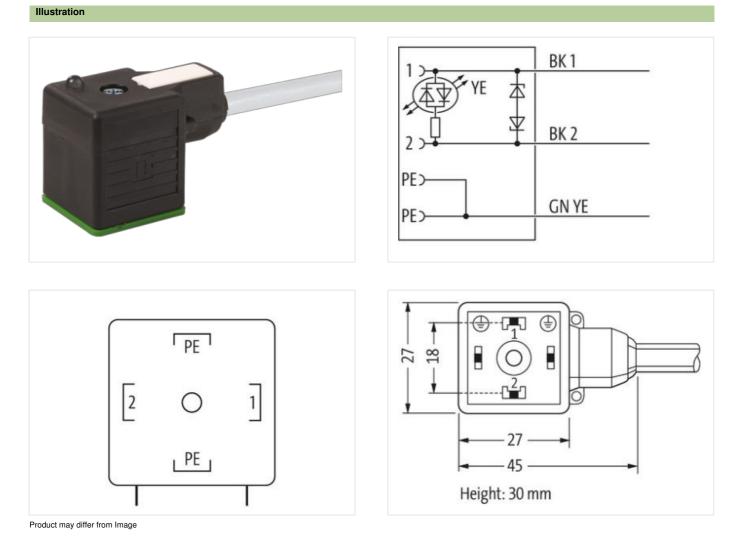


## MSUD valve plug A-18mm with cable

PUR 3x0.75 gy UL/CSA 10m

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



60

Cable length

10 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	4048879194112
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	c

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Additional condition temperature range     depending on cable quality       Installation (Cable     Installation (Cable Cable Type)     2       Cable Type     2     Installation (Cable Cable Type)     2       Cable Coord     gray     gray     Type of Cartificate     CURus       Arrount stranding     1     1     Stranding (Samperature Rice)     Stranding (Samperature Rice)	Operating temperature min.	-25 °C
Instalistion   Cable     Z26       Cable Infraction     226       Cable Type     2       Cable Type     2       Cable Store     gray       Type of Carliacia     CURus       Annount stranding     1       Stranding     3 wires brelated       No. of breding cycles (C track)     2 Mole 28 °C       Cable weight     55.33 g/m       Material jacket     84 ± 5 Shore A       Freedom from ingredients (jacket)     184 ± 5 Shore A       Freedom from ingredients (jacket)     185 ± 5 Shore A       Freedom from ingredients (jacket)     18 ± 5 Shore A       Cable weight     5 5 %       Matarial wire insulation     PVC       Matarial wire insulation     PVC       Annount wires     3       Outer diameter tolearance core insulation     4 ± 5 %       Shore hardness wire insulation     18 mm       Outer diameter tolearance core insulation     4 ± 5 %       Conductor corssection (wire)     42       Diameter of single wires     0.15 mm       Conductor corssection (wire)     15 A       Diameter of si	Operating temperature max.	85 °C
Cable identification228Cable Type2Cable Type2Jacket ColorgrayType of CentificatecURusAnount stranding1Insert Stranding3 wise twistedStranding3 wise twistedWie arrangementblack 1, black 2, green-yellowNo. of brading cycles (C+track)2 Moo @ 2 °CCable weigin55,33 g/mMaterial jacketPURStrone hardnoss jackit85 1 S Shore AFreedom from ingredients (jacket)lead-tree, cadmium-free, CFC-tree, halogen-freeOuter-dimeter (jacket)1.8 %Material jacketPVCMaterial jacketPVCMaterial innor jackatPVCMaterial innor jackatPVCAmount wires3Outer-dimeter (includin)4.8 %Cudre dimeter forter dimeter (includin)4.9 %Material wire insulation4.9 1 S Shore DOuter dimeter forter dimeter (includin)4.9 1 S Shore DOuter dimeter forter dimeter insulation4.9 1 S Shore DOuter dimeter forter dimeter insulation4.9 1 S Shore DOuter dimeter forter display wires0.15 mmConductor rosseaction (wire)9.2 CDimeter of single wires0.15 mmConductor vires Strand (stage)1.9 MPConductor vires Strand (stage)1.9 CConductor vires Strand (weig)1.9 CConductor vires Strand (weig)9.0 CConductor vires Strand (weig)1.9 CConductor vires Strand (stage power wei	Additional condition temperature range	depending on cable quality
Cable Type     2       Jackel Color     gray       Jackel Color     gray       Type of Certificate     c/Ulus       Anount stranding     1       Stranding     3 wires twisted       We arrangement     black 1, black 2, green-yellow       No. of bending cycles (C-track)     2 Mio. @ 25 °C       Cable weight     55.33 g/m       Material Jacket     PUR       Store hardness jacket     85.4 5 Shore A       Freedom from Ingredents (jacket)     6.9 mm       Tolerance outer diameter (leaket)     5.9 mm       Tolerance outer diameter (leaket)     5 %       Material inver jusciation     PVC       Material wire insulation     1,8 mm       Outer diameter insulation     1,8 mm       Outer diameter insulation     1,8 mm       Outer diameter insulation     43 ± 5 Shore D       Ingredent freeness wire insulation     43 ± 5 Shore D       Conductor crossection (wire)     0,75 mm <sup>3</sup> Conductor traves     Strand docper wire, bare       Conductor traves color insulation     12 A       Electral aresistance line constant <td< td=""><td>Installation   Cable</td><td></td></td<>	Installation   Cable	
