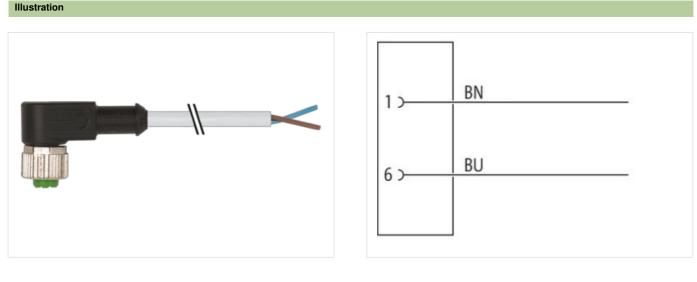


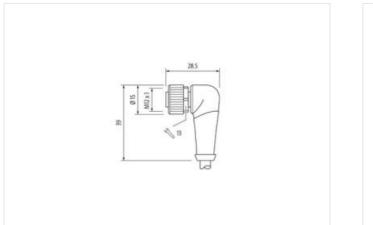
M12 female 90° A-cod. with cable

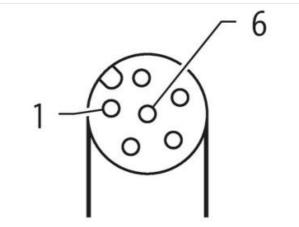
PUR 2x0.5 gy UL/CSA+drag ch. 12m

Cube67 Female 90° M12, 2-pole A-coded Actuator supply external Art-No. 7005 - M12 Lite - (plastic hexagonal screw) on request 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







Product may differ from Image



Cable length

12 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: 2024-04-25



Side 1

Side 1	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Coating contact	gold plated
Family construction form	M12
Thread	M12 x 1
suitable for corrugated tube (internal $Ø$)	10 mm
Coding	A
Material contact	Copper alloy
Material	PUR
No. of poles	2
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Side 2	
Stripping length (jacket)	20 mm
Coating contact	gold plated
Family construction form	free cable end
Commercial data	
ECLASS-6.0	27279218
ECLASS-6.1	27279218
ECLASS-0.1 ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0	27060311
ECLASS-10.1	27060311
ECLASS-11.1	27060311
ECLASS-12.0	27060311
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879196970
Packaging unit	1
Electrical data Supply	
Operating voltage AC max.	30 V
Operating voltage DC max.	30 V
Operating voltage AC (UL-listed)	30 V
Operating voltage DC (UL-listed)	30 V
Current operating per contact max.	4 A
Diagnostics	
Status indication LED	no
Installation Connection	
Stripping length (jacket)	20 mm
Mounting set	M12 x 1
Device protection Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	0,8 kV
Material group (IEC 60664-1)	
Mechanical data Material data	
	Nickeled
Coating locking	
Coating of fitting	nickel plated
Material gasket	FKM
Locking material	Zinc die-casting

