

MSUD valve plug CI-9.4mm with cable

PUR 3x0.75 gy UL/CSA+drag ch. 20m

MSUD

The resistance to aggressive media should be individually tested for your application. Further details on request. Form CI (9.4 mm)

0...230 V AC/DC

without components

3-pole

Bridged PE

without cable sleeves

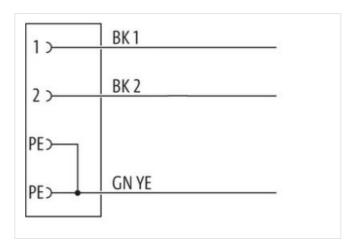
Further cable lengths on request.

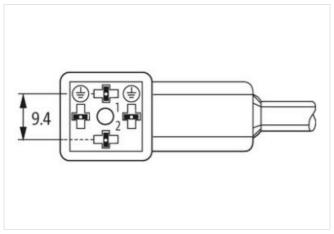
Plastic housings with good resistance against chemicals and oils.

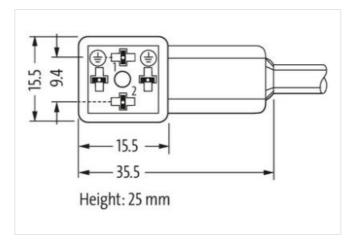
Link to Product

Illustration









Product may differ from Image





stay connected

Cable length	20 m
Side 1	
Tightening torque	0.4 Nm
Thread	M3
Commercial data	
ECLASS-6.0	27279218
ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0 ECLASS-10.1	27060311
ECLASS-10.1	27060312 27060312
ECLASS-11.1	27060312
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879475747
Packaging unit	1
Electrical data Supply	200 V
Operating voltage AC max.	230 V
Operating voltage DC max.	230 V
Current operating per contact max.	6 A
Device protection Electrical	
Degree of protection (EN IEC 60529)	IP67
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	4 kV
Material group (IEC 60664-1)	I
Mechanical data	
Contour for corrugated hose	without
Mechanical data Material data	
Coating locking	verzinkt
Color housing	black
Material gasket	PUR
Material housing	PBT
Locking material	Steel
Mechanical data Mounting data	
	inserted, screwed
Mounting method	moorteu, ooleweu
Environmental characteristics Climatic	
Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
Important installation notes	asportant of case quanty
	asponding on subject quality
Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Note on strain relief Note on bending radius	
	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be
Note on bending radius	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Note on bending radius Installation Cable	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be
Note on bending radius Installation Cable wire arrangement	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. black 1, black 2, green-yellow
Note on bending radius Installation Cable wire arrangement Cable identification Cable Type	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. black 1, black 2, green-yellow 236
Note on bending radius Installation Cable wire arrangement Cable identification	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. black 1, black 2, green-yellow 236

