

MSUD valve plug A-18mm with cable

PUR 5x0.75 gy UL/CSA+drag ch. 1.5m

MSUD Form A (18 mm) 24 V DC ±25% LED (red/green)

for pressure switches

Further cable lengths on request.

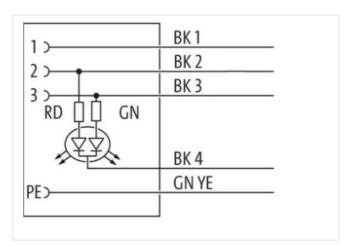
Plastic housings with good resistance against chemicals and oils.

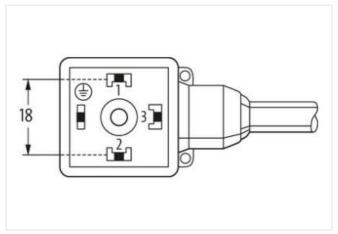
The resistance to aggressive media should be individually tested for your application. Further details on request.

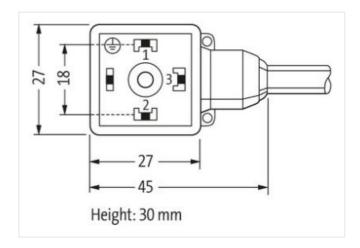
Link to Product

Illustration









Product may differ from Image









Cable length

1,5 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: 2024-06-03



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-6.1	27279218
ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0	27060312
ECLASS-10.1	27060312
ECLASS-11.1	27060312
ECLASS-12.0	27060312
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879190459
Packaging unit	1
Electrical data Supply	
Operating voltage DC	24 V
Operating voltage DC min.	18 V
Operating voltage DC max.	30 V
Current operating per contact max.	4 A
Installation Connection	
Mounting set	M3
Device protection Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	0,8 kV
Material group (IEC 60664-1)	1
Mechanical data Material data	
Coating of fitting	verzinkt
Color housing	black
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.
Installation Cable	
wire arrangement	black 1, black 2, black 3, green-yellow, black 4
Cable identification	238
Cable Type	3
Printing color of wire insulation	white (isolation black)

