

M12 male on back A-cod. / MSUD double valve B-10mm

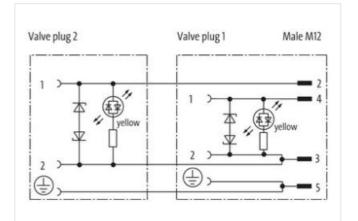
PUR 3x0.75 bk UL/CSA+drag ch. 0m

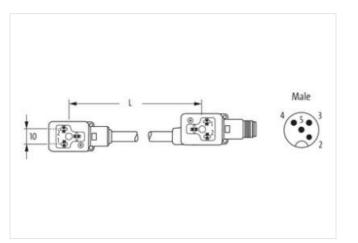
Form B (10 mm) – M12, connector at the rear 24 V AC $\pm 20\%$ / DC $\pm 25\%$ LED and suppression Connection cable L = 100 mm Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request.

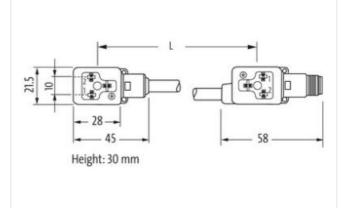
Link to Product











Product may differ from Image

Side 1 Tightening torque	0.4 Nm	
Thread	M3	
Side 2		
mation in this Product-PDF has been co	piled with the utmost care. ality of the information is restricted to gross negligence. Version: 2024-05-21	

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



Tightening torque	0,4 Nm	
Thread	M3	
Commercial data		
ECLASS-6.0	27143423	
ECLASS-6.1	27279218	
ECLASS-7.0	27279218	
ECLASS-8.0	27279218	
ECLASS-9.0	27060312	
ECLASS-10.1	27060312	
ECLASS-11.1	27060312	
ECLASS-12.0	27060312	
ETIM-5.0	EC001855	
customs tariff number	85444290	
GTIN	4048879600309	
Packaging unit	1	
Electrical data		
Drop-out delay time max.	20 ms	
Electrical data Supply		
Operating voltage AC	24 V	
Operating voltage AC min.	19,2 V	
Operating voltage AC max.	28,8 V	
Operating voltage DC	24 V	
Operating voltage DC min.	18 V	
Operating voltage DC max.	30 V	
Cut-off peak voltage max.	55 V	
Current operating per contact max.	4 A	
Current consumption max.	12 mA	
Diagnostics		
Status indication LED	yellow	
Device protection Electrical		
Degree of protection (EN IEC 60529)	IP67	
Degree of protection (ISO 20653:2013)	IP66K	
Additional condition protection degree	inserted, screwed	
Mechanical data Material data		
Color housing	black	
Material housing	Plastic	
5		
Mechanical data Mounting data		
Mounting method	inserted, screwed	
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		
wire arrangement	black 1, black 2, green-yellow	
Cable identification	636	
Cable Type	3	

