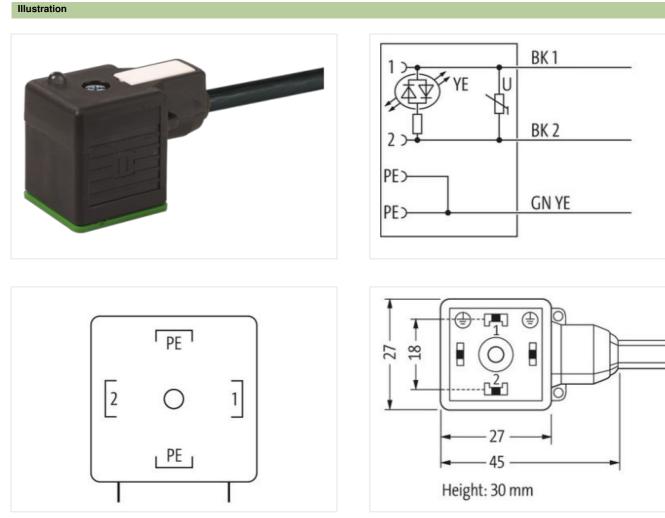


MSUD valve plug A-18mm with cable

PUR 3x0.75 bk UL/CSA+drag ch. 7.5m

MSUD Form A (18 mm) 230 V AC/DC ±10% LED and suppression 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

Side 1

7,5 m

Tightening torque

0,4 Nm

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: 2024-05-20

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Mounting method	inserted, screwed
Family construction form	MSUD A
Thread	M3
Material	PBT
Degree of protection (EN IEC 60529)	IP67
Commercial data	
ECLASS-6.0	27279218
ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0	27060311
ECLASS-10.1	27060312
ECLASS-11.1	27060312
ECLASS-12.0	27060312
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879192224
Packaging unit	1
Electrical data	
Capacity CX	20 ms
Electrical data Supply	
Operating voltage AC	230 V
Operating voltage AC min.	200 V 207 V
Operating voltage AC max.	253 V
Operating voltage DC	230 V
Operating voltage DC min.	207 V
Operating voltage DC max.	253 V
Cut-off peak voltage max.	560 V
Current operating per contact max.	4 A
Installation Connection	
Mounting set	M3
Device protection Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Mechanical data Material data	
Coating of fitting	verzinkt
Color housing	black
Material housing	Plastic
Material screw connection	Steel
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.
	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be
Note on bending radius	endangered by excessive bending forces.
Installation Cable	
Cable identification	636

