

MSUD valve plug A-18mm with cable

PUR 4x0.75 bk UL/CSA+drag ch. 3m

MSUD Form A (18 mm) 0...230 V AC/DC without components

PE opposite cable entry (0°)

Further cable lengths on request.

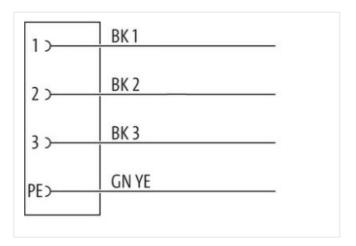
Plastic housings with good resistance against chemicals and oils.

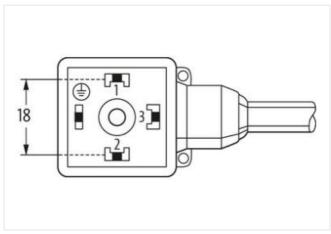
The resistance to aggressive media should be individually tested for your application. Further details on request.

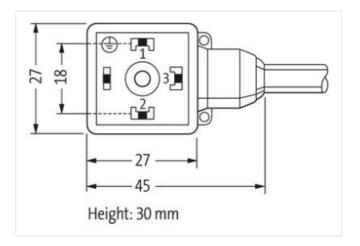
Link to Product

Illustration









Product may differ from Image











Cable length

3 m

Side 1



stay connected

| Tightening torque | 0,4 Nm |
|--|---|
| Mounting method | inserted, screwed |
| Family construction form | MSUD A |
| Thread | M3 |
| Material | PBT |
| Degree of protection (EN IEC 60529) | IP66K, 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 | 4048879286749 |
| Packaging unit | 1 |
| Electrical data Supply | |
| Operating voltage AC max. | 230 V |
| Operating voltage DC max. | 230 V |
| Current operating per contact max. | 10 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. |
| Note on bending radius | Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. |
| Conformity | |
| Product standard | DIN EN 175301-803 |
| Installation Cable | |
| Cable identification | 637 |
| Cable Type | 3 |
| Printing color of wire insulation | white (isolation black) |
| Jacket Color | black |
| | |