Jacket Color     gray       Type of Carificatio     CURus       Annount stranding     1       Stranding     3 wires twisted       Wire arrangement     black 1, black 2, green-yellow       No. of bending cycles (C+track)     2 Mio. @ 25 °C       Cable weight     56.33 g/m       Material jackat     PUR       Shore hardness jackat     B15 ± 5 Shore A       Freedom from ingredients (jacket)     lead-free, cardmum-free, CFC-free, halogen-free, silicone-free       Outer diameter (sheath)     1.5 %       Material inner jacket     PVC       Material inner jacket     PVC       Material wire insulation     1.8 rm       Outer diameter tolerance core insulation     4.3 ± 5 Shore D       Outer diameter tolerance core insulation     4.3 ± 5 Shore D       Conductor rowssection (wire)     2.7 mm²       Conductor rowssection (wire)     0.75 mm²       Conductor wire     Stranda copper wire, baro       Conductor wire     Stranda copper wire, baro       Conductor wire     200 V       Power trajency withstand voltage power (wire)     21 %       Current load capacity (stranderd) <td>Cable identification</td> <td>226</td>	Cable identification	226
Type of Certificate     cURus       Amount stranding     1       Stranding     3 wires twisted       Stranding     3 wires twisted       Stranding     3 wires twisted       Stranding     2 Min. @ 25 °C       Cable weigin     55,33 g/m       Material jackot     90 ± 5 Shore A       Freadom trom ingredients (gacket)     86 ± 5 Shore A       Freadom trom ingredients (gacket)     5.9 mm       Toteranco suct anawter (sheath)     2 5 %       Material inner jacket     PVC       Material inner jacket     S 3       Outer diameter issulation     1.8 mm       Duff diameter tolerance core insulation     43 ± 5 Shore D       Shore hardness wire insulation     42       Diameter of single wires     0.15 mm       Canductor prosesseation (wire) </td <td>Cable Type</td> <td>2</td>	Cable Type	2
Amount stranding     1       Stranding     3 wires twisted       wire arrangement     black 1, black 2, green yellow       No. of bending cycles (C-track)     2 Mio. @ 25 °C       Cable weight     55.33 g/m       Material jacket     PUR       Shore hardness jacket     85 ± 5 Shore A       Freedom from ingredients (jacket)     lead-tree, cadmium-free, CFC-free, halogen-free, silicone-free       Outer -diameter (jacket)     ± 5 %       Material jacket     PVC       Amount strand, giaxet)     18 mm       Outer diameter insulation     1,8 mm       Outer diameter insulation     43 ± 5 Shore D       Ingredient Freeness wire insulation     43 ± 5 Shore D       Ingredient freeness wire insulation     43 ± 2 Shore D       Outer diameter insulation     1,5 mm       Conductor crosssection (wire)     0,75 mm <sup>2</sup> Conductor rosssection (wire)     57 mm <sup>2</sup> Diameter of single wires     0,15 mm       Conductor type (wire)     strand cags 4       Conductor wire     Strande copper wire, bare       Conductor wire     Strand cags 4       Controt food capapaty (standwolta	Jacket Color	gray
Stranding   3 wires twisted     wire arrangement   black 1, black 2, green-yellow     No. of bending cycles (C-track)   2 Mio. @ 25 °C     Cable weigh   55,33 g/m     Material jacket   PUR     Shore hardness jacket   85 ± 5 Shore A     Freedom from ingredients (jacket)   Iead-free, cadmium-free, CFC-free, halogen-free, silicone-free     Outer -diameter (jacket)   5.9 mm     Tolerance outer diameter (sloatet)   ± 5 %     Material inner jacket   PVC     Material inver isolation   PVC     Material wire insulation   PVC     Amount wires   3     Outer diameter insulation   1.8 mm     Outer diameter insulation   43 ± 5 Shore D     Outer diameter wire insulation   43 ± 5 Shore D     Outer diameter tolerance core insulation   42     Diameter of single wires   0.15 mm     Conductor wire   Stranded copper wire, bare     Conductor wi	Type of Certificate	cURus