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stay connected

Amount stranding 1 Stranding 5 wires around Core filler twisted Filler yes wire arrangement biack 1, black 2, black 3, green-yellow, black 4 Cable weight 81.4 g/m Material jacket PUR Share handnass jacket PUR Amount wires Duter diameter (jacket) 1 Share handnass wire suitabliation PUR Amount wires 5 Souter diameter insulation PUR Amount wires 5 Share handnass wire insulation 70 ± 5 Shore D Share handnass wire insulation 70 ± 5 Shore D Share handnass wire insulation 70 ± 5 Shore D Share handnass wire insulation white (solation black) Manual strands (wire) 42 Diameter of single wires 0,15 mm Conductor roressection (wire) 0,75 mm² Material conductor wire Conductor yer wire sessection (wire) 0,75 mm² Material conductor wire Conductor yer wire sessection (wire) 1,5 mm Conductor dropacty (standard) 1,5 mm Conductor dropacty (standard) 1,5 mm Conductor yer wire) 2,5 kW @ 60 s Power frequency withstand voltage (wire - sicket) 1,5 mm @ 0.7 c mm² Max. operating temperature (islati) 4,4 m² C Operating temperature min. (dynamic) 2,5 kW @ 60 s Power frequency withstand voltage (wire - sicket) 1,5 mm @ 0.7 c @ 10000 h Operation Operating temperature min. (dynamic) 2,5 kW @ 60 s Power frequency withstand voltage (wire - sicket) 4,0 m² C Operating temperature min. (dynamic) 2,5 kW @ 60 s Power frequency withstand voltage (wire - sicket) 1,5 mm @ 0.7 c @ 10000 h Operation Operating temperature min. (dynamic) 2,5 kW @ 60 s Operating temperature min. (dynamic) 3,5 kW @ 60 s Operating temperature min. (dynamic) 4,0 m² C Operating temperature min. (dynamic) 5,5 kW @ 60 s Operating temperature min. (dynamic) 5,5 kW @ 60 s Operating te	Jacket Color	gray
Stranding 5 wires around Core filler twisted Filler yes wire arrangement block 1, black 2, black 3, green-yellow, black 4 Cable weight 81.4 g/m Material jacket 90.5 Shore A Freedom from ingredients (jacket) 90.5 Shore A Freedom from ingredients (jacket) 7 mm Tolerance outer diameter (scheath) 1.5 % Material wire insulation PP Material packet 1.5 % Material wire insulation PP Amount wires 5 Coulter diameter (scheath) 1.5 mm Coulter diameter (jacket) 7.5 mm Tolerance outer diameter insulation PP Material wire insulation PP Material wire insulation 1.5 mm Coulter diameter tolerance core insulation 1.5 mm Counter diameter tolerance core insulation 1.6 mm Marchial consideration wire insulation 1.6 mm Marchial conductor wire insulation 1.6 mm Amount strands (wire) 42 Diameter of single wires 0,15 mm Conductor trossection (wire) 0,15 mm Conductor trossection (wire) 0,15 mm Material conductor wire 1.5 stranded cooper wire, bare Conductor type (wire) 1.5 mm Courrent load capacity (standardr) 1.5 kW @ 60 s Morninal violage AC max. 300 V Current load capacity (standardr) 1.5 kW @ 60 s Min. operating temperature (stad) 80 °C / 90 °C @ 10000 h Cperation Coperating temperature max. (kymamic) 2.5 kW @ 60 s Min. operating temperature max. (kymamic) 2.5 kW @ 60 s Min. operating temperature max. (kymamic) 2.5 °C © 0.00, application-related testing 10 IN EN 6031-404 Coll resistance 1.5 km of the diameter 1.5	Type of Certificate	cURus
Filler yes wire arrangement black 1, black 2, black 3, green-yellow, black 4 Cable weigh 81,4 g/m Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ignordents (gacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer diameter (jacket) 7 mm Toterance outer diameter (sheath) 15 % Material wire insulation PP Amount wires 5 Outer diameter insulation 1,85 mm Outer diameter insulation 1,85 mm Outer diameter insulation 1,85 mm Outer diameter insulation 1,55 mm Outer diameter of the insulation 1,55 mm Outer diameter 0,50 mm Outer 0,50 mm Out	Amount stranding	1
wire arrangement black 1, black 2, black 3, green-yellow, black 4 Gable weight 81,4 g/m Material jacket PUR Shore hardness jacket 99 ± 5 Shore A Freedom from ingredients (jacket) 17 mm Tolerance outer diameter (jacket) 1 ± 5 % Material wire insulation PP Amount wires 5 Outer diameter (jacket) 1 ± 5 % Material wire insulation PP Amount wires 5 Outer diameter (jacket) 1 ± 5 % Material wire insulation PP Amount wires 5 Outer diameter (jacket) 1 ± 5 % Material wire insulation 1,85 mm Outer diameter (jacket) 1 ± 5 % Shore hardness wire insulation 1,85 mm Outer diameter insulation 1,85 mm Outer diameter insulation 1 ± 5 % Shore hardness wire insulation 70 ± 5 Shore D Ingredient feeness wire insulation wire insulation white (isolation black) Amount strands (wire) 42 Diameter of single wires 0,15 mm Conductor or insulation wire insula	Stranding	5 wires around Core filler twisted
Cable weigh 81.4 g/m Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, sillcone-free Outer-diameter (jacket) 7 mm Torterance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 5 Outer diameter insulation 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 Freed free, cadmium-free, CFC-free, halogen-free, silicone-free Printing color of wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation Freed free, cadmium-free, CFC-free, halogen-free, silicone-free Printing color of wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation 70 ± 5 Shore D Minarch set insulation 70 ± 5 Shore D Ingredient freeness wire insulation 70 ± 5 Shore D Ingredient freeness wire i	Filler	yes
Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from lingredients (jacket) 7 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 5 Outer diameter insulation 1,85 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 1,85 mm Ingredient freeness wire insulation 16 5 % Shore hardness wire insulation 10 ± 5 Shore D Ingredient freeness wire insulation 10 ± 5 Shore D Ingredient freeness wire insulation white (solation black) Amount strands (wire) 42 Diameter of single wires 0, 15 mm Conductor or sessection (wire) 0, 25 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) 5 mand class 6 Nominal voltage AC max 300 V Current load capacity min. wire 8,4 A Electrical resistance line constant wire 25 Dkm @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s <	wire arrangement	black 1, black 2, black 3, green-yellow, black 4
Shore hardness jacket 90 ± 5 Shore A	Cable weigth	81,4 g/m
Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free	Material jacket	PUR
