

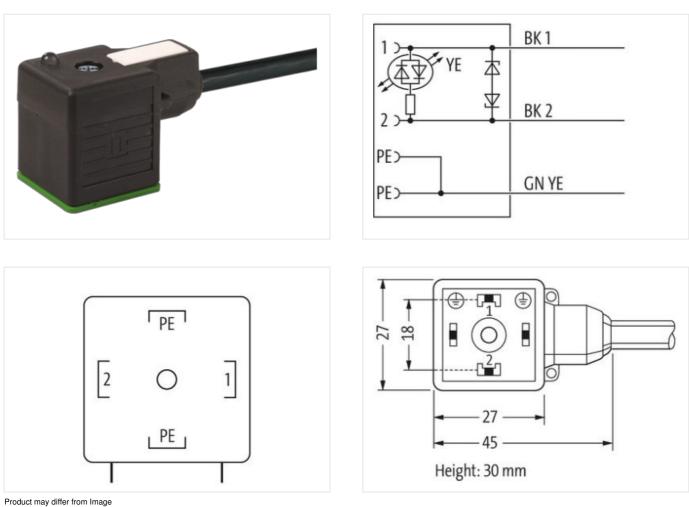
## MSUD valve plug A-18mm with cable

PUR 3x0.75 bk UL/CSA+drag ch. 5m

MSUD Form A (18 mm) 24 V AC ±20% / DC ±25% LED and suppression Bridged PE 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

Illustration





Cable length

5 m

Side 1

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: 2024-04-27

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Tightening torque	0,4 Nm
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	4048879193481
Packaging unit	1
Electrical data	
Capacity CX	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.	15 mA
Diagnostics	
Status indication LED	yellow
Installation   Connection	
Mounting set	M3
Device protection   Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	0,8 kV
Material group (IEC 60664-1)	I
Additional suppressor	Diode, Z-Diode
Mechanical data   Material data	
Coating locking	verzinkt
Coating of fitting	verzinkt
Color housing	black
Material gasket	PUR
Locking material	Steel
Material screw connection	Steel
Mechanical data   Mounting data	
Mounting method	inserted, screwed
Environmental characteristics   Climati	ic

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Cynelling inspectation mix.     65 °C       Additional condition temperature range     depending on cable quality       Rabilise information temperature range     656       Cable information temperature range     While (solitation black)       Jacket Cobr     black       Type of Centradic     CUBus       Anount transding     1       Stransing     Stransing       Vine arrangement     black 1, black 2, green-yellow       No. of banding cycles (C-track)     10.06 @ 25 °C       Cable weight     56.1 grm       Cable weight     56.1 grm       Cable weight     56.1 grm       Cable densition from ingredients (solitation     90.5 Stron A       Freedom from ingredient (solitation     55.1 grm       Cable densition indication     70.5 grm       Cable densition indication     70.5 grm       Cable densition indication     70.5 Strone A       Freedom from indication	Operating temperature min.	-25 °C
Additional condition temperature range depending on cable quality installation (Cable     Cable installation     Cable installation		
Institution ( Cable       Cable Institution     666       Cable Type     3       Printing color of wire Insulation     White ( cablion black)       Locked Color     black       Type of Carificate     culPus       Arround stranding     1       Nor of branding cypes (C-track)     10 Mole Q: 57 O       Cable weigh     56,1 pim       Material Locket     PUR       Store branding cypes (C-track)     10 Mole Q: 57 O       Cable weigh     56,1 pim       Material Locket     PUR       Store branding cypes (C-track)     10 Store A       Freedom from Ingredients (Locket)     92 F S Store A       Freedom from Ingredients (Locket)     59 mm       Outer diameter (cheath)     5 S Store A       Toterance core insulation     97 F S Store A       Toterance core insulation     10 S m       Outer diameter from ingredients (Locket)     4 S %       Store hardness weir insulation     4 S %       Darder diameter insulation     4 S %       Cord color weir insulation     4 S %       Store fordores wein insulation     4 S % <td< td=""><td></td><td></td></td<>		