wire arrangement     black 1, black 2, green-yellow       No. of bending cycles (C-track)     2 Mio. @ 25 °C       Cable weigh     55.33 g/m       Material jacket     PUR       Shore hardness jacket     85 ± 5 Shore A       Freedom Trom ingredients (jacket)     Iead-free, cadmium-free, CFC-free, halogen-free, silicone-free       Outer diameter (jacket)     5.9 mn       Toferance outer diameter (sheath)     ± 5 %       Material inori (jacket)     PVC       Material inori (jacket)     9.9 VC       Material inori (jacket)     1.8 mm       Outer diameter insulation     1.8 mm       Outer diameter insulation     43 ± 5 Shore D       Ingredient freeness wire insulation     42       Diameter of single wires     0.15 mm       Canductor rowssection (wire)     0.75 mm²       Material conductor wire     Stand dosper wire, bare       Carrent load capacity (mistand conductor wire, bare     20 VC       Nomitar Valtage prower AC max.     300 V       Power focusconty Wintsand voltage prower AC max.     300 V       Power focusconty Wintsand voltage prower AC max.     30 °C       Nomitar lowal capacity min. wire	Amount stranding	1
No. of bending cycles (C-track)     2 Mio. @ 25 °C       Cable weight     55.33 g/m       Material Jackat     PUR       Shore hardness jackat     85 ± 5 Shore A       Freedom from ingredients (jacket)     lead-free, cadmium-free, CFC-free, halogen-free, silicone-free       Outer-diameter (jacket)     ± 5 %       Material inner jacket     PVC       Material inner jacket     PVC       Material inner jacket     PVC       Material wire insulation     1 % m       Outer diameter tolerance core insulation     1 % m       Outer diameter tolerance core insulation     43 ± 5 Shore D       Ingredient freeness wire insulation     lead-free, cadmium-free, CFC-free, silicone-free       Amount strands (wire)     42       Diameter of single wires     0,15 mm       Conductor crossection (wire)     0,75 mm²       Conductor type (wire)     stranded copper wire, bare       Conductor type (wire)     stranded copper wire, bare       Conductor crossection (wire)     0,75 mm²       Conductor type (wire)     stranded copper wire, bare       Conductor type (wire)     stranded copper wire, bare       Conductor type (wire)	Stranding	3 wires twisted
No. of bending cycles (C-track)     2 Mio. @ 25 °C       Cable weight     55.33 g/m       Material Jackat     PUR       Shore hardness jackat     85 ± 5 Shore A       Freedom from ingredients (jacket)     lead-free, cadmium-free, CFC-free, halogen-free, silicone-free       Outer-diameter (jacket)     ± 5 %       Material inner jacket     PVC       Material inner jacket     PVC       Material inner jacket     PVC       Material wire insulation     1 % m       Outer diameter tolerance core insulation     1 % m       Outer diameter tolerance core insulation     43 ± 5 Shore D       Ingredient freeness wire insulation     lead-free, cadmium-free, CFC-free, silicone-free       Amount strands (wire)     42       Diameter of single wires     0,15 mm       Conductor crossection (wire)     0,75 mm²       Conductor type (wire)     stranded copper wire, bare       Conductor type (wire)     stranded copper wire, bare       Conductor crossection (wire)     0,75 mm²       Conductor type (wire)     stranded copper wire, bare       Conductor type (wire)     stranded copper wire, bare       Conductor type (wire)		black 1, black 2, green-yellow
Cable weight 55,33 g/m   Material jacket PUR   Shore hardness jacket 65 ± 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 diameter (sheath) 4.5 %   Material iner jacket PVC   Material wire insulation PVC   Amount wires 3   Outer diameter insulation 1.5 mm   Outer diameter insulation 1.8 mm   Outer diameter tolerance core insulation 4.5 %   Shore hardness wire insulation 1.8 mm   Outer diameter tolerance core insulation 4.5 %   Shore hardness wire insulation 1.8 mm   Outer diameter (wire) 42   Diameter of single wires 0.15 mm   Conductor rows wire insulation 0.75 mm²   Conductor row (wire) 5.75 mm²   Conductor row (wire) 12 A   Electrical resistance line constant wire 26 Q/tm @ 20 °C   Nominal voltage power AC max. 300 V   Power requency withstand voltage power 2 kV @ 60 s   Min. operating temperature (statc) -30 °C   Nominal voltage power (wire - wire) 2 kV @ 60 s   Min. operating temperature (statci) -30 °C		