Outer-diameter (jacket) 7 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 5 Outer diameter insulation 1,85 mm Outer diameter 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 (vire) 0,75 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal vollage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) 25 kV @ 60 s Power frequency withstand voltage (wire - wire) 25 kV @ 60 s Power frequency withstand voltage (wire - wire) 25 kV @ 60 s Power frequency withstand voltage (wire - wire) 25 °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 5 Outer diameter insulation 1,85 mm Outer diameter tolerance core insulation 25 % 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 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 8,4 A Electrical resistance line constant vire 2,5 kV @ 60 s AC withstand vollage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - isolate) 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 O	Outer-diameter (jacket)	7 mm
Amount wires 5 Outer diameter insulation 1,85 mm Outer diameter insulation 2 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 ye (wire) strand class 6 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Electrical resistance line constant wire 26 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - 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) 225 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Gasoline resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance (C-track) 10 m@ 25 °C Traversing distance (C-track) 10 m@ 25 °C Torsion stress ± ±180 °/m	Tolerance outer diameter (sheath)	± 5 %
Outer diameter insulation 1,85 mm Outer diameter blerance core insulation ± 5 % Shore hardness wire insulation 10± 5 Shore D Ingredient freeness wire insulation white (isolation black) Printing color of wire insulation white (isolation black) Amount strands (wire) 42 Diameter of single wires 0,15 mm Conductor rosssection (wire) 0,75 mm² Meterial conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 8.4 A Electrical resistance line constant wire 2.5 kV @ 60 s Power frequency withstand voltage (wire - wire) 2.5 kV @ 60 s Power frequency withstand voltage (wire - iacke) 2.5 kV @ 60 s Min. 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 Oil resistance Good, application-related testing Gas	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 Nominal voltage AC max. 300 V Current load capacity min. wire 8.4 A Electrical resistance line constant wire 26 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - iacket) 2,5 kV @ 60 s Min. operating temperature (static) 40 °C Max. operating temperature min. (dynamic) 25 °C Operating temperature min. (dynamic) 25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Flame resistance U. 1581 § 1909 I UL 1581 § 1100 FT2 IEC 60332-2-2 chemical resistance Good, application-related testin	Amount wires	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 Nominal voitage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 8.4 A Electrical resistance line constant wire 2.5 kV @ 60 s AC withstand voltage (wire - vivire) 2.5 kV @ 60 s Power frequency withstand voltage (wire - vivire) 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) 80 °C / 90 °C @ 10000 h Operation Flame resistance UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance	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 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 8,4 A Electrical resistance line constant wire 26 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - wire) Jacket) - 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) 80 °C / 90 °C @ 10000 h Operation Derestistance UL 1581 § 1090 UL 1581 § \$1100 FT2 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Dil resistance Good, application-related testing Bending radius (fixed) 5 × Outer diameter No. of bending cycles (C-track) 10 Mio. @ 25 °C Traversing distance (C-track) 10 Mio. @ 25 °C Traversing distance (C-track) 3 m/s @ 25 °C Traversing distance (C-track) 3 m/s @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± ± 180 °/m	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 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 8,4 A Electrical resistance line constant wire 26 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - iacket) 40 °C Max. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Flame resistance UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 × Outer diameter	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 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) 26 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - isacket) 80 °C / 90 °C @ 10000 h Operation Operating temperature (state) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Plame resistance UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2 chemical resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance Good, application-related testing PIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bood of C-track) 10 m @ 25 °C Traversing distance (C-track) 10 m @ 25 °C Traversing distance (C-track) 3 mis @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	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 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 8,4 A Electrical resistance line constant wire 26 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - giacket) 2,5 kV @ 60 s Min. operating temperature (static) 40 °C Max. operating temperature (static) 40 °C Max. operating temperature min. (dynamic) 25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Flame resistance UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oli resistance Good, application-related testing Oli resistance Good, application-related testing Oli resistance Good, application-related testing <t< td=""><td>Printing color of wire insulation</td><td>white (isolation black)</td></t<>	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 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 8.4 A Electrical resistance line constant wire 26 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - alcohol) 2,5 kV @ 60 s Power frequency withstand voltage (wire - wire) 2,5 kV @ 60 s Min. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Coperating temperature max. (dynamic) 25 °C Operating teresistance UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance	Amount strands (wire)	42
Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 8,4 A Electrical resistance line constant wire 26 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2.5 kV @ 60 s Power frequency withstand voltage (wire - iacket) 40 °C Max. 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 Flame resistance UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (fixed) 10 x Outer diameter No. of bending cycles (C-track) 10 m @ 25 °C horizontal Traver singe distance (C-track) 10 m @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± ±180 °/m	Diameter of single wires	0,15 mm