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No. of berding cycles (C-track) 10 Mio. @ 25 °C Cable weigth 30,8 g/m Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free Outer diameter (jacket) 4.4 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 2 Outer diameter tolerance core insulation 1,4 mm Outer diameter insulation 1,4 mm Outer diameter insulation 70 ± 5 Shore D Ingredient freeness wire insulation 16 ± 5 % Shore hardness wire insulation 16 ± 5 % Diameter of single wires 0,15 mm Conductor crossection (wire) 0,5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C Inorizontal Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 9 A Electrical resistance line constant wire 39 Ω/km @ 20 °C Nominal voltage power AC max. 300	Material screw connection	Zinc die-casting
Environmental characturistics Climatic Operating temporature max. 85 °C Operating temporature max. 85 °C Additional condition temperature range depending on cable quality Contemity Product standard DN EN 81078-2-101 (M12) Installation Cable Cable Type 3 Jacker Color gray Type of Centifica culfus Anorati Stranding 1 Stranding You of Centifica culfus Anorati Stranding 1 Stranding You of Centifica Stranding Anorati Stranding 10 Mon @ 26 °C Cable weigh 30.3 gin Material pooles 90 4 5 Show A Freecom from ingredients (jacket) 10 Mon @ 26 °C Cable weigh 30.3 gin Material pooles 90 4 5 Show A Freecom from ingredients (jacket) 10 Show A Freecom from ingredients (jacket) 10 Show A Cable weigh 30.3 gin Material wrise installation 12 Showa D Cable weigh	Mechanical data Mounting data	
Operating temperature min. 25 °C Operating temperature max. 85 °C Additional confident temparature max. 68 °C Additional confident temparature max. 68 °C Additional confident temparature max. 68 °C Carbonity Product taisdard DIR NS 1078-2-101 (M12) Tabilation (Carbonic temparature max. 97 °C Carbonic temparature max. Carbonic temparature max. 97 °C Carbonic temparature max. Stranding 2 wires twisted 97 °C Carbonic temparature max. 98 °C Carbonic temparature max. Stranding 90 °C \$S Store A Carbonic temparature max. Freeden tem intergedients (ackel) 4 fram. Carbonic temparature max. Outer diamotic trobuscites (ackel) 4 fram. Carbonic temparature max. Outer diamotic trobuscites (ackel) 1 fram. Carbonic temparature max. Outer diamotic tro	Mounting method	inserted, screwed, Shaking protection
Operating temperature min. 25 °C Operating temperature max. 85 °C Additional confident temparature max. 68 °C Additional confident temparature max. 68 °C Additional confident temparature max. 68 °C Carbonity Product taisdard DIR NS 1078-2-101 (M12) Tabilation (Carbonic temparature max. 97 °C Carbonic temparature max. Carbonic temparature max. 97 °C Carbonic temparature max. Stranding 2 wires twisted 97 °C Carbonic temparature max. 98 °C Carbonic temparature max. Stranding 90 °C \$S Store A Carbonic temparature max. Freeden tem intergedients (ackel) 4 fram. Carbonic temparature max. Outer diamotic trobuscites (ackel) 4 fram. Carbonic temparature max. Outer diamotic trobuscites (ackel) 1 fram. Carbonic temparature max. Outer diamotic tro	Environmental characteristics Climatic	
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Additional condition temperature range depending on cable quality Conformity Product standard DIN EN 01076 2-101 (M12) Installation (Cable Cable informity Cable informity Cable informity 3 Cable informity Cable informity 31 Cable informity Cable informity 91 Standard Jacket Cobr gray Catle informity Type of Carificato OURus Annount strandard Namount strandard bown. bue Strandard Non informity 2 wires twisted Strandard No in bending cycles (C-track) 10 Mo. @ 25 °C Cable weight 30.8 g/m Nore informess jacket PUR Strandard Strandard Strandard Strandard Shore hardness jacket PUR Strandard Strandard Strandard Strandard Outer diameter (bleath) 4.5 % Strandard Strandard Strandard Strandard Outer diameter (bleath) 5 % Strandard Strandard Strandard Strandard Outer diameter (bleath) 5 % Strandard Strandard Strandard Strandard		
Contornity Product standard DN EN 61076-2-101 (M12) Installation Cable Cable identification 14 Cable identification 14 Cable identification 1 Datack ICalOF gray Type of Carfficate CuFues Arnount Stranding 1 Stranding Strandis Strandins Stranding		