Material jacket     PUR       Shore hardness jacket     85 ± 5 Shore A       Freedom from ingredients (jacket)     Isad-free, cadmium-free, CFC-free, halogen-free, silicone-free       Outer diameter (jacket)     5,9 mm       Tolerance outer diameter (shealt)     ± 5 %       Material wire insulation     PVC       Amount wires     3       Outer diameter insulation     PVC       Amount wires     3       Outer diameter insulation     1,8 mm       Outer diameter insulation     43 ± 5 %       Shore hardness wire insulation     43 ± 5 Shore D       Ingredient freeness wire insulation     lead-free, cadmium-free, CFC-free, silicone-free       Amount strads (wire)     42       Diameter of single wires     0,15 mm       Conductor vire     Stranded copper wire, bare       Conductor vipe (wire)     Stranded coppe	Cable weigth	
Shore hardness jacket     85 ± 5 Shore A       Freedom from ingredients (jacket)     lead-free, cadmium-free, CFC-free, halogen-free       Outer-diameter (jacket)     5,9 mm       Tolerance outer diameter (jacket)     ± 5 %       Material inner jacket     PVC       Material inner jacket     PVC       Material wire insulation     1.8 mm       Outer diameter tolerance core core insulation     ± 5 %       Shore hardness wire insulation     1.8 mm       Outer diameter tolerance core core insulation     ± 5 %       Shore hardness wire insulation     1.8 mm       Outer diameter viewalitation     4 ± 5 Shore D       Ingredient freeness wire insulation     lead-free, cadmium-free, CFC-free, silicone-free       Amount strands (wire)     4 2       Diameter of single wires     0.15 mm       Canductor rossection (wire)     0,75 mm <sup>e</sup> 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     25 D/m @ 20 °C       Nominal voltage power AC max.     300 V <t< td=""><td>Material jacket</td><td></td></t<>	Material jacket	
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 meri jacket     PVC       Material meri jacket     PVC       Amount wires     3       Outer diameter lolarance core insulation     1.8 mm       Outer diameter lolarance core insulation     4.3 ± 5 Shore D       Ingredient freeness wire insulation     4.3 ± 5 Shore D       Ingredient freeness wire insulation     1.8 mm       Outer diameter (wires)     4.2       Diameter of single wires     0,15 mm       Conductor crosssection (wire)     0,75 mm <sup>2</sup> Conductor type (wire)     strand class 6       Current load capacity min. wire     12 A       Electrical resistance line constant wire     26 Okm @ 20 °C       Nominal voltage power (wire -wire)     2 kV @ 60 s       Min. oparating free power (wire -wire)     2 kV @ 60 s       Min. oparating temperature (max. (dynamic)     45 °C       Operating temperature (max. (dynamic)     45 °C       Operating temperature min. (dynamic)     5 °C       Oparating tem	Shore hardness jacket	85 ± 5 Shore A
Outer-diameter (jacket)     5,9 mm       Tolerance outer diameter (sheath)     ± 5 %       Material miner jacket     PVC       Material miner jacket     PVC       Amount wires     3       Outer diameter isulation     1.8 mm       Outer diameter isulation     4.9 fs %       Shore hardness wire insulation     4.9 fs %       Shore hardness wire insulation     4.9 fs %       Diameter tolerance core insulation     4.9 fs %       Concord diameter insulation     4.9 fs %       Diameter of single wires     0.15 mm       Conductor orsessection (wire)     0.75 mm <sup>2</sup> Diameter of single wires     0.15 mm       Conductor visessection (wire)     0.75 mm <sup>2</sup> Conductor visessection (wire)     0.75 mm <sup>2</sup> Conductor visessection (wire)     0.75 mm <sup>2</sup> Conductor visessection (wire)     0.15 mm       Conductor visessection (wire)     0.75 mm <sup>2</sup> Conductor vise (wire)     5 kanded copper wire, bare       Conductor vise (wire)     0.15 mm       Conductor vise (wire)     2 kanded coper vise, bare       Conductor vise acality min, wire     12 A<	Freedom from ingredients (jacket)	
Tolerance outer diameter (sheath)   ± 5 %     Material inner jacket   PVC     Material wire insulation   PVC     Anount wires   3     Outer diameter insulation   1.8 mm     Outer diameter lolerance core insulation   ± 5 %     Shore hardness wire insulation   43 ± 5 Shore D     Ingredient freeness wire insulation   43 ± 5 Shore D     Ingredient freeness wire insulation   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 copser %     Outer flage power (wire)   to NIN VDE 0298-4     Current load capacity min. wire   12 A     Electrical resistance line constant wire   26 0 km @ 20 °C     Nominal voltage power (wire- wire)   2 kV @ 60 s     Min. operating temperature (statc)   -30 °C     Max. operating temperature (stat	Outer-diameter (jacket)	