Cable identification     638       Cable Type     3       Cable Type     3       Printing color of wite insultation     white (isolation black)       Jacket Color     black       Type of Cartificate     cURus       Annual stranding     1       Stranding     wites twisted       Wite arrangement     black 1. black 2. groon yollow       Ne. of bending cycles (C-track)     10 Mo. @ 25 °C       Cable weight     56, 1 g/m       Material Lack     9 L 5 Shore A       Freedom from ingredients (schell)     1 a 5 %       Material ware insultation     PUF       Arround transchellers (schell)     1 a 5 %       Material ware insultation     PP       Arround transchellers (schell)     1 a 5 %       Shore hardness wire insultation     7 b 5 % Pro       Darder dimeter biorance core insultation     7 b 5 %       Shore hardness wire insultation     7 b 5 % Pro       Shore hardness wire insultation     7 b 5 % Pro       Darater of angle wires     0 15 mm       Cord ductor increases wire insultation     1 b 5 %       Materid and angle (C-t		depending on cable quality
Gabb Type     9       Printing coir of wire insulation     white (isolation black)       Jacket Color     black       Type of Carificate     JURus       Amount stranding     1       Stranding     3 wires missied       Wire arrangement     black 1, black 2, groen yellow       No. of bending cycles (C+track)     10 Mo. @ 25 °C       Cable weigh     55.1 g/m       Material jacket     PUR       Shore hardness jacket     90 ± 5 Shore A       Freedom from ingredients (jacket)     5.8 m       Catale weigh     5.8 m       Talerance cuter diameter (instalt)     4.5 %       Material jacket     PUR       Amount wiref     3       Outer diameter instalton     PP       Amount wiref     3       Outer diameter instalton     1.8 fram       Outer diameter instalton     7.0 ± 5 %       Shore hardness wire instalton     7.0 ± 5 %       Marcel alarket (operance core insulaton     4.5 %       Material and wire insulaton     7.0 ± 5 %       Parent strand bis wire insulaton     9.0 ± 5 %       Dancet		
Printing color of wire insulation     white (solation black)       Jackat Color     black       Type of Cafficate     URJus       Amount stranding     1       Stranding     Swise Nvisted       wire arrangement     black 1, black 2, green-yellow       No. of bonding cycles (C+track)     10 Mio. @ 25 °C       Cable weigh     56, 1 g/m       Material jacket     90 ± 5 Shore A       Freedom from ingredients (jacket)     5.9 m       Cater diameter (indexti)     5.9 m       Order andmeter (indexti)     5.9 m       Cater diameter (indexti)     5.9 m       Cater diameter (indextion)     1.85 m       Cater diameter induction     1.85 mm       Cater diameter induction     1.85 mm       Cater diameter insulation     7.9 5 Shore D       Ingredient freeness wire insulation     1.95 %       Shore hardress wire insulation     1.95 % Shore D       Ingredient freeness wire insulation     1.95 % Shore D       Carded conger wire, shore on insulation     1.95 % Shore D       Ingredient freeness wire insulation     1.95 % Shore D       Carded copper wire, basic     0.1		
Jacker Clark     black       Type of Carlifacta     cURus       Amount stranding     1       Stranding     3 wires twisted       wires management     black 1. Iback 2. green-yellow       No. of bending cycles (C-track)     10 Mo. @ 25 °C       Cable weight     56.1 g/m       Material jacket     PUR       Stree Interdness jacket     90 ± 5 Stree A       Freedom from Ingredients (jacket)     16 ad free, cardinum-free, CFC-free, halogen-free, silicone free       Outer diameter (jacket)     5 5 %       Toferance outer diameter (isolation)     5 5 %       Clare diameter (insulation     1.35 mm       Outer diameter insulation     1.35 mm       Outer diameter insulation     7.2 5 %       Stree Internescore insulation     7.2 5 %       Stree Internescore insulation     7.2 5 %       Diard diameter insulation     7.2 5 %       Stree Interness wire insulation     7.2 5 %       Diard diameter insulation     1.35 mm       Conductor vire insulation     9.4 2       Diameter of single wires     0.15 mm       Conductor vire insulation     0.75 mm?		