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: 2024-06-23



stay connected

Safe weight Sef. 1 g/m S	Amount stranding	1
Sable weigh 56.1 g/m Valardrail jacket PUR All sardrail jacket 90.1.5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, sillicone-free Duter-diameter (jacket) 5.9 mm Orderance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 3 Duter diameter insulation 1,85 mm Duter diameter insulation 70 ± 5 Shore D Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation 70 ± 5 Shore D White for church of the form in sulation 70 ± 5 Shore D Store for free, halogen-free, sillicone-free Silicone-free <th>Stranding</th> <th>3 wires twisted</th>	Stranding	3 wires twisted
Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ligoridents (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 5,9 mm Folkmance outer diameter (scheath) ± 5 % Akterial wire insulation PP Amount wires 3 Outer diameter brievalation 1,85 mm User diameter brievalation 1,85 mm Shore hardness wire insulation 1,85 mm Outer diameter brievance or insulation 10 ± 5 Shore D Ingrediant freeness wire insulation 10 ± 5 Shore D Ingrediant freeness wire insulation white (solation black) Amount strands (wire) 42 Diameter of single wires 0,15 mm Conductor type (wire) 0,75 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Normetro dad capacity min. wire 12 A Current load capacity min. wire 12 A Euchtral existence line constant wire 26 Dkm @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 6	wire arrangement	black 1, black 2, green-yellow
Shore hardness jacket 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, silicone-free, silicone-free, silicone-free, silicone-free, silicone-free, silicone-free, silicone-free, silicone-free	Cable weigth	56,1 g/m
lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 5,5 mm	Material jacket	PUR
Duter-diameter (jacket) 5,9 mm Folerance outer diameter (sheath) ± 5 % Amount wires 3 Duter diameter insulation 1,85 mm Duter diameter insulation 1,85 mm Shore hardness wire insulation 70 ± 5 Shore D Shore hardness wire insulation 184 He, 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 Walderial conductor wire Stranded copper wire, bare Conductor type (wire) stranded copper wire, bare Contract viving 300 V 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 AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - acket) 40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (dynamic) 9.25 °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 3 Duter diameter insulation 1,85 mm Duter diameter tolerance core insulation 70 ± 5 Shore D Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation white (isolation black) Amount strands (wire) 42 Diameter of single wires 0.15 mm Conductor of single wires 0.15 mm Conductor vire Stranded copper wire, bare Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max. 300 V Corrent 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 Ωkm @ 20 °C AC withstand voltage (wire - wire) 2.5 kV @ 60 s Power frequency withstand voltage (wire - acket) 40 °C Max. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Max. operating temperature (max.	Outer-diameter (jacket)	5,9 mm
Amount wires 3 Duter diameter insulation 1,85 mm 1,85 mm 20	Tolerance outer diameter (sheath)	± 5 %
Duter diameter insulation 1,85 mm Duter diameter tolerance core insulation ± 5 % Shore hardness wire insulation 70 ± 5 Shore D grapedient 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 single wires 0.75 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Mominal voltage AC max. 300 V Courrent load capacity standard) to DIN VDE 0298-4 Current load capacity wins. wire 12 A Electrical resistance line constant wire 26 Qkm @ 20 °C AC withstand voltage (wire - wire) 2.5 kV @ 60 s Power frequency withstand voltage (wire - acket) 2.5 kV @ 60 s Winc. 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 Elame resistance Good, application-related testing Gasoline resista	Material wire insulation	PP
Duter diameter tolerance core insulation ± 5 % Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation white (isolation black) Amount strands (wire) 42 Diameter of single wires 0,15 mm Conductor crosssection (wire) 0,75 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity wini. wire 12 A Electrical resistance line constant wire 26 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - acket) 2,5 kV @ 60 s Vinin. operating temperature (static) 40 °C Min. operating temperature (static) 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 U. L 1581 § 1090 IEC 60032-2-2 U. L 1581 § 1100 FT2 Hemical resistance Good, application-related testing	Amount wires	3
Shore hardness wire insulation 70 ± 5 Shore D predient 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 12 A Electrical resistance line constant wire 26 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2.5 kV @ 60 s Power frequency withstand voltage (wire - acket) Max. operating temperature (static) 40 °C Max. operating temperature (static) 40 °C Max. operating temperature min. (dynamic) 25 °C Deperating temperature max. (dynamic) 30 °C /90 °C @ 10000 h Operation 1-lame resistance Good, application-related testing 3asoline resistance Good, application-related testing 3asoline resistance DIN EN 60811-404 Good, application-related testing 3anoline resistance DIN EN 60811-404 Good, application-related testing 3anoling radius (fixed) 5 x Outer diameter No. of bending radius (dynamic) 10 x Outer diameter No. of bending radius (dynamic) 10 x Outer diameter 10 to x Outer diameter 10 x Outer diameter 10 to x Outer	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 Donductor type (wire) strand class 6 Donductor type (wire) strand class 6 Donductor type (wire) strand class 6 Donductor graph (isolation) to DIN VDE 0298-4 Durrent load capacity (standard) to DIN VDE 0298-4 Durrent load capacity min. wire 12 A Current load capacity min. wire 26 Ω/km @ 20 °C ACC withstand voltage (wire - wire) 2,5 kV @ 60 s Dower frequency withstand voltage (wire - wire) 2,5 kV @ 60 s Dower frequency withstand voltage (wire - wire) 2,5 kV @ 60 s Doverating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Doperating temperature