Conductor type (wire) strand class 6 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 8,4 A Electrical resistance line constant wire 26 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2.5 kV @ 60 s Power frequency withstand voltage (wire - jacket) 40 °C Min. operating temperature (static) 40 °C Max. operating temperature (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 Flame resistance UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 × Outer diameter Bending radius (fixed) 5 × Outer diameter Bending radius (dynamic) 10 × Outer diameter No. of bending cycles (C-track) 10 Mio. @ 25 °C Traversing distance (C-track) 10	Conductor crosssection (wire)	0,75 mm ²
Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 8,4 A Electrical resistance line constant wire 26 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - aick) iacket) 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 Flame resistance UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing Bending radius (fixed) 5 x Outer diameter No. of bending cycles (C-track) 10 m @ 25 °C Traversing distance (C-track) 10 m @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Material conductor wire	Stranded copper wire, bare
Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 8,4 A Electrical resistance line constant wire 26 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - jacket) 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 Flame resistance UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter No. of bending cycles (C-track) 10 x Outer diameter No. of bending cycles (C-track) 10 m @ 25 °C horizontal Travel speed (C-track) 3 m/s @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Conductor type (wire)	strand class 6
Current load capacity min. wire 8,4 A Electrical resistance line constant wire 26 \(\Omega \) / \(\mathbb{M} \) \(\omega \) \(\ome	Nominal voltage AC max.	300 V
Electrical resistance line constant wire 26 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - jacket) 2,5 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Flame resistance UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 10 Mio. @ 25 °C Traversing distance (C-track) 10 m @ 25 °C horizontal Travel speed (C-track) 3 m/s @ 25 °C No. of torsion cycles ± 180 °/m	Current load capacity (standard)	to DIN VDE 0298-4
AC withstand voltage (wire - wire) 2.5 kV @ 60 s Power frequency withstand voltage (wire - jacket) Min. operating temperature (static) 40 °C Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature min. (dynamic) Operating temperature max. (dynamic) Operating temperature max. (dynamic) UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 10 m @ 25 °C Traversing distance (C-track) 10 m @ 25 °C horizontal Travel speed (C-track) 3 m/s @ 25 °C No. of torsion cycles ± 180 °/m	Current load capacity min. wire	8,4 A
Power frequency withstand voltage (wire - jacket) Min. operating temperature (static) Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature max. (dynamic) Operating temperature min. (dynamic) Operating temperature max. (dynamic) Operating temperature min. (dynamic) Operating temperature	Electrical resistance line constant wire	26 Ω/km @ 20 °C
All of C Max. operating temperature (fixed) Max. operating temperature (fixed) Max. operating temperature min. (dynamic) Operating temperature min. (dynamic) Operating temperature max. (dynamic) Flame resistance UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2 Chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 10 m @ 25 °C Traversing distance (C-track) 10 m @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	AC withstand voltage (wire - wire)	2,5 kV @ 60 s
Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Flame resistance UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 10 Mio. @ 25 °C Traversing distance (C-track) 10 m @ 25 °C horizontal Travel speed (C-track) 3 m/s @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Power frequency withstand voltage (wire - jacket)	2,5 kV @ 60 s
Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Flame resistance UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 10 Mio. @ 25 °C Traversing distance (C-track) 10 m @ 25 °C horizontal Travel speed (C-track) 3 m/s @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Min. operating temperature (static)	-40 °C
Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Flame resistance UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 10 Mio. @ 25 °C Traversing distance (C-track) 10 m @ 25 °C horizontal Travel speed (C-track) 3 m/s @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
Flame resistance UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 10 Mio. @ 25 °C Traversing distance (C-track) 10 m @ 25 °C horizontal Travel speed (C-track) 3 m/s @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Operating temperature min. (dynamic)	-25 °C
Chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 10 Mio. @ 25 °C Traversing distance (C-track) 10 m @ 25 °C horizontal Travel speed (C-track) 3 m/s @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Operating temperature max. (dynamic)	·
Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 10 Mio. @ 25 °C Traversing distance (C-track) 10 m @ 25 °C horizontal Travel speed (C-track) 3 m/s @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Flame resistance	UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2
Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 10 Mio. @ 25 °C Traversing distance (C-track) 10 m @ 25 °C horizontal Travel speed (C-track) 3 m/s @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	chemical resistance	Good, application-related testing
Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 10 Mio. @ 25 °C Traversing distance (C-track) 10 m @ 25 °C horizontal Travel speed (C-track) 3 m/s @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Gasoline resistance	Good, application-related testing
Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 10 Mio. @ 25 °C Traversing distance (C-track) 10 m @ 25 °C horizontal Travel speed (C-track) 3 m/s @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Oil resistance	Good, application-related testing DIN EN 60811-404
No. of bending cycles (C-track) 10 Mio. @ 25 °C Traversing distance (C-track) 10 m @ 25 °C horizontal Travel speed (C-track) 3 m/s @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Bending radius (fixed)	
Traversing distance (C-track) 10 m @ 25 °C horizontal Travel speed (C-track) 3 m/s @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Bending radius (dynamic)	
Travel speed (C-track) 3 m/s @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	No. of bending cycles (C-track)	10 Mio. @ 25 °C
No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Traversing distance (C-track)	
Torsion stress ± 180 °/m	Travel speed (C-track)	3 m/s @ 25 °C
	No. of torsion cycles	2 Mio.
Torsion speed 35 cycles/min	Torsion stress	± 180 °/m
	Torsion speed	35 cycles/min