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Printing outlor of whe insulation white (isolation black) Jacket Color black Type of Certificate cURus Amount stranding 1 Stranding 3 wrise livisled wire arrangement black 1, Jack 2, green -yellow Cable weigh 56, 1 g/m Material jacked PUR Strow hardness jacked PUR Strow hardness jacked 90 ± 5 Strore A Freedom trom ingredients (jacket) 15 % Material warks insulation PP Amount stranding 1 % Material wark insulation PP Amount wires 3 Outer diameter insulation 1.85 mm Outer diameter insulation 1.85 mm Outer diameter insulation 1.84 fee, cadmium-free. CFC-free, halogen-free, silicome-free Printing color of wire insulation 1.84 fee, cadmium-free. CFC-free, halogen-free, silicome-free Printing color of wire insulation 1.84 fee, cadmium-free. CFC-free, halogen-free, silicome-free Printing color of wire insulation 1.84 fee, cadmium-free. CFC-free, halogen-free, silicome-free Printing color of wire insulati	Cable Type	3
Type of Certificate oURus Arnout stranding 1 Arnout stranding 1 Stranding 9 vices twisted wire arrangement black 1, black 2, green-yellow Calib weigh 55 1 g/m Material jacket PUR Shore hardness jackel 90 5 Shore A Freedom Troin Ingredients (jackel) 5 9 mm Tolerance outer diameter (jackel) 5 % mm Material vice insulation PP Annout, Wins 3 Outer diameter insulation 18 5 mm Outer diameter insulation 70 ± 5 Shore D Ingredient freezes wire insulation 70 ± 5 Shore D Ingredient freezes wire insulation 70 ± 5 Shore D Ingredient freezes wire insulation 70 ± 5 Shore D Nouth wire insulation Nute (isolation back) Annunt strands (isolation back) Annout Wire (isolation back) Nouth wire insulation 10 m 0 25 °C horizontal Nouth wire insulation 0.0 V Consultor type (wire) 3.15 mm Conductor wire S.5 Mome Consul	Printing color of wire insulation	white (isolation black)
Amount atranding 1 Stranding 3 wire britted Stranding 3 wire britted Stranding 56.1 g/m Stranding 56.1 g/m Material jacket PUR Shore hardness jacket 90.4 5 Shore A Freedom from ingredients (jacket) lead-free, cadinum-free, CFC-free, halogen-free, silicone-free Outer-dimeter (jacket) 1.5 % Material wei insulation PP Amount wise 3 Outer diameter insulation 1.68 mm Outer diameter insulation 7.0 f 5 Nro D Shore hardness wire insulation 7.0 f 5 Shore D Printing color divers insulation 7.0 f 5 Shore D Printing color divers insulation 7.0 f 5 Shore D Printing color divers insulation white (solation black) Amount strands (wire) 42 Diameter of single wires 0.15 mm Conductor consection (wire) 0.75 mm ² Traversing diatance (C+ track) 1.0 m @ 25 °C [horizontal Nominal voltape AG max. 30.0 V Conductor type (wire) strand clase 6 </td <td>Jacket Color</td> <td>black</td>	Jacket Color	black
Stranding 3 wires twisted Stranding 3 wires twisted wire arrangement black 1, black 2, green-yellow Cabbe weigh 51 f p/m Material jacket PUR Shore hardness jacket 90 f 5 Shore A Freedom from ingredients (jacket) 5.9 mm Tolerance outer diameter (sheath) 4 5 %. Material wire insulation PP Amount wires 3 Older diameter insulation 18 8 mm Older diameter insulation 18 8 mm Older diameter insulation 18 8 mm Older diameter insulation 70 f 5 Shore D Ingredient freeness wire insulation 18 8 mm Outer diameter insulation white (isolation black) Amount strands (wire) 42 Dimeter of single wires 0.15 mm Conductor wire Stranded capper wire, bare Conductor wire Stranded capper wire, bare Conductor wire Stranded capper wire, bare Conductor wire Strande cappet wire, bare Controlt told cappacity (standard) to m @ 25 °C norizontal	Type of Certificate	cURus
wire arangement black 1, black 2, green yellow Cable weight 56,1 g/m Material jackat PUR Shore hordness jackat 90.5 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium free, CPC-free, halogen-free, silicone-free Outer diameter (jacket) 5.9 mm Tolerance outer diameter (instaltion 5.9 mm Outer diameter insulation PP Amount wires 3 Outer diameter insulation 1.85 mm Outer diameter insulation 70.1 5 Shore D Ingredient freeness wire insulation 70.2 5 Shore D Ingredient freeness wire insulation 70.1 5 Shore D Ingredient freeness wire insulation 1.85 mm Outer diameter toris insulation 70.1 5 Shore D Ingredient freeness wire insulation 10.85 mm Outack or single wires 0.15 mm Conductor trave insulation 0.75 mm ² Diameter of single wires 0.15 mm Conductor trave insulation 10 m @ 25 °C I hontzental Nominal Voltage AC max. 300 V Contrent load capapoly min. wire 12 A	Amount stranding	1
Gable 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, allicone-free Outer diameter (jacket) ± 5 % Outer diameter (jacket) ± 5 % Anount wires 3 Outer diameter insulation 1,85 mm Outer diameter insulation ± 5 % Shore hardness wire insulation ± 5 % Shore hardness wire insulation ± 5 % Shore hardness wire insulation 1.95 mm Outer diameter tolerance outer for sulation ± 5 % Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeses wire insulation while (isolation back) Anount stands (wire) 42 Dameter of aingle wires 0.15 mm Conductor rype (wire) strand class 6 Traversing distance (C+rack) 10 m @ 25 °C [horizontal Nominal voltage AC max. 300 V Current load capacity min.wire 12 A Electrical resistance line constant wire (stack) 10 m Ø 25 °C [horizontal <tr< td=""><td>Stranding</td><td>3 wires twisted</td></tr<>	Stranding	3 wires twisted
Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedon from ingredients (jacket) 190 ± 5 Shore A Freedon from ingredients (jacket) 5.9 mm Tolerance outer diameter (jacket) 5.9 mm Material wire insulation PP Amount wires 3 Outer diameter insulation 1.85 mm Outer diameter insulation 1.95 % Material wire insulation 1.85 mm Outer diameter insulation 1.85 % Shore hardness wire insulation 1.85 mm Outer diameter trive insulation 1.85 % Shore hardness wire insulation 1.85 % Diameter of single wires 0.15 mm Conductor crossection (wire) 0.75 mm² Material conductor wire Stranded capper wire, bare Conductor type (wire) strand class 6 Traversing distance (Lrtack) 10 m @ 25 °C hortzontal Nominal voltage (Kreac) 10 m @ 25 °C hortzontal Nominal voltage (Wrei 2.5 KV @ 60 s Opwarr foquery withsland voltage (Wrei 2.5 KV @ 60 s Naka operating temperat	wire arrangement	black 1, black 2, green-yellow
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 wre insulation PP Amount wrees 3 Outer diameter insulation 1.85 mm Quter diameter insulation 1.85 mm Outer diameter insulation 1.85 mm Norunt strands (wei insulation 1.85 mm Conductor treeness wire insulation 1.84 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 crosssection (wire) 0.75 mmP Material conductor wire Stranded copper wire, bare Conductor vise (C-track) 10 m @ 25 °C horizontal Nominal votage (AC max. 000 V Current load capacity (strandard) to DIN VDE (0289.4 Current load capacity (Cable weigth	56,1 g/m
Preedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 5,9 mm Torlerance outer diameter (sheath) 1 5 % Material wire insulation PP Amount wires 3 Outer diameter torlerance core insulation 1.85 mm Outer diameter torlerance core insulation 70 ± 5 Shore D Ingredient freeness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation white (solation black) Amount stands (wire) 42 Diameter of single wires 0,15 mm Conductor crossection (wire) 0,75 mm² Conductor vires section (wire) Stranded copper wire, bare Conductor vires escetion (wire) stranded copper wire, bare Conductor vires wires Stranded copper wire, bare Conductor vires wires stranded capacity min. wire Taversing distance (C-track) 10 m @ 25 °C (horizontal Nominal voltage AC max. 300 V Current load capacity min. wire 12 A Electrical resistance line constant wire 26 DArm @ 20 °C AC withstand voltage (wire - wire)	Material jacket	PUR
Outer-diameter (jacket) 5,9 mm Tolerance outer diameter (sheath) 15 % Material wire insulation PP Amount wires 3 Outer diameter trisulation 1,85 mm Outer diameter insulation 15 % Shore hardness wire insulation 10 5 Shore D Ingredient Teeness 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 rossection (wire) 0,75 mm ² Conductor vipe Stranded copper wire, bare Conductor vipe (wire) strand class 6 Traversing distance (Ctrack) 10 m @ 25 °C (horizontal Nominal voltage AG max 300 V Current load capacity (standard) to DIN VDE 0298-4 Curent load capaci	Shore hardness jacket	90 ± 5 Shore A
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 hardness wire insulation 70 ± 5 Shore D Ingredient feeness wire insulation Web (solation black) Amount strands (wire) 42 Diameter of singe wires 0.15 mm Conductor crosssection (wire) 0.75 mm² Material conductor wire Stranded cooper wire, bare Conductor yee (wire) 5 for (brizontal) Normal oblage (wire) 0.75 mm² Conductor yee (wire) Stranded cooper wire, bare Courrent load capacity min, wire 12 A Electrical resistance line constant wire	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 insulation 1.85 mm Outer diameter insulation 1.85 mm Outer diameter insulation 70.1.5 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Prining color of wire insulation while (solation black) Amount strands (wire) 42 Diameter of single wires 0.15 mm Conductor crossocition (wire) 0.75 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C horizontal Nomial votage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4	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 1 ± 5 Nore 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 cossection (wire) 0.75 mm ³ Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C horizontal Nominal voltage AC max. 300 V 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 Max. operating temperature (static) -40 °C Max. operating temperature (min. (mannic) -25 °C Operating temperature (min. (mannic) <	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 Impredient Theoress 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 crosssection (wire) 0,75 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C horizontal 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 (wine - wire) 2.5 KV @ 60 s Power frequency withstand voltage (wire - isick) 40 °C Max. operating temperature (static) 40 °C Agakti 60 °C / 90 °C @ 10000 h Operation Operating temperature (static) 80 °C / 90 °C @ 10000 h Operation Operating temperature (static) 80 °C / 90 °C @ 10000 h Operation	Material wire insulation	PP
Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation water (e., 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 crosssection (wire) 0.75 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strande class 6 Traversing distance (C-track) 10 m @ 25 °C horizontal Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 2098-4 Current load capacity (wire - wire) 2.5 kV @ 60 s Power frequency withstand voltage (wire - vire) 2.5 kV @ 60 s Jacket) -40 °C Max. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Max. operating temperature max. (dynamic) 25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation U'r esistance EC 60332-22 / UL 1581 § 1100 FT2 UL 1581 § 1090	Amount wires	3
Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free Printing color of wire insulation while (solation 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 type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C horizontal Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 029 °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 (static) -40 °C Max. operating temperature (static) -25 °C Op	Outer diameter insulation	1,85 mm
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 crosssection (wire) 0.75 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C horizontal 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) 2,5 kV @ 60 s Power frequency withstand voltage (wire - 25,5 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Querating temperature min. (dynamic) -25 °C Operating temperature min. (dynamic) 00 °C /9 °C @ 10000 h Operation U	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 crosssection (wire) 0,75 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C horizontal 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 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 - lack) 2,5 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Deparating temperature (static) -25 °C Operating temperature (static) -25 °C Operating temperature (static) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Flame resistance IEC	Shore hardness wire insulation	70 ± 5 Shore D
Amount strands (wire) 42 Diameter of single wires 0,15 mm Conductor crosssection (wire) 0,75 mm ² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C horizontal Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Cibristand voltage (wire - wire) 2.5 kV @ 60 s Power frequency withstand voltage (wire - alcket) -40 °C Max. operating temperature (static) -40 °C Max. operating temperature (static) -60 °C (90 °C @ 10000 h Operation Operating temperature (static) -80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A <t< td=""><td>Ingredient freeness wire insulation</td><td>lead-free, cadmium-free, CFC-free, halogen-free, silicone-free</td></t<>	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Diameter of single wires0,15 mmConductor crosssection (wire)0,75 mm²Material conductor wireStranded copper wire, bareConductor type (wire)strand class 6Traversing distance (C-track)10 m @ 25 °C horizontalNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298.4Current load capacity (standard)to DIN VDE 0298.4Current load capacity min. wire12 AElectrical resistance line constant wire26 0/km @ 20 °CAC withstand voltage (wire - wire)2,5 kV @ 60 sPower frequency withstand voltage (wire - jacket)2,5 kV @ 60 sPower frequency withstand voltage (wire - jacket)2,5 kV @ 60 sOperating temperature (static)-40 °CMax. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature (min. (dynamic))-25 °COperating temperature min. (dynamic)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceIE 660332-22 UL 1581 § 1100 FT2 UL 1581 § 1090chemical resistanceGood, application-related testingGasoline 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 diameterTravel speed (C-track)10 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress <td< td=""><td>Printing color of wire insulation</td><td>white (isolation black)</td></td<>	Printing color of wire insulation	white (isolation black)
Conductor crosssection (wire) 0,75 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C horizontal Nominal voltage AC max. 300 V Current Load capacity (standard) to DIN VDE 0298-4 Conductor wire 2.5 kV @ 60 s Power frequency withstand voltage (wire - wire) 2.5 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Max. operating temperature max. (dynamic) 25 °C Operating temp	Amount strands (wire)	42
Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C horizontal Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) 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 - isother extraint) 2,5 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Max. 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 IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oli resistance Good, application-related testing Oli resistance Good, application-related testi	Diameter of single wires	0,15 mm