Type of Cartificatio     cUPRus       Armount stranding     1       Stranding     9 views lowised       Wite arringement     black 1, black 2, green yollow       No. of bending cycles (C-track)     10 Ma. @ 25 °C       Calde weigh     56,1 pin       Material jacket     PUR       Shore hardness jacket     90,5 Shore A       Freesdom from ingredients (jacket)     Isad-trae, cardinum-free, CFC-free, halogen-free, silicone-free       Outer-diameter (isaket)     5,9 mm       Tolerance outer diameter (islashi)     4,5 %       Material wire insulation     PP       Amount wires     3       Outer diameter insulation     1,45 rm       Outer diameter insulation     1,5 S hore D       Ingredient treases wire insulation     1,5 s hore D       Ingredient treases wire insulation     1,65 rm²       Outer diameter tole insulation     1,65 rm²       Ingredient treases wire insulation     1,64 rese, cadminum-free, CFC-free, halogen-free, silicone-free       Printing ord or wire insulation     1,65 rm²       Onsubort ordises wire insulation     1,65 rm²       Diameter of single wires     0,15 rm² <td></td> <td>white (isolation black)</td>		white (isolation black)
Amount stranding 1   Strainding 3 wires kreated   Weiter arrangement black 1, black 2, green-yellow   No. of banding cycles (C track) 10 Mio. @ 25 °C   Cable weight 66,1 g/m   Material jacket PUR   Shore hardness jacket 90 ± 5 Shore A   Freedon from ingredients (jacket) 6.3 mm   Culer diamoter (jacket) 5.3 mm   Tolerance outer diamoter (sheatth) 1.5 %   Amount wires 3   Outer diamoter insulation PP   Amount wires 3   Outer diamoter insulation 7.9 ± 5 Shore D   Togredient freenes wire insulation 1.85 mm   Outer diamoter insulation white (solation black)   Amount strands (wire) 0.75 mm <sup>2</sup> Diameter of single wires 0.15 mm   Conductor type (wire) stranded copper wire, bare   Conductor wire Stranded copper wire, bare   Conductor wire 26 CMm @ 20 °C   Nominal vottage power A cmax. 300 V	Jacket Color	black
Stranding     3 wires twisted       wire arrangement     black 1, black 2, green-yellow       No. of bending cycles (C-track)     10 Mo. (do 22 °C       Cable weigh     66.1 g/m       Material jacket     PUR       Shore hardness jacket     90.5 Shore A       Freedom from ingredients (acket)     lead-free, cadmium-free, CFC-free, halogen-free, silicone-free       Outer-diameter (iacket)     5.9 mm       Tolerance outer diameter (head)     5.9 mm       Tolerance outer diameter (head)     5.9 mm       Outer diameter (iacket)     1.85 mm       Outer diameter (head)     1.85 mm       Outer diameter (head)     1.9 Shore D       Ingredient freeness wire insulation     1.9 S Shore D       Ingredient freeness wire insulation     1.9 S Shore D       Ingredient freeness wire insulation     1.9 S Shore D       Ingredient freeness wire insulation     white (solation black)       Amount strand S (wire)     42       Diameter of single wires     0.15 mm       Conductor crossection (wire)     0.75 mm <sup>2</sup> Material conductor wire     Stranded copper wire, bare       Conductor vires (Stranded)     10 m @	Type of Certificate	cURus
wire arrangement     black 1, black 2, green yellow       No. of bending cycles (C-track)     10 Mio. @ 25 °C       Cable weigh     56, 1g /m       Matorial jacket     PUR       Shore hardness jacket     90 ± 5 Shore A       Freedom from ingrodients (jacket)     bed ± Free, cadmium-free, CFC-free, halogen-free, silicone-free       Outer diameter (jacket)     5.9 mm       Tolerance outer diameter (haehat)     ± 5 %       Material wire insulation     PP       Amount wires     3       Outer diameter insulation     1.85 mm       Outer diameter insulation     1.85 mm       Outer diameter kines wire insulation     70 ± 5 Shore D       Ingredient free-reset wire insulation     1.85 mm       Outer diameter kines wire insulation     70 ± 5 Shore D       Ingredient free-reset wire insulation     while (isolation black)       Amount strands (wire)     42       Diameter of single wires     0.15 mm       Conductor type (wire)     strand class 6       Traversing distance (C-track)     10 m @ 25 °C [horizontal       Current dood capacity min, wire     12 A       Electrical resistance line constant wire <t< td=""><td>Amount stranding</td><td>1</td></t<>	Amount stranding	1
No. of bending cycles (C-track)   10 Mio. @ 25 °C     Cable weight   56,1 g/m     Material jacket   PUR     Shore hardness jacket   90 ± 5 Shore A     Freedom from ingredients (jacket)   1ead free, cadmium free, CFC-free, halogen-free     Outer diametic (jacket)   5.9 mm     Tolerance outer diameter (sheath)   ± 5 %     Material wire insulation   PP     Amount wires   3     Outer diameter insulation   1.85 mm     Outer diameter insulation   164 free, cadmium free, CFC-free, halogen-free, silicone-free     Printing color of wire insulation   white (solation black)     Amount strands (wire)   42     Diameter of single wires   0.15 mm     Conductor viscescention (wire)   0.75 mm <sup>2</sup> Conductor viscescention (wire)   10 m @ 25 °C (Inoraontal     Current load capacity (standard)   to DIN VDE 0238 4     Current load capacity (standard)   to DIN VDE 0238 4     Current load capacity (wire)   <	Stranding	3 wires twisted