Product standard DIN EN 61076.2.101 (M12) Installication 414 Cable identification 414 Cable identification 9 Jackat Color gray Type of Certificate cl/Bus Anount standing 1 Stranding 2 wirse twisted Wire arrangement brown, blue No. of bending cycles (C-track) 10 Mio. @ 25 °C Cable wight 30 B g/m Material jacket PUR Shore hardness jacket 99.5 Shore A Freedom from ingredients (jackot) iada free, cambum free, CFC free, halogen free, silcone free Outer diameter (jackef) 4.4 mm Tolerance outer diameter (jackef) 5 % Shore hardness in insulation PP Amount wires 2 Outer diameter insulation 74 5 Shore D Ingredient freenesse wire insulation 74 5 S % Dimeter of single wires 0.15 mm Conduct corsonascion (jackef (jackef) 9.4 5 Shore D Ingredient freenesse wire insulation 75 % Dimeter of single wires		
Instilation (Cable Cable identification 414 Cable identification 414 Cable Type 3 Cable identification gray Type of Carificatie CuPlus Anount stranding 1 Stranding 2 wires hwisted Wire arrangement brown, blue No. of bending cycles (C+track) 10 Mice 2 ° C Cable weight 30.8 g/m Material jackht 90 ± 5 Shore A Freedom from ingredionts (ackot) lead-free, cadmum free, CFC-free, halogen-free, silicone-free Cuber diameter insplation p.4 Tolerance outer diameter (sheath) 1.5 % Material wire insulation PP Anount wires 2 Cuber diameter insulation 1.4 rum Cuber diameter insulation 1.6 ad-free, cadmum free, CFC-free, halogen-free, silicone-free Anount wires 2 Cuber diameter insulation 1.6 ad-free, cadmum free, CFC-free, halogen-free, silicone-free Anount wires 2 Cuber diameter insulation 1.6 ad-free, cadmum free, CFC-free, halogen-free, silicone-free		
Cable identification 414 Cable Type 3 Stacket Color gray Type of Certificate cURus Annount stranding 1 Stranding 2 wires twisted wire arrangement brown, blue No. of bunding cycles (C-track) 10 Mo. @ 25 °C Cable weigh 0.0 g m Matorial lackot PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredientis (jacket) Iead-tree, cadmium-free, CFC-free, halogen-free, silicone-free Outer diameter (isacket) 4.4 mm Tolerance outer (another insulation PP Annount twiss 2 Outer diameter insulation 1.4 mm		DIN EN 61076-2-101 (M12)
Able Type 3 Jacké I Color gray Jacké I Color gray Type I Clarificale u/Bus Amount stranding 1 Stranding 2 wires twisted wire arrangement brown, blue No. of bending cycles (C-track) 10 Mio. @ 25 °C Cable weight 30.8 g/m Material Jacket PUR Shore hardness jacket 90.2 5 Shore A Freedom Tom Ingredients (jacket) 4.4 mm Tolerance outer diameter (hearth) 15 %. Material avio inspredients (jacket) 4.4 mm Outer diameter (locket) 1.5 %. Material avio inspress wire insulation PP Annort wios 2 Outer diameter (locket) 1.4 mm Outer diameter insulation 1.4 mm Outer diameter insulation 1.4 mm Outer diameter (locket) 1.6 mm Conductor corse insulation 1.5 %. Material conductor wire Strand das 6 Traversing distance (locket) 0.6 mm? Outer diameter (locket)	· ·	
Jacket Color gray Type of Certificatie cURus Amount stranding 1 Stranding 2 wires twisted Wire arrangement brown, blue No. of bending cycles (C-track) 10 Mio. @ 25 °C Cable weigh 30.8 g/m Material jacket 90 ± 5 Shore A Store hardness jacket 90 ± 5 Shore A Store hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) lead-tree, cadmium-free, CFC-tree, halogen-free, silicone-free Outer diameter (jacket) 4.4 mm Colarence outer diameter (jacket) 4.5 % Material wire insulation PP Amount wires 2 Outer diameter tilerance core insulation 1.4 mm Conductor wei insulation 1.4 mm		
Type of Cartificate cURus Amount stranding 1 Stranding 2 wires twisted Wire arrangement brown, blue No. of banding cycles (C-track) 10 Mio. @ 25 °C Cable weigh 30,8 g /m Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) 4,4 mm Tolerance outer diameter (jacket) 4,4 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 2 Outer diameter insulation 1,4 mm Curler diameter insulation 1,4 mm Conduct diameter insulation 1,4 mm Conduct diameter insulation 1,4 mm Conduct diameter insulation 1,4 mm Conductor crossection (wire) 28 Diameter of single wires 0,15 mm Conductor crossection (wire) 55 mm Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C (Invicontal Current load capacity min. wire <td< td=""><td></td><td>3</td></td<>		3
Amount stranding 1 Stranding 2 wires twisted wire arrangement brown, blue No. of bending cycles (C-track) 10 Mio. @ 25 °C Cable weight 30.8 g/m Material jacket PUR Shore hardness jackel 90 ± 5 Shore A Freedom from ingredients (jacket) lead free, cadmium free, CFC-free, halogen free, silicone free Outer diameter (jacket) ± 5 % Material izaket PP Amount wires 2 Outer diameter (jacket) ± 5 % Shore hardness wire insulation PP Amount wires 2 Outer diameter isulation 1.4 mm Outer diameter isulation 1.4 mm Outer diameter isulation 1.4 free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 2.8 Diameter of single wires 0.15 mm Conductor rossection (wire) 0.5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand dass 6 Traversing distance (C-tack) 10 m @ 28 °C () horizcontal		