Conductor type (wire)strand class 6Traversing distance (C-track)10 m @ 25 °C horizontalNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire12 AElectrical resistance line constant wire26 Ω/km @ 20 °CAC withstand voltage (wire - wire)2,5 kV @ 60 sPower frequency withstand voltage (wire - jacket)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 (static)-25 °COperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)20 °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 testingDi ravel speed (C-track)10 Nic. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	Conductor crosssection (wire)	0,75 mm ²
Traversing distance (C-track)10 m @ 25 °C horizontalNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire12 AElectrical resistance line constant wire26 Ω/km @ 20 °CAC withstand voltage (wire - wire)2,5 kV @ 60 sPower frequency withstand voltage (wire - jacket)2,5 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CMax. operating temperature (wire)2,5 °COperating temperature (ixed)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceEC 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 testing DIN EN 60811-404Bending radius (fixed)5 x Outer diameterBending radius (fixed)5 x Outer diameterTravel speed (C-track)10 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	Material conductor wire	Stranded copper wire, bare
Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire12 AElectrical resistance line constant wire26 Q/km @ 20 °CAC withstand voltage (wire - wire)2,5 kV @ 60 sPower 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 testingDin S × Outer diameterBending radius (fixed)5 × Outer diameterTravel speed (C-track)10 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	Conductor type (wire)	strand class 6
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 - jacket) -40 °C 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 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 I 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 Oli resistance Good, application-related testing Oil resi	Traversing distance (C-track)	10 m @ 25 °C horizontal
Current load capacity min. wire12 AElectrical resistance line constant wire26 Ω/km @ 20 °CAC withstand voltage (wire -2,5 kV @ 60 sPower frequency withstand voltage (wire -2,5 kV @ 60 sPower frequency withstand voltage (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 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 torsion cycles2 Mio.Torsion stress± 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 I 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	Current load capacity (standard)	to DIN VDE 0298-4
AC withstand voltage (wire - wire)2,5 kV @ 60 sPower 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-	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 testingDi resistanceS × Outer diameterTravel speed (C-track)10 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress±	Electrical resistance line constant wire	26 Ω/km @ 20 °C
jacket)2.5 NV @ 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 testingDi volter diameterTravel speed (C-track)Travel speed (C-track)10 Mio. @ 25 °CNo. of torsion cycles2 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 testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingDin gradius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterTravel speed (C-track)10 Mio. @ 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 testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingDi resistanceGood, application-related testingOil resistanceGood, application-related testingDi vouter diameterTravel speed (C-track)Travel speed (C-track)10 Mio. @ 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 testingDIN EN 60811-404Bending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterTravel speed (C-track)10 Mio. @ 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 testing DIN EN 60811-404Bending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterTravel speed (C-track)10 Mio. @ 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 diameterTravel speed (C-track)10 Mio. @ 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 diameterTravel speed (C-track)10 Mio. @ 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 diameterTravel speed (C-track)10 Mio. @ 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 Travel speed (C-track) 10 Mio. @ 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 Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Gasoline resistance	Good, application-related testing
Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Oil resistance	Good, application-related testing DIN EN 60811-404
Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Bending radius (fixed)	5 x Outer diameter
No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Bending radius (dynamic)	10 x Outer diameter
Torsion stress ± 180 °/m	Travel speed (C-track)	10 Mio. @ 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: 2024-05-20

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