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: 2024-05-21

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Jacket Color black Type of Certificate cURus Amount stranding 1 Stranding wires kveised ive arrangement black 1. black 2. groen yellow Gabin weight 56.1 g/m Material jaceat 90 ± 5 Shore A Fread-on from ingredients (jacket) 90 ± 5 Shore A Gabin weight 5.9 mm Toterance outer diameter (heam) 5.9 mm Carlander outer diameter (heam) 5.9 mm Toterance outer diameter (heam) 5.9 mm Carlander weight 5.9 mm Carlander weight 5.9 mm Carlander weight installation 1.8 5 mm Carlander weight installation 1.8 5 mm Carlander weight installation 7.1 5 Shore D Finerator size installation 7.1 5 Shore D Finerator weight installation 7.1 5 Shore D Finerator size installation 7.1 5 Shore D Finan	Printing color of wire insulation	white (isolation black)
Type of Certificate cURus Amount stranding 1 Stranding 3 wires lowisated Wire arrangement black 1, black 2, green-yellow Cable weigh 55.1 g/m Material jacket PUR Store hardness glockel 90.5 Shore A Freedom from inguedents (gacket) 5.9 mm Tolerance outer diameter (glocket) 5.9 mm Tolerance outer diameter (glocket) 5.9 mm Tolerance outer diameter (glocket) 5.9 mm Outer diameter insulation PP Amount wires 3 Outer diameter insulation 1.85 mm Outer diameter insulation 1.9 5 % Shore hardness wire insulation 1.0 5 % hore D Ingredent freeness wire insulation 1.0 5 % hore D Normal variand (wire) 4.2 % Damoter of single wires 0.15 mm Canductor orossection (wire) 0.75 mm? Canductor trype (wirei) stand cander cooper wire, bare Consultor trype (wirei) stand case 6 Normal variand (wirei) 1.0 IN VVDE 128-4 C	-	
Amount stranding 1 Stranding 3 wires twisted wires arrangement black 1, black 2, green-yellow Cable weight 55,1 g/m Matarial jacket 90 ± 5 Shore A Freedom from ingredients (jacket) black 1, black 2, green-yellow Cable weight 50 ± 5 Shore A Freedom from ingredients (jacket) black 1, black 2, green-yellow Cable advecting the strain of the strain of the strain weight black 1, black 2, green-yellow Cable advecting the strain of the strain of the strain weight black 1, black 2, green-yellow Cable advecting the strain of the st	Type of Certificate	cURus
wire arrangement black 1, black 2, green-yellow Cable weight 56, rg/m Material jacket PUR Shore hardness jacket 90, 1, 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-tree, CFC-free, halogen-free, allicone-free Duter -diameter (jacket) 5, 9 mm Tolerance outer diameter (sheath) 1, 5 % Material wire insulation 1, 85 mm Outer diameter insulation 1, 85 mm Ingredient freeness wire insulation 1, 86 mm Ingredient freeness wire insulation 1, 85 mm Constructor consecution (wire) 0, 75 mm? Conductor consecution (wire) 0, 75 mm? Conductor consecution (wire) 0, 75 mm? Conductor wire insulation 1, DIN VDE 0289.4 Constructor wire Strand elooper wire, bare Condutor consesecution (wire) 2,5 kV @ 60 s		1
Cable weight 56,1 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) 5.9 mm Tolerance outer diamater (sheat) 1.5 % Material insulation PP Amount wires 3 Outer diameter insulation 1.85 mm Outer diameter insulation 70.5 Shore D Ingredient freenees wire insulation 18.85 mm Outer diameter tolerance outer diameter tolerance outer diameter wire insulation NakeTree, cadmium-free, CFC-free, halogen-free, silicone-free Printing oolor of wire insulation White (isolation black) Amount strands (wire) Anount strands (wire) 0.75 mm ² Cadductor vire (wire) Conductor rowsection (wire) 0.75 mm ² Canductor loge (wire) Canductor loge (wire) strand class 6 Current load capacity (standard) Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) Current load capacity (standard) to DIN VDE 0298-4 Curent load capacity (wire)	Stranding	3 wires twisted
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Material jacket PUR Shore hardness jacket 90 15 Shore A Freedom from ingredients (jacket) lead free, cadmum free, CFC-free, halogen-free, silicone free Outer-diameter (jacket) 5.9 mm Tolerance outer diameter (jacket) 5.9 mm Outer diameter insulation PP Amount wises 3 Outer diameter insulation 1.85 mm Outer diameter insulation 7.5 5 Shore D Ingredient freeness wire insulation Value Material wire insulation Value Outer diameter insulation white (isolation black) Armount strands (wire) 42 Diameter of single wires 0.15 mm Conductor yor (wire) 5.7 mm² Material conductor wire Stranded copper wire, bare Conductor yor (wire) Stranded copper wire, bare Contactor type (wire) stranded copper vire, bare Contactor type (wire) Stranded copper vire, bare Conductor type (wire) Stranded copper vire, bare Contactor type (wire) Stranded copper vire, bare Contactor type (wire) Stramede copper vire, b	Cable weigth	56,1 g/m
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Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Anount wires 3 Outer diameter insulation 1,85 mm Outer diameter tolerance core insulation ± 5 % Shore hardmess wire insulation 12 \$ Shore D Ingredient freeness wire insulation wile (solation black) Amount wires 0,15 mm Conductor cossesection (wire) 0,75 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strande class 6 Nominal voltage AC max. 300 V Current load capacity (strander) 12 A Electrical resistance line constant wire 26 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power trogenymy withstand voltage (wire - (sted)) 40 °C Max. operating temperature (stalk) 80 °C / 90 °C @ 10000 h Operation U'r veistance Good, application-related testing Operating temperature max. (dynamic) -25 °C Operating temperature (ked) 80 °C / 90 °C @ 10000 h Operation U'r veistance Good, application-related testing	