Cable weight     56,1 g/m       Material jacket     PUR       Shore hardness jacket     90 15 Shore A       Freedom from ingredients (jacket)     lead-free, cadmium-free, CFC-free, halogen-free, silicone-free       Outer diameter (jacket)     5.9 mm       Tolerance outer diameter (slacket)     5.9 mm       Outer diameter (isolation)     5.9 mm       Outer diameter insulation     PP       Amount wires     3       Outer diameter Insulation     1.85 mm       Outer diameter Insulation     1.55 %       Shore hardness wire insulation     1.05 mm       Outer diameter Insulation     1.55 %       Shore hardness wire insulation     1.55 mm       Outer diameter insulation     white (isolation black)       Amount strands (wire)     42       Diameter of single wires     0.15 mm       Conductor rowssection (wire)     0.75 mm?       Conductor wire     Stranded copper wire, bare       Conductor wire (wire)     0.75 mm?	wire arrangement	
Material jackiet     PUR       Shore hardness jacket     90 ± 5 Shore A       Freedom Itom Ingredients (jackiet)     lead Arbee, admium-free, CPC-free, halogen-free, silicone-free       Outer diameter (jacket)     5,9 mm       Tolerance outer diameter (jacket)     5,9 mm       Atterial Wrie Insulation     PP       Amount Wries     3       Outer diameter (solation)     1,85 mm       Outer diameter (wrie Insulation)     42       Diameter of single wries     0,15 mm       Conductor view (wrie Insulation)     0,75 mm <sup>2</sup> Material conductor wiew     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 (standardr)     <	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)     ± 5 %       Material wire insulation     PP       Amount wires     3       Outer diameter (jacket)     ± 5 %       Material wire insulation     1.85 mm       Outer diameter tolerance core insulation     ± 5 %       Shore hardness wire insulation     1.95 Shore D       Ingredient freeness wire insulation     wire (jacket)       Hander Signe Wire Signess     0.15 mm       Conductor crossection (wire)     0.75 mm²       Material conductor wire     Stranded copper wire, bare       Conductor type (wire)     strand class 6       Traversing distance (C-rack)     10 m @ 25 °C (horizontal       Current load capacity min. wire     12 A       Electrical resistance line constant wire     26 Ωkm @ 20 °C       Nominal voltage power AC max.     300 V       Power facteuncy withstand voltage power wire     2,5 kV @ 60 s       AC withstand voltage power wire     2,5 kV @ 60 s       Min: operating temperature (static)     -40 °C       Max opa	Cable weigth	56,1 g/m
Freedom from ingredients (jacket)     lead-free, cadmium-free, CFC-free, halogen-free, silicone-free       Outer-diameter (jacket)     5,9 mm       Tolerance outer diameter (sheath)     5 %       Material wire insulation     PP       Amount wires     3       Outer diameter lolerance core insulation     1,85 mm       Outer diameter lolerance core insulation     70 ± 5 % fore D       Ingredient freeness wire insulation     kef free, cadmium-free, CFC-free, halogen-free, silicone-free       Printing color of wire insulation     kef free, cadmium-free, CFC-free, halogen-free, silicone-free       Printing color of wire insulation     kef free, cadmium-free, CFC-free, halogen-free, silicone-free       Printing color of wire insulation     kef free, cadmium-free, CFC-free, halogen-free, silicone-free       Construct freesesses wire insulation     kef free, cadmium-free, CFC-free, halogen-free, silicone-free       Printing color of wire insulation     kef free, cadmium-free, CFC-free, halogen-free, silicone-free       Printing color of wire insulation     kef free, cadmium-free, CFC-free, halogen-free, silicone-free       Printing color of wire insulation     kef free, cadmium-free, CFC-free, halogen-free, silicone-free       Construct of single wires     0,15 mm       Conductor wires discone     0,15 mm <td>Material jacket</td> <td>PUR</td>	Material jacket	PUR
Outer diameter (jacket)     5,9 mm       Tolerance suter diameter (sheath)     15 %       Matrial wire insulation     PP       Amount wires     3       Outer diameter (sheath)     1,85 mm       Outer diameter insulation     1,85 mm       Outer diameter insulation     70 ± 5 Shore D       Ingredient freeness wire insulation     70 ± 5 Shore D       Ingredient freeness 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 vise     Stranded copper wire, bare       Current load capacity min. wire     12 A       Electrical resistance line constant wire     26 Q/km @ 20 °C       Nominal voltage power (wire - wire)     2,5 kV @ 60 s       Ac withstand voltage power (wire - wire)     2,5 kV @ 60 s       Min. operating temperature (fixed)     80 °C / 90 °C	Shore hardness jacket	90 ± 5 Shore A