Material liner jacket     PVC       Material wire insulation     PVC       Amount wires     3       Outer diameter insulation     1.8 mm       Outer diameter insulation     43 ± 5 Shore D       Ingredient freeness wire insulation     43 ± 5 Shore D       Ingredient freeness wire insulation     lead-free, cadmium-free, CFC-free, silicone-free       Amount strands (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 type (wire)     strand class 6       Current load capacity (standard)     to DIN VDE 0298-4       Current load capacity (standard)     to S Dkr @ 60 s <tr< td=""><td>Tolerance outer diameter (sheath)</td><td>±5%</td></tr<>	Tolerance outer diameter (sheath)	±5%
Amount wires   3     Outer diameter insulation   1,8 mm     Outer diameter tolerance core insulation   ± 5 %     Shore hardness wire insulation   43 ± 5 Shore D     Ingredient freeness wire insulation   lead-free, cadmium-free, CFC-free, silicone-free     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     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     Nominal voltage power AC max.   300 V     Power frequency withstand voltage power   2 kV @ 60 s     Min. operating temperature (static)   -30 °C     Max. operating temperature (static)   -30 °C     Operating temperature (min. (dynamic)   -5 °C     Operating temperature (min. (dynamic)   -5 °C     Operating temperature (min. (dynamic)   5 °C     Operating temperature (min. (dynamic)   5 °C	Material inner jacket	PVC
Outer diameter insulation     1,8 mm       Outer diameter tolerance core insulation     ± 5 %       Shore hardness wire insulation     43 ± 5 Shore D       Ingredient freeness wire insulation     lead-free, cadmium-free, CFC-free, silicone-free       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       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       Nominal voltage power AC max.     300 V       Power frequency withstand voltage power     2 kV @ 60 s       Min. operating temperature (static)     -30 °C       Operating temperature (static)     -50 °C       Operating temperature (static)     -50 °C       Operating temperature (static)     60 °C       UV resistance     DIN EN ISO 4892-2 A       Flame resistance     IEC 60332-2-2 I UL 1581 § 1090   UL 1581 § 1100 FT2	Material wire insulation	PVC
Outer diameter tolerance core insulation     ± 5 %       Shore hardness wire insulation     43 ± 5 Shore D       Ingredient freeness wire insulation     lead-free, cadmium-free, CFC-free, silicone-free       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)     stranded capse 4       Current load capacity (standard)     to DIN VDE 0298-4       Current load capacity (standard)     to DIN VDE 0298-4       Current load capacity (wire)     26 O/km @ 20 °C       Nominal voltage power AC max.     300 V       Power frequency withstand voltage power     2 kV @ 60 s       Min. operating temperature (static)     -30 °C       Max. operating temperature (static)     -30 °C       Operating temperature (mixe)     80 °C       Operating temperature (dynamic)     5 °C       Operating temperature (fixed)     80 °C       Operating temperature (max. (dynamic))     60 °C       VI resistance     DIN EN ISO 4892-2 A       Flame resistance     EC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2	Amount wires	3
Shore hardness wire insulation     43 ± 5 Shore D       Ingredient freeness wire insulation     lead-free, cadmium-free, CFC-free, silicone-free       Armount 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       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 win. 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 kV @ 60 s       AC withstand voltage power (wire - wire)     2 kV @ 60 s       AC withstand voltage power (wire)     -30 °C       Max. operating temperature (fixed)     80 °C       Operating temperature (min. (dynamic)     -5 °C       Operating temperature max. (dynamic)     5 °C       Operating temperature max. (dynamic)     80 °C       UV resistance     I	Outer diameter insulation	1,8 mm