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Material wire insulation PP Amount wires 3 Outer diameter insulation 1.85 mm Outer diameter biolarance core insulation 1.5 % Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation kea 4-ree, cadmium-free, CFC-ree, halogen-free, silicone-free Prining color of wire insulation kead-free, cadmium-free, CFC-ree, halogen-free, silicone-free Prining color of wire insulation kead-free, cadmium-free, CFC-ree, halogen-free, silicone-free Conductor wire wire insulation kead-free, cadmium-free, CFC-ree, halogen-free, silicone-free Diameter of single wires 0.15 mm Conductor wire Stranded copper wire, bare Conductor twire Stranded copper wire, bare Conductor two equacity (stadard) to DIN VDE 0298-4 Current load capacity min. wire 12 A Electrical resistance line constant wire 26 G/km @ 20 °C AC withstand voltage (wire - reie) 2.5 kV @ 60 s Min. operating temperature (static) 40 °C Min. operating temperature (static) 40 °C Min. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation <td< td=""><td>Outer-diameter (jacket)</td><td>5,9 mm</td></td<>	Outer-diameter (jacket)	5,9 mm
Amount wires 3 Outer diameter insulation 1,85 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation T0 ± 5 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Printing color of wire insulation white (isolation black) Amount strands (wire) 42 Dameter of single wires 0,15 mm Conductor crosssection (wire) 0,75 mm ³ Material conductor wire Stranded copper wire, bare Conductor drype (wire) strand class 5 Nominal voltage AC max. 300 V Current load capacity min. wire 12 A Electrical resistance line constant wire 26 Dkm @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - wire) 2,5 kV @ 60 s Min. operating temperature (fixed) 40 °C Max. operating temperature (fixed) 40 °C Max. operating temperature (fixed) 40 °C Min. operating temperature (fixed) 40 °C Miscance Did K NIS 04382-2 A Flame resistance Electrical testing Oliv resistance Good, application-related testing Oliv resistance Good, application-related testing	Tolerance outer diameter (sheath)	±5%
Outer diameter insulation 1.85 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation ked:/rec, cadmium-free, CFC-free, halogen-free, silicone-free Printing color of wire insulation while (isolation black) Amount strands (wire) 42 Diameter of single wires 0.15 mm Conductor cossesction (wire) 0.75 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max. 000 V Current load capacity (standard) to DIN VDE 0298-4 Miteris	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, silicone-free Printing color of wire insulation while (isolation black) Amount strands (wire) 42 Diameter of single wires 0,15 mm Conductor crosssection (wire) 0,75 mm² Material conductor wire Stranded copper wire, bare Conductor tropssection (wire) strand class 6 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 (wire - wire) 2,5 kV @ 60 s AC withstand voltage (wire - wire) 2,5 kV @ 60 s Min: operating temperature (static) -40 °C Max. 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 UV resistance EC 60332-22 U Li 1581 \$ 110 FT2 UL 1581 \$ 1090 chemical resistance Good, application-relat	Amount wires	3
Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Printing color of wire insulation white (isolation black) Amount Strands (wire) 42 Diameter of single wires 0,15 mm Conductor wire (wire) 9,75 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max. 300 V Current load capacity (strandard) to DIN VDE 0298-4 Current load capacity (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - 2,5 kV @ 60 s Power frequency withstand voltage (wire - 40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature (fixed) 80 °C / 90 °C @ 100000	Outer diameter insulation	1,85 mm
Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free Printing color of wire insulation while (isolation black) Amount strands (wire) 42 Diameter of single wires 0,15 mm Conductor cossection (wire) 0,75 mm ⁹ Material conductor wire Stranded copper wire, bare Conductor type (wire) stranded copper wire, bare Conductor type (wire) stranded copper wire, bare Conductor type (wire) stranded copper wire, bare Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - vire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - 2,5 kV @ 60 s 2,5 kV @ 60 s Max. operating temperature (static) -40 °C Max. operating temperature (static) -25 °C Operating temperature (static) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance EIC 60332-22 A Flame resistance GE 60332-22 A Flame resistance Good, application-related testing <tr< td=""><td>Outer diameter tolerance core insulation</td><td>±5%</td></tr<>	Outer diameter tolerance core insulation	±5%
Printing color of wire insulation white (isolation black) Amount strands (wire) 42 Diameter of single wires 0.15 mm Conductor crossection (wire) 0,75 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 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) 26 Ω/km @ 20 °C AC withstance line constant wire 12 A Electrical resistance line constant wire 2,5 kV @ 60 s Power frequency withstand voltage (wire - size AV @ 60 s stand class 6 Min. operating temperature (static) -40 °C Max. operating temperature (keet) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating temperature min. (dynamic) -25 °C Operating temperature min. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance Good. application-related testing Gasoline resistance Good. application-related testing Gasoline resistance Good. application-related testing	Shore hardness wire insulation	70 ± 5 Shore D