max. (dynamic) -25 °C Doperating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Diresistance UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2 Chemical resistance Good, application-related testing Diresistance DIN EN 60911-404 Good, application-related testing Diresistance DIN EN 60911-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter No. of bending cycles (C-track) 10 Mio. @ 25 °C Traversing distance (C-track) 3 m/s @ 25 °C Traversing distance (C-track) 10 Mio. @ 25 °C 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 min. wire 12 A Current load capacity min. wire 12 A Electrical resistance line constant wire 26 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - acket) 80 °C / 90 °C @ 10000 h Operation Deparating temperature (istatic) -25 °C Deparating temperature (incl. (dynamic) -25 °C Deparating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Plame resistance UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing 3ending radius (fixed) 5× Outer diameter 3ending radius (fixed) 5× Outer diameter 3ending radius (dynamic) 10 × Outer diameter 3ending radius (clrack) 10 m @ 25 °C horizontal Travel speed (C-track) 3 m/s @ 25 °C 3ending radius (clrack) 3 m/s @ 25 °C 3ending routes (C-track) 4 10 m @ 25 °C horizontal Travel speed (C-track) 3 m/s @ 25 °C 3ending routes (C-track) 4 10 m @ 25 °C horizontal Travel speed (C-track) 3 m/s @ 25 °C 3ending routes (C-track) 4 10 m @ 25 °C horizontal Travel speed (C-track) 3 m/s @ 25 °C 3ending routes (C-track) 4 10 m/s @ 25 °C horizontal Travel speed (C-track) 4 10 m/s @ 25 °C horizontal Travel speed (C-track) 4 10 m/s @ 25 °C horizontal Travel speed (C-track) 4 10 m/s @ 25 °C horizontal Travel speed (C-track) 4 10 m/s @ 25 °C horizontal Travel speed (C-track) 4 10 m/s @ 25 °C horizontal Travel	Shore hardness wire insulation	70 ± 5 Shore D
Amount strands (wire) 42 Diameter of single wires 0,15 mm Conductor (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 (wire) 2,5 kV @ 60 s Celectrical resistance line constant wire 26 \(\Omega \text{km} \) @ 60 s Cover frequency withstand voltage (wire - wire) 2,5 kV @ 60 s Cover frequency withstand voltage (wire - wire) 2,5 kV @ 60 s Cover frequency withstand voltage (wire - wire) 2,5 kV @ 60 s Cover frequency withstand voltage (wire - wire) 2,5 kV @ 60 s Coverating temperature (fixed) 80 °C /90 °C @ 10000 h Operation Coverating temperature mix. (dynamic) 2.25 °C Coverating temperature max. (dynamic) 80 °C /90 °C @ 10000 h Operation Coverating temperature max. (dynamic) 80 °C /90 °C @ 10000 h Operation Coverating temperature max. (dynamic) 80 °C /90 °C @ 10000 h Operation Coverating temperature max. (dynamic) 80 °C /90 °C @ 10000 h Operation Coverating temperature max. (dynamic) 80 °C /90 °C @ 10000 h Operation Coverating temperature max. (dynamic) 80 °C /90 °C @ 10000 h Operation Coverating temperature max. (dynamic) 80 °C /90 °C @ 10000 h Operation Coverating temperature max. (dynamic) 80 °C /90 °C @ 10000 h Operation Coverating temperature max. (dynamic) 80 °C /90 °C @ 10000 h Operation Coverating temperature max. (dynamic) 80 °C /90 °C @ 10000 h Operation Coverating temperature max. (dynamic) 80 °C /90 °C @ 10000 h Operation Coverating temperature max. (dynamic) 80 °C /90 °C @ 10000 h Operation Coverating temperature max. (dynamic) 80 °C /90 °C @ 10000 h Operation Coverating temperature max. (dynamic) 80 °C /90 °C @ 10000 h Operation Coverating temperature max. (dynamic) 80 °C /90 °C @ 10000 h Operation Coverating temperature max. (dynamic) 80 °C /90 °C @ 10000 h Operation Coverating temperature max. (dynamic) 80 °C /90 °C @ 10000 h Operation Coverating temperature max	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 AG max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 12 A Electrical resistance line constant wire 26 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - acket) 2,5 kV @ 60 s Win. operating temperature (static) 40 °C Max. operating temperature (static) 40 °C Operating temperature (incl (dynamic)) 25 °C Operating temperature max. (dynamic) 30 °C / 90 °C @ 10000 h Operation Plane resistance UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2 Chemical resistance Good, application-related testing Did resistance Good, application-related testing Bending radius (fixed) 5 x Outer diameter Sending radius (fixed) 5 x Outer diameter Wo. of bending cycles (C-track) 10 Mio. @ 25 °C horizontal <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 12 A Electrical resistance line constant wire 26 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - acket) 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 Elame resistance UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2 Chemical resistance Good, application-related testing Dil resistance Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Vo. of bending cycles (C-track) 10 Mio. @ 25 °C Vo. of torsion cycles 2 Mio.	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 min. wire 12 A Electrical resistance line constant wire 26 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - acket) 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 Elame resistance UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2 Chemical resistance Good, application-related testing Gasoline resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Fraversing 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 (C-track) 3 m/s @ 25 °C No. of torsion cycles 2 Mio. Forsion 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 12 A Electrical resistance line constant wire 26 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - acket) 40 °C Win. 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 IEC 60332-2-2 UL 1581 § 1100 FT2 Chemical resistance Good, application-related testing Glading resistance Good, application-related testing Dil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (gynamic) 10 x Outer diameter Bending radius (gynamic) 10 x Outer diameter Traversing distance (C-track) 10 m @ 25 °C Traversing distance (C-track) 10 m @	Conductor crosssection (wire)	0,75 mm²
Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 12 A Electrical resistance line constant wire 26 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - acket) 40 °C Max. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Deparating temperature min. (dynamic) -25 °C Deparating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Elame resistance UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Dil resistance Good, application-related testing Dil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 × Outer diameter No. of bending cycles (C-track) 10 m @ 25 °C Traversing distance (C-track) 10 m @ 25 °C horizontal Fravel speed (C-track) 3 m/s @ 25 °C No. of torsion cycles 2 Mio. Forsion stress ± 180 °/m	Material conductor wire	Stranded copper wire, bare
Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 12 A Electrical resistance line constant wire 26 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2.5 kV @ 60 s Power frequency withstand voltage (wire - acket) 2.5 kV @ 60 s Win. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Deperating temperature min. (dynamic) -25 °C Deperating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Flame resistance UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Bending radius (fixed) 5 x Outer diameter No. of bending cycles (C-track) 10 Mio. @ 25 °C Traver sing distance (C-track) 10 Mio. @ 25 °C Travel speed (C-track) 3 m/s @ 25 °C No. of torsion cycles ± 180 °/m	Conductor type (wire)	strand class 6
Current load capacity min. wire 12 A Electrical resistance line constant wire 26 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2.5 kV @ 60 s Power frequency withstand voltage (wire - acket) 2.5 kV @ 60 s Win. 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 IEC 60332-2-2 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance DIN EN 60811-404 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 m @ 25 °C horizontal Travel speed (C-track) 3 m/s @ 25 °C No. of torsion cycles ± 180 °/m	Nominal voltage AC max.	300 V
Electrical resistance line constant wire 26 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - acket) 2,5 kV @ 60 s Win. 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 IEC 60332-2-2 UL 1581 § 1100 FT2 Chemical resistance Good, application-related testing Gasoline resistance DIN EN 60811-404 Good, application-related testing Gending radius (fixed) 5 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 - acket) 2,5 kV @ 60 s 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 IEC 60332-2-2 UL 1581 § 1100 FT2 Chemical resistance Good, application-related testing Gasoline resistance DIN EN 60811-404 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 Travel speed (C-track) 3 m/s @ 25 °C No. of torsion cycles ± 180 °/m	Current load capacity min. wire	12 A
Power frequency withstand voltage (wire - acket) 2,5 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Departing temperature min. (dynamic) -25 °C Departing temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Flame resistance UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bonding 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	Electrical resistance line constant wire	26 Ω/km @ 20 °C
Acket) 2.5 kV @ 60 s Win. 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 IEC 60332-2-2 UL 1581 § 1100 FT2 Chemical resistance Good, application-related testing Gasoline resistance Oil resistance DIN EN 60811-404 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 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	AC withstand voltage (wire - wire)	2,5 kV @ 60 s
Max. operating temperature (fixed) Deperating temperature min. (dynamic) -25 °C Deperating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Flame resistance UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2 Chemical resistance Good, application-related testing Gasoline resistance DIN EN 60811-404 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 m @ 25 °C Traversing distance (C-track) 10 m @ 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 IEC 60332-2-2 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance DIN EN 60811-404 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 m @ 25 °C horizontal Travel speed (C-track) 3 m/s @ 25 °C No. of torsion cycles ± 180 °/m	Min. operating temperature (static)	-40 °C
Departing temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Flame resistance UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2 Chemical resistance Good, application-related testing Gasoline resistance DIN EN 60811-404 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 ± 180 °/m	Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
Flame resistance UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing DIN EN 60811-404 Good, application-related testing Bending radius (fixed) Sending radius (dynamic) DIN EN 60811-404 Good, application-related testing Bending radius (dynamic) Traversing distance (C-track) Traversing distance (C-track) Travel speed (C-track) Travel speed (C-track) Travel speed (C-track) Travel speed (C-track) Traversing distance (C-track) Travel speed (C-track)	Operating temperature min. (dynamic)	-25 °C
Chemical resistance Good, application-related testing Gasoline resistance DIN EN 60811-404 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	Operating temperature max. (dynamic)	80 °C / 90 °C @ 10000 h Operation
Good, application-related testing DIN EN 60811-404 Good, application-related testing Bending radius (fixed) Sending radius (dynamic) No. of bending cycles (C-track) Traversing distance (C-track) Travel speed (C-track) 3 m/s @ 25 °C No. of torsion cycles ± 180 °/m	Flame resistance	UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2
DIN EN 60811-404 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	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	DIN EN 60811-404 Good, application-related testing
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)	5 x Outer diameter
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)	10 x Outer diameter
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)	10 m @ 25 °C horizontal
Torsion stress ± 180 °/m	Travel speed (C-track)	3 m/s @ 25 °C
	No. of torsion cycles	2 Mio.
Forsion speed 35 cycles/min	Torsion stress	± 180 °/m
	Torsion speed	35 cycles/min