Tolerance outer diameter (sheath)   ± 5 %     Material wire insulation   PP     Amount wires   3     Outer diameter insulation   1.85 mm     Outer diameter lolerance core insulation   ± 5 %     Shore hardness wire insulation   10 ± 5 Shore D     Ingredient freeness wire insulation   10 ± 5 Shore D     Ingredient freeness wire insulation   white (isolation black)     Amount strands (wire)   42     Diameter of single wires   0.15 mm     Conductor crossection (wire)   0.75 mm <sup>o</sup> Material conductor wire   Stranded copper wire, bare     Conductor type (wire)   strande class 6     Traversing distance (C+rack)   10 m @ 25 °C (horizontal     Current load capacity (standard)   to DIN VDE 0298-4     Missingt voltage power (wire -wire)   2.5 kV @ 60 s <td>Freedom from ingredients (jacket)</td> <td>lead-free, cadmium-free, CFC-free, halogen-free, silicone-free</td>	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Material wire insulation     PP       Amount wires     3       Outer diameter insulation     1.85 mm       Outer diameter folkarace core insulation     1.5 %       Shore hardness wire insulation     70 ± 5 Shore D       Ingredient freeness wire insulation     70 ± 5 Shore D       Ingredient freeness wire insulation     white (isolation black)       Amount strands (wire)     42       Diameter of single wires     0.15 mm       Conductor crossection (wire)     0.75 mm <sup>9</sup> Material conductor wire     Stranded coper wire, bare       Conductor type (wire)     strand class 6       Traversing distance (C-track)     10 m @ 25 °C   horizontal       Current load capacity (standard)     to DIN VDE 02984 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 VDE 0298 4       Current load capacity (standard)     to DIN VDE 0298 4       Min. operating temperature (stance)     4.0 °C       Nominal voltage power AC max.     300 V       Power frequency withstand voltage power (wire -wire)     2.5 kV @ 60 s <t< td=""><td>Outer-diameter (jacket)</td><td>5,9 mm</td></t<>	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 70 ± 5 Shore D   Ingredient freeness wire insulation white (solation black)   Amount strands (wire) 42   Diameter of single wires 0,15 mm   Conductor rossescein (wire) 0,75 mm <sup>2</sup> Material conductor wire Stranded copper wire, bare   Conductor wire (wire) 0,75 mm <sup>2</sup> Material conductor wire Stranded copper wire, bare   Conductor wire (wire) 0,75 mm <sup>2</sup> Material conductor wire Stranded copper wire, bare   Conductor wire (wire) 0,75 mm <sup>2</sup> Current load capacity (standard) to DIN VDE 0288-4   Current load capacity (standard) to DIN VDE 028-4   Current load capacity (standard) to DIN VDE 028-4   Current load capacity (standard) 2.6 NV @ 60 s	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     tead-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 rosseschion (wire)     0,75 mm <sup>2</sup> Material conductor wire     Stranded copper wire, bare       Conductor torge (wire)     strand class 6       Traversing distance (C-track)     10 m @ 25 °C   horizontal       Current to acapacity (standard)     to DIN VDE 298-4       Current load capacity min. wire     12 A       Electrical resistance line constant wire     26 Ωkm @ 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 te	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     white (isolation black)       Amount strands (wire)     42       Diameter of single wires     0.15 mm       Conductor vires     Stranded copper wire, bare       Conductor vire     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 208-4       Current load capacity (standard)     to DIN VDE 0298-4       Current load capacity (standard)     to DIN VDE 0298-4       Current load capacity wints and voltage power     2.5 kV @ 60 s       Ac withstand voltage power     2.5 kV @ 60 s       Min. operating temperature (static)     -40 °C       Max operating temperature (static)     -40 °C       Operating temperature (min: (dynamic)     -25 °C       Operating temperature (min: (dynamic)     -25 °C	Amount wires	3