Stranding 2 wires twisted wire arrangement brown, blue No. of bending cycles (C-track) 10 Min. @ 25 °C Cable weigth 30.8 g/m Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 4.4 mm Tolerance outer diameter (sheath) 1 5 % Material wire insulation PP Annout wires 2 Outer diameter tolerance outer diameter (sheath) 1 5 % Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation 70 ± 5 Shore D Must stard (vire) 28 Diameter of single wires 0.15 mm Conductor wires Stranded copper wire, bare Conductor wire Stranded copper wire, bare Current load capacity (standard) to DIN VDE 0298 4 Current load capacity (standard) to DIN VDE 0298 4	Type of Certificate	cURus
wire arrangement brown, blue No. of bending cycles (C-track) 10 Mio. @ 25 °C Cable weight 30.8 g/m Material jacket PUR Shore hardness jackat 90.5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, OFC-free, halogen-free, silicone-free Outer diameter (jacket) 4.4 mm Tolerance outer diameter (sheath) 5 % Material wire insulation PP Amount wires 2 Outer diameter tolerance core insulation 1.4 mm Outer diameter tolerance core insulation 1.5 Shore D Ingredient freeness wire insulation 1.6 Shore D Ingredient freeness wire insulation 1.6 Shore D Ingredient freeness wire insulation 1.6 Shore D Dameter of single wires 0.15 mm Conductor rossesction (wire) 0.5 mm² Conductor viree Stranded copper wire, bare Conductor viree Stranded copper wire, bare Conductor wiree Stranded copper wire, bare Conductor wiree Stranded copper wire, bare Conductor wiree Stranded copper wire, bare </td <td>Amount stranding</td> <td>1</td>	Amount stranding	1
No. of bending cycles (C-track)10 Mo. @ $25 ^{\circ}$ CCable weigh30.8 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)4.4 mmTolerance outer diameter (sheath)± 5 %Material jacketPPAmount wires2Outer diameter insulation1.4 mmOuter diameter insulation1.4 mmOuter diameter insulation1.4 free, cadmium-free, CFC-free, halogen-free, silicone-freeAmount wires2Outer diameter tolerance core insulation70 ± 5 Shore DIngredient freeness wire insulation70 ± 5 Shore DIngredient freeness wire insulation70 ± 5 Shore DConductor or coressection (wire)28Diameter of single wires0.15 mmConductor type (wire)Strand class 6Traversing distance (C-track)10 m@ 25 °C hortcontalCurrent load capacity (standard)to DIN VDE 0298.4Current load capacity (standard)to DIN VDE 0298.4Current load capacity (wire) wire)2.5 kV @ 60 sAcc @ 61 S2.5 kV @ 60 sMax. operating hemperature (static)-40 °CMax. operating hemperature (static)-40 °COperating hemperature (static)80 °C / 90 °C @ 10000 h OperationOperating hemperature (static)-40 °COperating hemperature (static)80 °C / 90 °C @ 10000 h OperationOperating hemperature (static)80 °C / 90 °C	Stranding	2 wires twisted
Cable weight 30,8 g/m Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) lead free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 4,4 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 2 Outer diameter insulation 1,4 mm Outer diameter insulation 1,5 % Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation 16 4 mm Conductor gross exition (wire) 28 Diametor of single wires 0,15 mm Conductor gross exition (wire) 0,5 mm² Material conductor wire Strande clospop rwire, bare Conductor gross exition (wire) 0,5 mm² Current load capacity (strandard) to DIN VDE 028-4 Current load capacity (strandard)	wire arrangement	
Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer diameter (gacket) ± 5 % Material wire insulation PP Amount wires 2 Outer diameter rolerance core insulation ± 5 % Shore hardness wire insulation 1.4 mm Outer diameter lolerance core insulation ± 5 % Shore hardness wire insulation 1.4 mm Outer diameter lolerance core insulation ± 5 % Shore hardness wire insulation 10 ± 5 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 28 Diameter of single wires 0.15 mm Conductor rossection (wire) 0.5 mm ² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C horizontal Current load capacity min. wire 9 A Electrical resistance line constant wire 39 O/km @ 20 °C	No. of bending cycles (C-track)	10 Mio. @ 25 °C
Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 4,4 mm Tolerance outer diameter (shealth) ± 5 % Material wire insulation PP Amount wires 2 Outer diameter (shealth) ± 5 % Shore hardness wire insulation 1,4 mm Outer diameter (sheath) ± 5 % Shore hardness wire insulation 70 ± 5 Shore D Shore hardness wire insulation 70 ± 5 Shore D Mount strands (wire) 28 Dameter of single wires 0,15 mm Conductor rosseetion (wire) 0,5 mm ² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C horizontal Current load capacity min. wire 9 A Electrical resistance line constant wire 39 Ω/km @ 20 °C Nominal voltage power (AC max. 300 V Power frequency withstand voltage power (wire - Mare) 2,5 kV @ 60 s Min. operating temperature (stakc	Cable weigth	30,8 g/m
Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 4.4 mm Tolerance outer diameter (sheath) ± 5 % Matrial wire insulation PP Amount wires 2 Outer diameter rolerance core insulation 1.4 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 28 Diameter of single wires 0.15 mm Conductor crosssection (wire) 0.5 mm ² Conductor vissesection (wire) 0.5 mm ² Conductor type (wire) strand dcass 6 Traversing distance (C-track) 10 m @ 25 °C horizontal Current load capacity (standard) to DIN VDE 298-4 Current load capacity (standard) to DIN VDE 298-4 Current load capacity min. wire 9 A Electrical resistance line constant wire 39 Q.km @ 20 °C Nominal voltage power (wire - wire) 2.5 kV @ 60 s Min. operating temperature (staic) 40 °C Max. operating temper	Material jacket	PUR
Outer-diameter (jacket) 4,4 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 2 Outer diameter insulation 1,4 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation 16 ad-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 28 Diameter of single wires 0,15 mm Conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C horizontal Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) <	Shore hardness jacket	90 ± 5 Shore A
Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 2 Outer diameter insulation 1.4 mm Outer diameter insulation 5 % Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation 70 ± 5 Shore D Amount strands (wire) 28 Diameter of single wires 0.15 mm Conductor crosssection (wire) 0.5 mm ² Material conductor wire Strand copper wire, bare Conductor type (wire) 0.5 mm ² Conductor type (wire) Strand class 6 Traversing distance (C-track) 10 m @ 25 °C horizontal Current load capacity (standard) to DIN VDE 0298-4 Quirer tiload 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 WDE 0298-4 Current load capacity (wire - wire) 2,5 kV @ 60 s Ac withstand voltage power (wire - wire) 2,5 kV @ 60 s Moninal voltage power (wire - wire) 2,5 kV @ 60 s Material v	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Material wire insulation PP Amount wires 2 Outer diameter insulation 1,4 mm Outer diameter insulation 1,4 mm Outer diameter core insulation 70 ± 5 Shore D Ingredient freeness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 28 Diameter of single wires 0,15 mm Conductor rowssection (wire) 0,5 mm ^a Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C horizontal Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) 2,5 kV @ 60 s Nomial voltage power AC max. 300 V Power frequency withstand voltage power 2,5 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C	Outer-diameter (jacket)	4,4 mm
Amount wires 2 Outer diameter insulation 1,4 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation 16ad-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 28 Diameter of single wires 0,15 mm Conductor crosssection (wire) 0,5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C horizontal Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity withstand voltage power 9 A Electrical resistance line constant wire 9 Q/km @ 20 °C Nominal voltage power AC max. 300 V Power frequency withstand voltage power 2,5 kV @ 60 s Min. operating temperature (static) -40 °C Mix. operating temperature (static) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) 25 °C O	Tolerance outer diameter (sheath)	± 5 %
Outer diameter insulation 1.4 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation Iead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 28 Diameter of single wires 0.15 mm Conductor crosssection (wire) 0.5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C horizontal Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 9 A Electrical resistance line constant wire 39 Ω/km @ 20 °C Nomian voltage power AC max. 300 V Power frequency withstand voltage power 2,5 kV @ 60 s Min. operating temperature (kite) -40 °C Max. operating temperature (kited) 40 °C Max. operating temperature (kited) 80 °C / 90 °C @ 10000 h Operation Operating temperature (kited) 80 °C / 90 °C @ 10000 h Operation <t< td=""><td>Material wire insulation</td><td>PP</td></t<>	Material wire insulation	PP
Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free Amount strands (wire) 28 Diameter of single wires 0.15 mm Conductor crossection (wire) 0.5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C horizontal Current load capacity (standard) to DIN VDE 0298-4 Current load capacity win, wire 9 A Electrical resistance line constant wire 39 Ω/km @ 20 °C Nominal voltage power AC max. 300 V Power frequency withstand voltage power (wire - wire) 2,5 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Max. operating t	Amount wires	2
Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 28 Diameter of single wires 0,15 mm Conductor crossection (wire) 0,5 mm ² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C horizontal Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 9 A Electrical resistance line constant wire 39 Ω/km @ 20 °C Nominal voltage power AC max. 300 V Power frequency withstand voltage power 2,5 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Max. operating temperature (itexed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Flame resistance Good, application	Outer diameter insulation	1,4 mm
Ingredient freeness wire insulationlead-free, cadmium-free, CFC-free, halogen-free, silicone-freeAmount strands (wire)28Diameter of single wires0,15 mmConductor crosssection (wire)0,5 mm²Material conductor wireStranded copper wire, bareConductor type (wire)strand class 6Traversing distance (C-track)10 m @ 25 °C horizontalCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)39 Ω/km @ 20 °CNominal voltage power AC max.300 VPower frequency withstand voltage power2,5 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CMax. operating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFiame resistanceUL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2chemical resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-relat	Outer diameter tolerance core insulation	± 5 %
Amount strands (wire)28Diameter of single wires0,15 mmConductor crosssection (wire)0,5 mm²Material conductor wireStranded copper wire, bareConductor type (wire)strand class 6Traversing distance (C-track)10 m @ 25 °C horizontalCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire9 AElectrical resistance line constant wire39 Ω/km @ 20 °CNominal voltage power AC max.300 VPower frequency withstand voltage power2,5 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CMax. operating temperature (static)-25 °COperating temperature (static)-25 °COperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceGood, application-related testingGasoline resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistance <t< td=""><td>Shore hardness wire insulation</td><td>70 ± 5 Shore D</td></t<>	Shore hardness wire insulation	70 ± 5 Shore D
Diameter of single wires0,15 mmConductor crosssection (wire)0,5 mm²Material conductor wireStranded copper wire, bareConductor type (wire)strand class 6Traversing distance (C-track)10 m @ 25 °C horizontalCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire9 AElectrical resistance line constant wire39 Ω/km @ 20 °CNominal voltage power AC max.300 VPower frequency withstand voltage power2,5 kV @ 60 sKir - jacket).40 °CMax. operating temperature (static).40 °CMax. operating temperature (static).25 °COperating temperature (ixed)80 °C / 90 °C @ 10000 h OperationOperating temperature (static).25 °COperating temperature min. (dynamic).25 °COperating temperature max. (dyna	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Conductor crosssection (wire)0,5 mm²Material conductor wireStranded copper wire, bareConductor type (wire)strand class 6Traversing distance (C-track)10 m @ 25 °C horizontalCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire9 AElectrical resistance line constant wire39 Q/km @ 20 °CNominal voltage power AC max.300 VPower frequency withstand voltage power2,5 kV @ 60 sAC withstand voltage power (wire - wire)2,5 kV @ 60 sMax. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOut resistanceGood, application-related testingOut resistanceGood, application-related testing<	Amount strands (wire)	28
Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C horizontal Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 9 A Electrical resistance line constant wire 39 Ω/km @ 20 °C Nominal voltage power AC max. 300 V Power frequency withstand voltage power 2,5 kV @ 60 s AC withstand voltage power (wire - wire) 2,5 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance	Diameter of single wires	0,15 mm
Conductor type (wire)strand class 6Traversing distance (C-track)10 m @ 25 °C horizontalCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)9 AElectrical resistance line constant wire99 QNominal voltage power AC max.300 VPower frequency withstand voltage power (wire - jacket)2,5 kV @ 60 sAC withstand voltage power (wire - wire)2,5 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature max. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testing DIN EN 60811-404Bending radius (fixed) <td>Conductor crosssection (wire)</td> <td>0,5 mm²</td>	Conductor crosssection (wire)	0,5 mm ²