Ingredient freeness wire insulationlead-free, cadmium-free, CFC-free, silicone-freeAmount strands (wire)42Diameter of single wires0,15 mmConductor crosssection (wire)0,75 mm²Material conductor wireStranded copper wire, bareConductor type (wire)strand class 6Current load capacity (standard)to DIN VDE 028-4Current load capacity (standard)26 Q/km @ 20 °CElectrical resistance line constant wire26 Q/km @ 20 °CNominal voltage power AC max.300 VPower frequency withstand voltage power (wire - jacket!)-30 °CMax. operating temperature (static)-30 °CMax. operating temperature (fixed)80 °COperating temperature (minc)-5 °COperating temperature (static)80 °COperating temperature max. (dynamic)80 °COperating temperature max. (dynamic)60 cd, application-related testingFlame resistanceEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDin Kin Ko811-404   Good, application-related testingOil resistanceDin Kin Ko4411-404   Good, application-related testingDin relater10 x Outer diameter	Outer diameter tolerance core insulation	±5%
Anount strands (wire)42Diameter of single wires0,15 mmConductor crosssection (wire)0,75 mm²Material conductor wireStranded copper wire, bareConductor type (wire)strand class 6Current 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 °CNominal voltage power AC max.300 VPower frequency withstand voltage power2 kV @ 60 sWire - jacket)2 kV @ 60 sAC withstand voltage power (wire - wire)2 kV @ 60 sMax. operating temperature (static)-30 °CMax. operating temperature (ixed)80 °COperating temperature min. (dynamic)-5 °COperating temperature max. (dynamic)80 °CUV resistanceDIN EN ISO 4892-2 AFlame resistanceEC 60332-2-2   UL 1581 § 1100 FT2Chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 160 611-404   Good, application-related testingBending radius (fixed)10 x Outer diameter	Shore hardness wire insulation	43 ± 5 Shore D
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     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     Nominal voltage power AC max.   300 V     Power frequency withstand voltage power   2 kV @ 60 s     Min. operating temperature (static)   -30 °C     Max. operating temperature (static)   -30 °C     Operating temperature (ixed)   80 °C     Operating temperature min. (dynamic)   -5 °C     Operating temperature min. (dynamic)   -5 °C     UV resistance   DIN EN ISO 4892-2 A     Flame resistance   IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2     chemical resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Gasoline resistance   DiN EN 60811-404   Good, application-related testing     <	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, silicone-free
Conductor crosssection (wire)0,75 mm²Material conductor wireStranded copper wire, bareConductor type (wire)strand class 6Current 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 kV @ 60 sMin. operating temperature (static)-30 °CMax. operating temperature (fixed)80 °COperating temperature min. (dynamic)-5 °COperating temperature max. (dynamic)80 °CUV resistanceDIN EN ISO 4892-2 AFlame resistanceIEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceDIN EN 60811-404   Good, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingBending radius (fixed)10 x Outer diameter	Amount strands (wire)	42
Material conductor wire   Stranded copper wire, bare     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     Nominal voltage power AC max.   300 V     Power frequency withstand voltage power   2 kV @ 60 s     AC withstand voltage power (wire - wire)   2 kV @ 60 s     Max. operating temperature (static)   -30 °C     Max. operating temperature (fixed)   80 °C     Operating temperature max. (dynamic)   -5 °C     Operating temperature max. (dynamic)   50 °C     UV resistance   DIN EN ISO 4892-2 A     Flame resistance   IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2     chemical resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Oil resistance   DIN EN 60811-404   Good, application-related testing     Oil resistance   DIN EN 60811-404   Good, application-related testing     Bending radius (fixed)   10 x Outer diameter	Diameter of single wires	0,15 mm