Shore hardness wire insulation     70 ± 5 Shore D       Ingredient freeness wire insulation     lead-free, cadmum-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 mm <sup>2</sup> 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)     to DIN VDE 0298-4       Current load capacity (withstand voltage power (wire - wire)     2,5 kV @ 60 s       Ac withstand voltage power (wire - wire)     2,5 kV @ 60 s       Ac withstand voltage power (wire - wire)     2,5 kV @ 60 s       Min. operating temperature (static)     -40 °C       Ac withstand voltage power (wire - wire)     2,5 kV @ 60 s       Min. operating temperature (static)     -40 °C       Max. operating temperature (static)     -40 °C       Dearating temperature (static)	Outer diameter insulation	1,85 mm
Ingredient freeness wire insulation     lead-free, cadmium-free, CFC-free, halogen-free       Printing color of wire insulation     white (isolation black)       Amount strands (wire)     42       Diameter of single wires     0,15 mm       Conductor rossection (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       Current Load capacity (standard)     to DIN VDE 0298-4       Current Load capacity (standard)     to DIN VDE 0298-4       Electrical resistance line constant wire     26 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 (static)     -50 °C @ 10000 h Operation       Operating temperature (static)     -40 °C       Max. operating temperature (static)     -50 °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	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     Conductor type (wire)   strand class 6     Current load capacity (standard)   to DIN VDE 0288-4     Current load capacity (standard)   to DIN VDE 0288-4     Current load capacity (standard)   20 C/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)   -25 °C     Operating temperature (static)   -26 °C @ 10000 h Operation     Operating temperature (static)   -25 °C     Operating temperature min. (dynamic)   -25 °C	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 <sup>2</sup> 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   12 A     Electrical resistance line constant wire   26 0/km @ 20 °C     Nominal voltage power AC max.   300 V     Power frequency withstand voltage power   2,5 kV @ 60 s     (mir jacket)   40 °C     Max. operating temperature (state)   40 °C     Max. operating temperature (state)   40 °C     Max. operating temperature (state)   80 °C / 90 °C @ 10000 h Operation     UV resistance   DIN EN ISO 4892-2 A     Flame resistance   IEC 60322-2 I UL 1581 § 1100 FT2   UL 1581 § 1090     chemical resistance   Good, application-related testing     Gasoline resistanc	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
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     Current load capacity (standard)   to DIN VDE 0296-4     Current load capacity (standard)   to DIN VDE 0296-4     Current load capacity min. wire   12 A     Electrical resistance line constant wire   26 Ω/km @ 20 °C     Nominal voltage power AC max.   300 V     Power frequency withstand voltage power (wire - wire)   2,5 kV @ 60 s     AC withstand voltage power (wire - wire)   2,5 kV @ 60 s     Max. 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     UV resistance   DIN E N 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	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       Current load capacity (standard)     to DIN VDE 0298-4       Current load capacity (standard)     to DIN VDE 0298-4       Electrical resistance line constant wire     26 Ω/km @ 20 °C       Nominal voltage power AC max.     300 V       Power frequency withstand voltage power (wire - jacket)     2,5 kV @ 60 s       AC withstand voltage power (wire - wire)     2,5 kV @ 60 s       Max. operating temperature (static)     -40 °C       Max. operating temperature (static)     -40 °C       Ver vesistance     B0 °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       Oil resistance     Good, application-related testing <td>Amount strands (wire)</td> <td>42</td>	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       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       Nominal voltage power AC max.     300 V       Power frequency withstand voltage power (wire - jacket)     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 (static)     -40 °C       Operating temperature (dynamic)     80 °C / 90 °C @ 10000 h Operation       Operating temperature (dynamic)     -25 °C       Operating temperature min. (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, appli	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 min. wire12 AElectrical resistance line constant wire26 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 (ifxed)80 °C / 90 °C @ 10000 h OperationOperating temperature max. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationUV resistanceIEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingDin souter diameterNo. of torsion cyclesNo. of torsion cycles2 Mio.Torsion speed35 cycles/min	Conductor crosssection (wire)	0,75 mm <sup>2</sup>