Traversing distance (C-track)10 m @ 25 °C horizontalCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire9 AElectrical resistance line constant wire39 Ω/km @ 20 °CNominal voltage power AC max.300 VPower frequency withstand voltage power2,5 kV @ 60 sAC withstand voltage power (wire - wire)2,5 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testing DIN EN 60811-404Bending radius (fixed)	Material conductor wire	Stranded copper wire, bare
Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire9 AElectrical resistance line constant wire39 Ω/km @ 20 °CNominal voltage power AC max.300 VPower frequency withstand voltage power2,5 kV @ 60 sAC withstand voltage power (wire - wire)2,5 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (static)-40 °COperating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceSo Outer diameter	Conductor type (wire)	strand class 6
Current load capacity min. wire9 AElectrical resistance line constant wire39 Ω/km @ 20 °CNominal voltage power AC max.300 VPower frequency withstand voltage power2,5 kV @ 60 sAC withstand voltage power (wire - wire)2,5 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (itixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceSo Q, application-related testingOil resistanceSo Q, application-related testingOil resistanceGood, application-related testingOil resistanceSo Quer diameter	Traversing distance (C-track)	10 m @ 25 °C horizontal
Electrical resistance line constant wire39 Ω/km @ 20 °CNominal voltage power AC max.300 VPower frequency withstand voltage power (wire - jacket)2,5 kV @ 60 sAC withstand voltage power (wire - wire)2,5 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceSo od, application-related testingOil resistanceSo od, application-related testingOil resistanceGood, application-related testingOil resistanceSo od, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceSo od od application-related testingOil resistanceGood, application-related testingOil resistanceSo od od application-related testingOil resistanceGood, application-related testingOil resistanceSo od od application-related testingOil resistanceSo od od application-related testingOil resistanceGood application-related testingOil	Current load capacity (standard)	to DIN VDE 0298-4
Nominal voltage power AC max.300 VPower frequency withstand voltage power (wire - jacket)2,5 kV @ 60 sAC withstand voltage power (wire - wire)2,5 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceS outer diameter	Current load capacity min. wire	9 A
Power frequency withstand voltage power (wire - jacket)2,5 kV @ 60 sAC withstand voltage power (wire - wire)2,5 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceS × Outer diameter	Electrical resistance line constant wire	39 Ω/km @ 20 °C
(wire - jacket)2,5 kV @ 60 sAC withstand voltage power (wire - wire)2,5 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceS v Outer diameter	Nominal voltage power AC max.	300 V
Min. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceS × Outer diameter		2,5 kV @ 60 s
Max. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceS × Outer diameter	AC withstand voltage power (wire - wire)	2,5 kV @ 60 s
Operating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testing DIN EN 60811-404Bending radius (fixed)5 x Outer diameter	Min. operating temperature (static)	-40 °C
Operating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testing DIN EN 60811-404Bending radius (fixed)5 x Outer diameter	Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter	Operating temperature min. (dynamic)	-25 °C
chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter	Operating temperature max. (dynamic)	80 °C / 90 °C @ 10000 h Operation
Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter	Flame resistance	UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2
Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter	chemical resistance	Good, application-related testing
Bending radius (fixed) 5 x Outer diameter	Gasoline resistance	Good, application-related testing
	Oil resistance	Good, application-related testing DIN EN 60811-404
Bending radius (dynamic) 10 x Outer diameter	Bending radius (fixed)	5 x Outer diameter
	Bending radius (dynamic)	10 x Outer diameter

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: 2024-04-25

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No. of torsion cycles

2 Mio.

Torsion speed Torsion stress 35 cycles/min ± 180 °/m

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