| stay connected |
|----------------|
| |

| wire arrangement black 1, black 2, black 3, groen-yellow Gable weight 69,3 g/m Material jacket PUR Shore hardness jacket 99 ± 5 Shore A Freedom from ingredients (jacket) 190 ± 5 Shore A Guiter diameter (jacket) 6,5 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 4 Quiter diameter (sheath) ± 5 % Material wire insulation PP Material wire insulation 1,85 mm Quiter diameter (sheath) ± 5 % Shore D me insulation 1,85 mm Quiter diameter (sheath) ± 5 % Shore hardness wire insulation 1,85 mm Quiter diameter (sheath) 1,85 mm Quiter diameter (sh | Amount stranding | 1 |
|--|---|--|
| Cable weight 69,3 g/m Material jacket PUR Shrow hardnoss jacket 90 ± 5 Shore A Freedom from impedients (jacket) 190 ± 5 Shore A Freedom from impedients (jacket) 190 ± 5 Shore A Freedom from impedients (jacket) 190 ± 5 Shore A Freedom from impedients (jacket) 190 ± 5 Shore A Outer-diameter (jacket) 190 ± 5 Shore A Material wire insulation 19P Material wire insulation 19P Amount wires 4 Outer diameter insulation 1,85 mm Outer diameter insulation 70 ± 5 Shore D Shore hardness wire insulation 190 ± 5 Shore D Shore hardness wire insulation 190 ± 5 Shore D Shore hardness wire insulation 190 ± 5 Shore D Finding odor of wire insulation 190 ± 5 Shore D Shore hardness wire insulation 1 | Stranding | 4 wires twisted |
| Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer diameter (jacket) 6,5 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amustrial wire insulation 1,85 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Ingredient freeness wire insulation vibit (solation black) Amount strands (wire) 42 Diameter of single wires 0,15 mm Conductor of single wires 0,15 mm Conductor vive Stranded copper wire, bare Conductor type (wire) 9,75 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 min. wire 26 Ω Ω Ω 00 °C Electrial resistance line constant wire 26 Ω Ω Ω 0 | wire arrangement | black 1, black 2, black 3, green-yellow |
| Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) lead-free, caminium-free, CFC-free, halogen-free, silicone-free Uouter-diameter (jacket) £ 5 % Material wire insulation PP Amount wires 4 Outer diameter insulation 1,85 mm Outer diameter tolerance core insulation 1,85 mm Outer diameter tolerance core insulation 1,85 mm Outer diameter tolerance core insulation 25 % Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation white (solation black) Printing color of wire insulation white (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 Onductor 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 wire. wire 9,8 & Electrical resistance line constant wire 9,6 km @ 20 °C < | Cable weigth | 69,3 g/m |
| Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free | Material jacket | PUR |
| Outer-diameter (jacket) 6.5 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 4 Outer diameter insulation 1,85 mm Shore hardness wire 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 (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) (brizzontal Current load capacity (standard) to DIN VDE 0298-4 Current load capacity wirin, wire 9,6 A Electrical resistance line constant wire 26 Ω/km @ 20 °C Nominal voltage power (wire - wire) 2.5 kV @ 60 s Min. operating temperature (fixed) 30 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) 30 °C / 90 °C | Shore hardness jacket | 90 ± 5 Shore A |
| Tolerance outer diameter (sheath) | Freedom from ingredients (jacket) | lead-free, cadmium-free, CFC-free, halogen-free, silicone-free |
| Material wire insulation PP Amount wires 4 Outer diameter insulation 1,85 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Printing color of wire insulation white (isolation black) Amount strands (wire) 42 Diameter of single wires 0,15 mm Conductor research (wire) 9,75 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 Current load capacity min. wire 9,6 A Power frequency 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 Max. operating temperature (mixed) 80 °C / 90 °C @ 100000 h Operation Operating temperature max. | Outer-diameter (jacket) | 6,5 mm |
| Amount wires 4 Outer diameter insulation 1,85 mm Outer diameter insulation 2 5 % Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation 1 ead-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 yive (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 9,6 A Electrical resistance line constant wire 26 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 Operating temperature (static) 80 °C,90 °C @ 10000 h Operation Operating temperature max. (dynamic) 80 °C,90 °C @ 10000 h Operation Ut vesistance DIN EN SO 4892-2 A Flame resistance UL 1581 § 1100 FT2 EC 60332-2-2 UL 1581 § 1090 chemical resistance DIN EN 6081-4104 Good, application-related testing No. of bending cycles (C-track) 10 | 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 reness 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 rossessection (wire) 9.75 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 min. wire 9.6 A Electrical resistance line constant wire 26 Okm @ 20 °C Nominal voltage power AC max. 300 ∨ Power frequency 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 UV resistance DIN EN ISO 4892-2 A Flame resistance UL 1581 § 1100 FT2 IEC 60032-2-2 UL 1581 § 1090 | 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 crosssection (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 (standard) to DIN VDE 0298-4 Current load capacity win. wire 96 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 Max. operating temperature (static) -40 °C Max. operating temperature mix. (dynamic) 25 °C Operating temperature mix. (dynamic) 80 °C / 90 °C @ 10000 h Operation Ut resistance DIN EN ISS 0 4892-2 h Flame resistance UL 1581 § 1100 FT2 IEC 60332-2·2 UL 1581 | Amount wires | 4 |
| 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 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 Current load capacity min. wire 9.6 A Electrical resistance line constant wire 80 Ω/km @ 20 °C Nominal voltage power AC max. 300 V Power frequency withstand voltage power (wire - wire) 2.5 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (static) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Flame resistance Good, application | 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 Conductor type (wire) strand class 6 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 9,6 A Electrical resistance line constant wire 26 D/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 Min. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Flame resistance Good, application-related testing Gasoline resistance DIN EN ISO 4892-2 b UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Oil resistance DIN EN ISO 4891-404 Good, application-related testing No. of bending cycles (C-track) 10 Mio. @ 25 °C Bending radius (fixed) 5 x Outer diameter Bending radius (fixed) 5 x Outer diameter Bending radius (fixed) 5 x Outer diameter No. of torsion cycles 3 5 cycles/min | 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 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 9.6 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 Min. operating temperature (static) -40 °C Max. operating temperature (static) 40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing | Shore hardness wire insulation | 70 ± 5 Shore D |