Traversing distance (C-track)10 m @ 25 °C   horizontalCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire12 AElectrical resistance line constant wire26 Ω/km @ 20 °CNomial 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 (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 Kifked)5 × Outer diameterBending radius (fixed)5 × Outer diameterNo. of torsion cycles2 Mio.Torsion speed35 cycles/min	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 Q/km @ 20 °C     Nominal voltage power AC max.   300 V     Power frequency withstand voltage power (wire - jacket)   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 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     <	Conductor type (wire)	strand class 6
Current load capacity min. wire   12 A     Electrical resistance line constant wire   26 Ω/km @ 20 °C     Nominal voltage power AC max.   300 V     Power frequency withstand voltage power (wire - jacket)   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 (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   EICE 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090     chemical resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Oil resi	Traversing distance (C-track)	10 m @ 25 °C   horizontal
Electrical resistance line constant wire   26 Ω/km @ 20 °C     Nominal voltage power AC max.   300 V     Power frequency withstand voltage power (wire - jacket)   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 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  <	Current load capacity (standard)	to DIN VDE 0298-4
Electrical resistance line constant wire   26 Ω/km @ 20 °C     Nominal voltage power AC max.   300 V     Power frequency withstand voltage power (wire - jacket)   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 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  <	Current load capacity min. wire	12 A
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 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 resistanceS × Outer diameterBending radius (fixed)5 × Outer diameterBending radius (dynamic)10 × Outer diameterNo. of torsion cycles2 Mio.Torsion speed35 cycles/min		26 Ω/km @ 20 °C
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 OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceIEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090chemical resistanceGood, application-related testingOil resistanceGood, application-related testingNo. of torsion cycles2 Mio.Torsion speed35 cycles/min	Nominal voltage power AC max.	
(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 OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceIEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090chemical resistanceGood, application-related testingOil resistanceGood, application-related testingNo. of torsion cycles2 Mio.Torsion speed35 cycles/min		
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 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 sourceS × Outer diameterBending radius (fixed)5 × Outer diameterNo. of torsion cycles2 Mio.Torsion speed35 cycles/min		
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 resistanceS × Outer diameterBending radius (dynamic)10 × Outer diameterNo. of torsion cycles2 Mio.Torsion speed35 cycles/min		
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 speed5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of torsion cycles2 Mio.Torsion speed35 cycles/min		
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 gradius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of torsion cycles2 Mio.Torsion speed35 cycles/min		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 diameterNo. of torsion cycles2 Mio.Torsion speed35 cycles/min		
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 torsion cycles2 Mio.Torsion speed35 cycles/min		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 torsion cycles2 Mio.Torsion speed35 cycles/min	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 torsion cycles2 Mio.Torsion speed35 cycles/min	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 torsion cycles   2 Mio.     Torsion speed   35 cycles/min	chemical resistance	Good, application-related testing
Bending radius (fixed)   5 x Outer diameter     Bending radius (dynamic)   10 x Outer diameter     No. of torsion cycles   2 Mio.     Torsion speed   35 cycles/min	Gasoline resistance	
Bending radius (dynamic)10 x Outer diameterNo. of torsion cycles2 Mio.Torsion speed35 cycles/min	Oil resistance	Good, application-related testing   DIN EN 60811-404
No. of torsion cycles 2 Mio.   Torsion speed 35 cycles/min	Bending radius (fixed)	5 x Outer diameter
Torsion speed 35 cycles/min	Bending radius (dynamic)	10 x Outer diameter
	No. of torsion cycles	2 Mio.
Torsion stress ± 180 °/m	Torsion speed	35 cycles/min
	Torsion stress	± 180 °/m

The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-04-27

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