Amount strands (wire)42Diameter of single wires0,15 mmConductor vireStranded copper wire, bareConductor vireStrande dass 6Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity wire26 Ωkm @ 20 °CAC withstand voltage (wire - wire)2.5 kV @ 60 sPower frequency withstand voltage (wire - jacket)2.5 kV @ 60 sNin. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CVI resistanceDIN EN ISO 4892-2 AFlame resistanceIEC 60332-2 i UL 1581 § 1100 FT2 I UL 1581 § 1090Chernical resistanceGood, application-related testingGasoline resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testing	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Amount strands (wire) 42 Diameter of single wires 0,15 mm Conductor crossection (wire) 0,75 mm² Material conductor wire Stranded copper wire, bare Conductor ty (wire) strand class 6 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) 26 Ωkm @ 20 °C AC withstance line constant wire 26 Ωkm @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - glacket) -40 °C Max. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Ver resistance B0 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating temperature min. (dynamic) -25 °C Order esistance IEC 60332-22 IUL 1581 § 1100 FT2 IUL 1581 § 1090 cheme resistance Good. application-related testing Gasoline resistance Good. application-related testing Oil resistance Good. application-related testing Oil resistance	-	
Conductor crosssection (wire) 0,75 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max. 300 V Current Load capacity (standard) to DIN VDE 0298-4 Current Load capacity (standard) to DIN VDE 0298-4 Current Load capacity (standard) to DIN VDE 0298-4 Current Load capacity (standard) 2.5 kV @ 60 s Power frequency withstand voltage (wire - wire) 2.5 kV @ 60 s Power frequency withstand voltage (wire - standard) 2.5 kV @ 60 s Max. operating temperature (static) -40 °C Max. operating temperature (static) -25 °C Operating temperature (static) 80 °C / 90 °C @ 10000 h Operation UV re	Amount strands (wire)	42
Conductor crosssection (wire) 0,75 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max. 300 V Current Load capacity (standard) to DIN VDE 0298-4 Current Load capacity (standard) to DIN VDE 0298-4 Current Load capacity (standard) to DIN VDE 0298-4 Current Load capacity (standard) 2.5 kV @ 60 s Power frequency withstand voltage (wire - wire) 2.5 kV @ 60 s Power frequency withstand voltage (wire - standard) 2.5 kV @ 60 s Max. operating temperature (static) -40 °C Max. operating temperature (static) -25 °C Operating temperature (static) 80 °C / 90 °C @ 10000 h Operation UV re	Diameter of single wires	0,15 mm
Conductor type (wire) strand class 6 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 12 A Electrical resistance line constant wire 26 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - iacket) -40 °C Min. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Operating temperature min. (dynamic) -25 °C Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Flame resistance IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance Good, application-related testing Bending radius (fixed) 5 × Outer diameter No. of bending cycles (C-track) 10 Mio. @ 25 °C		0,75 mm ²
Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 12 A Electrical resistance line constant wire 26 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2.5 kV @ 60 s Power frequency withstand voltage (wire - iacket) 40 °C Min. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Operating temperature (invertion) 80 °C / 90 °C @ 10000 h Operation Operating temperature (invertion) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Flame resistance IEC 60332-2 2 UL 1581 § 1100 FT2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing No. of bending cycles (C-track) 10 Nio. @ 25 °C Traversing distance (C-track	Material conductor wire	Stranded copper wire, bare
Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 12 A Electrical resistance line constant wire 26 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - action residence) 2,5 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Operating temperature (ixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Flame resistance IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 × Outer diameter Bending radius (dynamic) 10 x Outer diameter Bending radius (dynamic) 10 Mio. @ 25 °C Traversing distance (C-track) 10 Mio. @ 25 °C	Conductor type (wire)	strand class 6
Current load capacity min. wire12 AElectrical resistance line constant wire $26 \Omega/km @ 20 °C$ AC withstand voltage (wire - wire) $2,5 kV @ 60 s$ Power frequency withstand voltage (wire - jacket) $2,5 kV @ 60 s$ Min. operating temperature (static) $-40 °C$ Max. operating temperature (fixed) $80 °C / 90 °C @ 10000 h Operation$ Operating temperature max. (dynamic) $-25 °C$ Operating temperature max. (dynamic) $80 °C / 90 °C @ 10000 h Operation$ UV resistanceDIN EN ISO 4892-2 AFlame resistanceIEC 60332-2-2 [UL 1581 § 1100 FT2] UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingDi vouter diameterNo. of bending radius (fixed)Bending radius (dynamic)10 Kio @ 25 °CTraversing distance (C-track)10 m @ 25 °C I horizontalTraversing distance (C-track)3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress $\pm 180 °/m$	Nominal voltage AC max.	300 V
Electrical resistance line constant wire 26 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - jacket) 2,5 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Flame resistance IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance IO x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 10 m @ 25 °C Traversing distance (C-track) 10 m @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 1	Current load capacity (standard)	to DIN VDE 0298-4
AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - jacket) 2,5 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (ised) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) -25 °C Operating temperature max. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Flame resistance BEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090 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 Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 10 Mio. @ 25 °C Traversing distance (C-track) 10 m @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Current load capacity min. wire	12 A
Power frequency withstand voltage (wire - jacket)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 OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceIEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingNo. of bending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)10 m @ 25 °CTraversing distance (C-track)10 m @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m		26 Ω/km @ 20 °C
jacket) 2.5 W @ b0 s Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Flame resistance IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing No. of bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 10 Mio. @ 25 °C Traversing distance (C-track) 10 m @ 25 °C horizontal Travel speed (C-track) 3 m/s @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m <	AC withstand voltage (wire - wire)	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 OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceIEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingNo. of bending cycles (C-track)10 Nio. @ 25 °CTraversing distance (C-track)10 m @ 25 °C horizontalTravel speed (C-track)3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m		2,5 kV @ 60 s
Operating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceIEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingDin @ 25 °C10 x Outer diameterBending radius (dynamic)10 Mio. @ 25 °CTraversing distance (C-track)10 m @ 25 °C horizontalTravel speed (C-track)3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	Min. operating temperature (static)	-40 °C
Operating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceIEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testing DIN EN 60811-404Bending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)10 Mio. @ 25 °CTraversing distance (C-track)10 m @ 25 °C horizontalTravel speed (C-track)3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
UV resistanceDIN EN ISO 4892-2 AFlame resistanceIEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingDin resistanceGood, application-related testingOil resistanceGood, application-related testingDin x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)10 m@ 25 °CTraversing distance (C-track)10 m@ 25 °C horizontalTravel speed (C-track)3 m/s@ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	Operating temperature min. (dynamic)	-25 °C
Flame resistanceIEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testing DIN EN 60811-404Bending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)10 Mio. @ 25 °CTraversing distance (C-track)10 m @ 25 °C horizontalTravel speed (C-track)3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	Operating temperature max. (dynamic)	80 °C / 90 °C @ 10000 h Operation
chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testing DIN EN 60811-404Bending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)10 Mio. @ 25 °CTraversing distance (C-track)10 m @ 25 °C horizontalTravel speed (C-track)3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	UV resistance	DIN EN ISO 4892-2 A
Gasoline resistanceGood, application-related testingOil resistanceGood, application-related testing DIN EN 60811-404Bending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)10 Mio. @ 25 °CTraversing distance (C-track)10 m @ 25 °C horizontalTravel speed (C-track)3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	Flame resistance	IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090
Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 10 Mio. @ 25 °C Traversing distance (C-track) 10 m @ 25 °C horizontal Travel speed (C-track) 3 m/s @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	chemical resistance	Good, application-related testing
Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 10 Mio. @ 25 °C Traversing distance (C-track) 10 m @ 25 °C horizontal Travel speed (C-track) 3 m/s @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Gasoline resistance	Good, application-related testing
Bending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)10 Mio. @ 25 °CTraversing distance (C-track)10 m @ 25 °C horizontalTravel speed (C-track)3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	Oil resistance	Good, application-related testing DIN EN 60811-404
No. of bending cycles (C-track) 10 Mio. @ 25 °C Traversing distance (C-track) 10 m @ 25 °C horizontal Travel speed (C-track) 3 m/s @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Bending radius (fixed)	5 x Outer diameter
Traversing distance (C-track)10 m @ 25 °C horizontalTravel speed (C-track)3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	Bending radius (dynamic)	10 x Outer diameter
Travel speed (C-track)3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m		10 Mio. @ 25 °C
No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Traversing distance (C-track)	10 m @ 25 °C horizontal
Torsion stress ± 180 °/m	Travel speed (C-track)	3 m/s @ 25 °C
	No. of torsion cycles	2 Mio.
Torsion speed 35 cycles/min	Torsion stress	± 180 °/m
	Torsion speed	35 cycles/min

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: 2024-05-21

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