation65 Shore DIngredient treeness wire insulation65 Shore DIngredient treeness wire insulation65 Shore DIngredient treeness wire insulation1.4 mmOuter diameter (wire)7Diameter of single wires22 AWGConductor crossection (wire)22 AWGConductor crossection (wire)22 AWGConductor wire of stranded copper wire, bareNominal voltage AC max.300 VCurrent load capacity (stinadard)to DIN VDE Co298-4Current load capacity (stinadard)to SOAt	Outer-diameter (jacket)	6,7 mm
Color (Inner jacket)naturMaterial wire insulationPEAmount wires4Outer diameter insulation1,4 mmOuter diameter insulation5 %Shore hardness wire insulation66 Shore DIngredent freeness wire insulationfead-free, CFC-free, halogen-freeAmount strands (wire)7Diameter of single wires22 AWGCondructor crossection (wire)22 AWGCondructor crossection (wire)82 AWGCondructor crossection (wire)82 AWGCondructor or crossection (wire)82 AWGCondructor or crossection (wire)82 AWGCondructor or crossection (wire)82 AWGCondructor or crossection (wire)80 DVCurrent load capacity (standard)to DI NDE 0289.4Current load capacity (standard)to DI NDE 0289.4Current load capacity (standard)to DI NDE 0289.4Current load capacity (wire wire)2 kV @ 60 sElectrical resistance line constant wire5000 pF/kmPower frequency withstand voltage (wire - wire)2 kV @ 60 sElectrical capacity (lan constant (wire - wire)2 kV @ 60 sIsolation resistance5000 MQ x kmMin. operating temperature (static)40 °CMax. operating temperature (static)40 °COperating temperature (static)40 °COperating temperature (static)70 °CFlame resistanceGood. application-related testingOperating temperature (static)70 °CFlame resistanceGood. application-related testing <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 insulation 65 Shore D Ingredient freeness 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 Gonductor crossection (wire) 22 AWG Material conductor wire Stranded copper wire, bare Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Characteristic impedance 100 Q ± 15 % @ 100 MHz Electrical resistance line constant wire 55 Ω/km @ 20 °C AC withstand voltage (wire - i) 2 kV @ 60 s Electrical resistance line constant (wire - wire) 2 kV @ 60 s Isolation resistance 50000 DF/km Power frequency withstand voltage (wire - shield) 2 kV @ 60 s Isolation resistance 50000 MQ ~ km Min. operating temperature (static) 40 °C Max. operating temper	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 vire 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 (wire · wire) 2 KV @ 60 s Electrical resistance line constant wire 55 Q/km @ 20 °C AC withstand voltage (wire · wire) 2 KV @ 60 s Electrical resistance 50000 DF/km Power frequency withstand voltage (wire · shield) 2 KV @ 60 s Isolation resistance 5000 M2 × km Mix. operating temperature (isdaic) 40 °C Operating temperature (isdaic) 30 °C Operating temperature (isdaic) 70 °C Flame resista	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 % CFC-free, halogen-freeAmount strands (wire)7Diameter of single wires22 AWGConductor crossection (wire)22 AWGConductor vireStranded copper wire, bareNominal voltage AC max.300 VCurrent toal capacity (standard)to DIN VDE 0298-4Current toal capacity (standard)to CIAc withstand voltage (wir	Material wire insulation	PE
Outer diameter tolerance core insulation \pm 5 %Shore hardness wire insulation65 Shore DIngredient freeness wire insulationlead-free, CFC-free, halogen-freeAmount strands (wire)7Diameter of single wires22 AWGConductor 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 2.15 % @ 100 MHzElectrical resistance Inc constant wire55 C/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sElectrical capacity line constant (wire - wire)2 kV @ 60 sIsolation resistance50000 pF/kmPower frequency withstand voltage (wire - shield)2 kV @ 60 sIsolation resistance5000 MQ ~ kmMin. operating temperature (fixed)30 °COperating temperature (fixed)30 °COperating temperature (fixed)30 °COperating temperature (fixed)5 x Outer diameterHame resistanceGood, application-related testingGaseline resistanceGood, application-related testingGaseline resistanceGood, application-related testingGaseline resistance	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 208-4 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 (fixed) 2 kV @ 60 s Isolation resistance 5000 MΩ × km Mix. operating