| 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 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 9.6 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 Min. 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 UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related t | 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 0298-4 Current load capacity min. wire 9.6 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 Min. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Max operating temperature (mixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (dynamic) 25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Toperation UV resistance DIN EN ISO 4892-2 A Flame resistance UL 1581 § 110 FT IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-r | 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 min. wire 9,6 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 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) -25 °C Uz resistance DIN EN ISO 4892-2 A Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing No. of bending cycles (C-track) 10 Mio. @ 25 °C Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter | 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 (standard) 59.6 A Electrical resistance line constant wire 9.6 A Electrical resistance lone constant wire 26 Ω/km @ 20 °C Nominal voltage power AC max. 300 V Power frequency withstand voltage power (wire - avire) 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 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 UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance DIN EN 60811-404 Good, application-related testing No. of bending cycles (C-track) 10 Mio. @ 25 °C Bending radius (fixed) 5 × Outer diameter Bending radius (dynamic) 10 × Outer diameter No. of torsion cycles 2 Mio. Torsion speed 35 cycles/min | Diameter of single wires | 0,15 mm |
| 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 9,6 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) 4.5 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 UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing No. of bending cycles (C-track) 10 Mio. @ 25 °C Bending radius (fixed) 5 × Outer diameter Bending radius (fynamic) 10 × Outer diameter Bending radius (dynamic) 2 Mio. | Conductor crosssection (wire) | 0,75 mm² |
| Traversing distance (C-track) 10 m @ 25 °C horizontal Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 9,6 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 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 UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing No. of bending cycles (C-track) 10 Mio. @ 25 °C Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of torsion cycles 2 Mio. Torsion speed | Material conductor wire | Stranded copper wire, bare |
| Current load capacity (standard) Current load capacity min. wire 9,6 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 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) BO NEN ISO 4892-2 A Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance DIN EN 60811-404 Good, application-related testing No. of bending cycles (C-track) 10 Mio. @ 25 °C Bending radius (fixed) 5 x Outer diameter No. of torsion cycles 2 Mio. Torsion speed | Conductor type (wire) | strand class 6 |
| Current load capacity min. wire 9,6 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) ajacket) 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 UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing No. of bending cycles (C-track) 10 Mio. @ 25 °C 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 | 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 - wire) 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 UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance DIN EN 60811-404 Good, application-related testing No. of bending cycles (C-track) 10 Mio. @ 25 °C 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 | Current load capacity (standard) | to DIN VDE 0298-4 |
| Nominal voltage power AC max. 300 V Power frequency withstand voltage power (wire - gacket) 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 UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Oil resistance DIN EN 60811-404 Good, application-related testing No. of bending cycles (C-track) 10 Mio. @ 25 °C Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of torsion cycles 2 Mio. Torsion speed | Current load capacity min. wire | 9,6 A |
| Power frequency withstand voltage power (wire - jacket) 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 UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Oil resistance DIN EN 60811-404 Good, application-related testing No. of bending cycles (C-track) 10 Mio. @ 25 °C Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of torsion cycles 2 Mio. Torsion speed | Electrical resistance line constant wire | 26 Ω/km @ 20 °C |
| (wire - jacket) AC withstand voltage power (wire - wire) AC withstand voltage power (withstand voltage power (with | Nominal voltage power AC max. | 300 V |
| 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 UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Oil resistance DIN EN 60811-404 Good, application-related testing No. of bending cycles (C-track) 10 Mio. @ 25 °C Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of torsion cycles 2 Mio. Torsion speed | Power frequency withstand voltage power (wire - jacket) | 2,5 kV @ 60 s |
| Max. operating temperature (fixed) 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 UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing No. of bending cycles (C-track) 10 Mio. @ 25 °C Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of torsion cycles 2 Mio. Torsion speed | AC withstand voltage power (wire - wire) | 2,5 kV @ 60 s |
| Operating temperature min. (dynamic) Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Oil resistance DIN EN 60811-404 Good, application-related testing No. of bending cycles (C-track) DIN EN 60811-404 Good, application-related testing No. of bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of torsion cycles 35 cycles/min | Min. operating temperature (static) | -40 °C |
| Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing No. of bending cycles (C-track) 10 Mio. @ 25 °C 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 | Max. operating temperature (fixed) | 80 °C / 90 °C @ 10000 h Operation |
| UV resistance DIN EN ISO 4892-2 A Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing No. of bending cycles (C-track) 10 Mio. @ 25 °C 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 | Operating temperature min. (dynamic) | -25 °C |
| Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Oil resistance DIN EN 60811-404 Good, application-related testing No. of bending cycles (C-track) 10 Mio. @ 25 °C Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of torsion cycles 2 Mio. Torsion speed UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 Good, application-related testing 10 Mio. @ 25 °C 2 Mio. | Operating temperature max. (dynamic) | 80 °C / 90 °C @ 10000 h Operation |
| chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing No. of bending cycles (C-track) 10 Mio. @ 25 °C 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 | UV resistance | DIN EN ISO 4892-2 A |
| Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing No. of bending cycles (C-track) 10 Mio. @ 25 °C 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 | Flame resistance | UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 |
| Oil resistance DIN EN 60811-404 Good, application-related testing No. of bending cycles (C-track) 10 Mio. @ 25 °C 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 |
| No. of bending cycles (C-track) 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 | 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 | Oil resistance | DIN EN 60811-404 Good, application-related testing |
| Bending radius (dynamic) 10 x Outer diameter No. of torsion cycles 2 Mio. Torsion speed 35 cycles/min | No. of bending cycles (C-track) | 10 Mio. @ 25 °C |
| 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 |