Conductor type (wire)strand class 6Current 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 kV @ 60 sAC withstand voltage power (wire - wire)2 kV @ 60 sMin. operating temperature (static)-30 °CMax. operating temperature (static)-30 °COperating temperature (fixed)80 °COperating temperature max. (dynamic)-5 °COperating temperature max. (dynamic)80 °CUV resistanceDIN EN ISO 4892-2 AFlame resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingBending radius (fixed)10 x Outer diameter	Conductor crosssection (wire)	0,75 mm <sup>2</sup>
Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire12 AElectrical resistance line constant wire26 Q/km @ 20 °CNominal voltage power AC max.300 VPower frequency withstand voltage power (wire - jacket)2 kV @ 60 sAC withstand voltage power (wire - wire)2 kV @ 60 sAC withstand voltage power (wire - wire)2 kV @ 60 sMin. operating temperature (static)-30 °CMax. operating temperature (fixed)80 °COperating temperature min. (dynamic)-5 °COperating temperature max. (dynamic)80 °CUV resistanceDIN EN ISO 4892-2 AFlame resistanceIEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingOil resistanceDIN EN 004811-404   Good, application-related testingBending radius (fixed)10 x Outer diameter	Material conductor wire	Stranded copper wire, bare
Current load capacity min. wire12 AElectrical resistance line constant wire26 Ω/km @ 20 °CNominal voltage power AC max.300 VPower frequency withstand voltage power (wire - jacket)2 kV @ 60 sAC withstand voltage power (wire - wire)2 kV @ 60 sMin. operating temperature (static)-30 °CMax. operating temperature (static)-30 °COperating temperature (fixed)80 °COperating temperature min. (dynamic)-5 °COperating temperature max. (dynamic)80 °CUV resistanceDIN EN ISO 4892-2 AFlame resistanceIEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceDIN EN 60811-404   Good, application-related testingOil resistanceIDN EN 60811-404   Good, application-related testingBending radius (fixed)10 x Outer diameter	Conductor type (wire)	strand class 6
Electrical resistance line constant wire26 Ω/km @ 20 °CNominal voltage power AC max.300 VPower frequency withstand voltage power2 kV @ 60 sAC withstand voltage power (wire - wire)2 kV @ 60 sAC withstand voltage power (wire - wire)2 kV @ 60 sMin. operating temperature (static)-30 °CMax. operating temperature (fixed)80 °COperating temperature min. (dynamic)-5 °COperating temperature max. (dynamic)80 °CUV resistanceDIN EN ISO 4892-2 AFlame resistanceIEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceDIN EN 60811-404   Good, application-related testingOil resistanceIDN EN 60811-404   Good, application-related testingBending radius (fixed)10 x Outer diameter	Current load capacity (standard)	to DIN VDE 0298-4
Nominal voltage power AC max.300 VPower frequency withstand voltage power (wire - jacket)2 kV @ 60 sAC withstand voltage power (wire - wire)2 kV @ 60 sMin. operating temperature (static)-30 °CMax. operating temperature (fixed)80 °COperating temperature min. (dynamic)-5 °COperating temperature max. (dynamic)80 °CUV resistanceDIN EN ISO 4892-2 AFlame resistanceIEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2chemical resistanceGood, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingOil resistanceIDN EN 60811-404   Good, application-related testingBending radius (fixed)10 x Outer diameter	Current load capacity min. wire	12 A
Power frequency withstand voltage power (wire - jacket)2 kV @ 60 sAC withstand voltage power (wire - wire)2 kV @ 60 sAC withstand voltage power (wire - wire)2 kV @ 60 sMin. operating temperature (static)-30 °CMax. operating temperature (fixed)80 °COperating temperature min. (dynamic)-5 °COperating temperature max. (dynamic)80 °CUV resistanceDIN EN ISO 4892-2 AFlame resistanceIEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingBending radius (fixed)10 x Outer diameter	Electrical resistance line constant wire	26 Ω/km @ 20 °C