temperature (fixed) 40 °C Operating temperature (fixed) 30 °C Operating temperature (fixed) 70 °C Flame resistance Elec 6032-2-2 UL 1581 § 1109 UL 1581 § 1100 FT2 <td>Outer diameter insulation</td> <td>1,4 mm</td>	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 (standard)to DIN VDE 0298.4Current load capacity (standard)to DIN VDE 0298.4Current load capacity (standard)to DIN VDE 0298.4Claracteristic impedance100 $\Omega \pm 15$ % @ 100 MHzElectrical resistance line constant wire55 Ω km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sElectrical capacity line constant (wire wire)50000 pF/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 (keed)80 °COperating temperature (keed)80 °COperating temperature (keed)80 °COperating temperature (kixed)70 °CFlame resistanceElect 60332-2:1 UL 1581 § 1090 UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGaseline resistanceGood, application-related testingGaseline resistanceGood, application-related testingGaseline resistanceDin KEN 60811-404 Good, application-related testingBending radius (fixed)5 x Outer diameter <t< td=""><td>Outer diameter tolerance core insulation</td><td>± 5 %</td></t<>	Outer diameter tolerance core insulation	± 5 %
Amount strands (wire)7Diameter of single wires22 AWGConductor crosssection (wire)22 AWGMaterial conductor wireStranded copper wire, bareNominal voltage AC max.300 VCurrent bad capacity (standard)to DIN VDE 0298-4Current bad capacity (standard)to DIN VDE 0298-4Current bad capacity (standard)100 $\Omega \pm 15 \% \oplus 100$ MHzElectrical resistance line constant wire55 $\Omega km \oplus 20 \degree C$ AC withstand voltage (wire - wire)2 kV \oplus 60 sElectrical capacity line constant (wire wire)50000 pF/kmPower frequency withstand voltage (wire - jacket)2 kV \oplus 60 sAC withstand voltage (wire - state)2 kV \oplus 60 sAC withstand voltage (wire - state)2 kV \oplus 60 sAC withstand voltage (wire - shield)2 kV \oplus 60 sIsolation resistance5000 MQ × kmMin. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CMax. operating temperature (static)-30 °COperating temperature min. (dynamic)-30 °COperating temperature min. (dynamic)-70 °CFlame resistanceGood, application-related testingGaseline resistanceGood, application-related testingGaseline resistanceGood, application-related testingGaseline resistanceGood, application-related testingGaseline resistanceGood, application-related testingGir esistanceDin NEN 60811-404 Good, application-related testingBending radius (kned)5 x Outer dia	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 0298-4Commercial estance100 $\Omega \pm 15$ % @ 100 MHzElectrical capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to Wire 0Power frequency withstand voltage (wire - shield)2 kV @ 60 sIsolation resistance5000 M $\Omega \times km$ Min. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CMax. operating temperature (static)-30 °COperating temperature (min. (dynamic))-30 °COperating temperature (static)-40 °CRame resistanceIEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2Chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingGasoline resistanceDIN EN 60811-404 Good, application-relate	Ingredient freeness wire insulation	lead-free, CFC-free, halogen-free
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 Characteristic impedance 100 Ω ± 15 % @ 100 MHz Electrical castant 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 DF/km Power frequency withstand voltage (wire - shield) 2 kV @ 60 s Isolation resistance 5000 MΩ × km Min. operating temperature (istatic) -40 °C Max. operating temperature (istad) 80 °C Operating temperature (istad) 80 °C Operating temperature (istad) 80 °C Operating temperature (istad) 70 °C Flame resistance IEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2 Chemical resistance Good, application-related testing Gasoline resistance	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 AC withstand voltage (wire - shield) 2 kV @ 60 s Isolation resistance 5000 MΩ × km Min. operating temperature (static) -40 °C Max. operating temperature (ktatic) -40 °C Max. operating temperature max. (dynamic) 70 °C Flame resistance EC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter	Diameter of single wires	22 AWG
Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4.8 ACharacteristic impedance100 $\Omega \pm 15 \% \oplus 100$ MHzElectrical resistance line constant wire55 Ω /km $\oplus 20 °C$ AC withstand voltage (wire - wire)2 kV \oplus 60 sElectrical capacity line constant (wire - wire)50000 pF/kmPower frequency withstand voltage (wire - jackel)2 kV \oplus 60 sAC withstand voltage (wire - shield)2 kV \oplus 60 sIsolation resistance5000 M $\Omega \times km$ Min. operating temperature (static)-40 °CMax. operating temperature (static)-40 °COperating 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 = S °CTraver signe gistance (C-track)5 x Outer diameterBending radius (fixed)5 x Outer diameterNo. of bending cycles (C-track)5 m \oplus 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 - ipacket)2 kV (0 \ 60 \ s)AC withstand voltage (wire - shield)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 \ °CFlame resistanceIEC 60332-2-2 UL 1581 \ \$ 1000 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 diameterBending radius (fixed)5 x Outer diameterNo. of bending cycles (C-track)5 m (0 2 5 \ °CTravel speed (C-track)5 m (0 2 5 \ °CNo. of torsion cycles1 Mio. 25 \ °C	Material conductor wire	Stranded copper wire, bare
	Nominal voltage AC max.	300 V
$\begin{array}{l c c c c c } \hline Characteristic impedance & 100 \Omega \pm 15 \% @ 100 MHz \\ \hline Electrical resistance line constant wire & 55 \Omega/km @ 20 °C \\ \hline AC withstand voltage (wire - wire) & 2 kV @ 60 s \\ \hline Electrical capacity line constant (wire - wire) & 50000 pF/km \\ \hline Power frequency withstand voltage (wire - jacket) & 2 kV @ 60 s \\ \hline AC withstand voltage (wire - shield) & 2 kV @ 60 s \\ \hline solution resistance & 5000 M\Omega \times km \\ \hline Min. operating temperature (static) & 40 °C \\ \hline Max. operating temperature (fixed) & 80 °C \\ \hline Operating temperature min. (dynamic) & 70 °C \\ \hline Flame resistance & Good, application-related testing \\ \hline Gasoline resistance & Good, application-related testing \\ \hline Gasoline resistance & Good, application-related testing \\ \hline Gasoline resistance & DIN EN 60811-404 Good, application-related testing \\ \hline Oil resistance & DIN EN 60811-404 Good, application-related testing \\ \hline Hending radius (fixed) & 5 x Outer diameter \\ \hline Bending radius (dynamic) & 12 x Outer diameter \\ \hline No. of bending cycles (C-track) & 5 m @ 25 °C \\ \hline Traversing distance (C-track) & 3, 3 m/s @ 25 °C \\ \hline No. of torsion cycles & 1 Mio. 25 °C \\ \hline \end{array}$	Current load capacity (standard)	to DIN VDE 0298-4
Electrical resistance line constant wire $55 \Omega/km \oplus 20 ^{\circ}C$ 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) $-40 ^{\circ}C$ Max. operating temperature (fixed) $80 ^{\circ}C$ Operating temperature min. (dynamic) $-30 ^{\circ}C$ Operating temperature max. (dynamic) $70 ^{\circ}C$ 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) $5 \times Outer diameter$ Bending radius (dynamic) $12 \times Outer diameter$ No. of bending cycles (C-track) $5 m \oplus 25 ^{\circ}C$ Traversing distance (C-track) $5 m \oplus 25 ^{\circ}C$ No. of torsion cycles1 Mio. 25 ^{\circ}C	Current load capacity min. 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 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) 3 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C Traversing citarce (C-track) 5 m @ 25 °C No. of torsion 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 (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 God, application-related testing Gasoline resistance God, 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 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	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 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 × 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 torsion cycles 1 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 (gynamic)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 °CTravel speed (C-track)3,3 m/s @ 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 °CTravel speed (C-track)3,3 m/s @ 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 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	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: 2024-06-03

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