(wire - jacket)   2 kV @ 60 s     AC withstand voltage power (wire - wire)   2 kV @ 60 s     Min. operating temperature (static)   -30 °C     Max. operating temperature (fixed)   80 °C     Operating temperature min. (dynamic)   -5 °C     Operating temperature max. (dynamic)   80 °C     UV resistance   DIN EN ISO 4892-2 A     Flame resistance   IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2     chemical resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Oil resistance   DIN EN 60811-404   Good, application-related testing     Oil resistance   DIN EN 60811-404   Good, application-related testing     Bending radius (fixed)   10 x Outer diameter	Nominal voltage power AC max.	300 V
Min. operating temperature (static)   -30 °C     Max. operating temperature (fixed)   80 °C     Operating temperature min. (dynamic)   -5 °C     Operating temperature max. (dynamic)   80 °C     UV resistance   DIN EN ISO 4892-2 A     Flame resistance   IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2     chemical resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Oil resistance   DIN EN 60811-404   Good, application-related testing     Oil resistance   10 x Outer diameter	Power frequency withstand voltage power (wire - jacket)	2 kV @ 60 s
Max. operating temperature (fixed)   80 °C     Operating temperature min. (dynamic)   -5 °C     Operating temperature max. (dynamic)   80 °C     UV resistance   DIN EN ISO 4892-2 A     Flame resistance   IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2     chemical resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Oil resistance   DIN EN 60811-404   Good, application-related testing     Oil resistance   DIN EN 60811-404   Good, application-related testing	AC withstand voltage power (wire - wire)	2 kV @ 60 s
Operating temperature min. (dynamic)   -5 °C     Operating temperature max. (dynamic)   80 °C     UV resistance   DIN EN ISO 4892-2 A     Flame resistance   IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2     chemical resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Oil resistance   DIN EN 60811-404   Good, application-related testing     Oil resistance   DIN EN 60811-404   Good, application-related testing     Oil resistance   DIN EN 60811-404   Good, application-related testing	Min. operating temperature (static)	-30 °C
Operating temperature max. (dynamic)   80 °C     UV resistance   DIN EN ISO 4892-2 A     Flame resistance   IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2     chemical resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Oil resistance   DIN EN 60811-404   Good, application-related testing     Bending radius (fixed)   10 x Outer diameter	Max. operating temperature (fixed)	80 °C
UV resistance DIN EN ISO 4892-2 A   Flame resistance IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2   chemical resistance Good, application-related testing   Gasoline resistance Good, application-related testing   Oil resistance DIN EN 60811-404   Good, application-related testing   Bending radius (fixed) 10 x Outer diameter	Operating temperature min. (dynamic)	-5 °C
Flame resistance   IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2     chemical resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Oil resistance   DIN EN 60811-404   Good, application-related testing     Bending radius (fixed)   10 x Outer diameter	Operating temperature max. (dynamic)	80 °C
chemical resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Oil resistance   DIN EN 60811-404   Good, application-related testing     Bending radius (fixed)   10 x Outer diameter	UV resistance	DIN EN ISO 4892-2 A
Gasoline resistance   Good, application-related testing     Oil resistance   DIN EN 60811-404   Good, application-related testing     Bending radius (fixed)   10 x Outer diameter	Flame resistance	IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2
Oil resistance DIN EN 60811-404   Good, application-related testing   Bending radius (fixed) 10 x Outer diameter	chemical resistance	Good, application-related testing
Bending radius (fixed) 10 x Outer diameter	Gasoline resistance	Good, application-related testing
	Oil resistance	DIN EN 60811-404   Good, application-related testing
Bending radius (dynamic) 15 x Outer diameter	Bending radius (fixed)	10 x Outer diameter
	Bending radius (dynamic)	15 x Outer diameter

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