

## MSUD double valve BI-11mm with cable

PUR 4x0.75 bk UL/CSA+drag ch. 10m

Form BI (11 mm) 24 V AC ±20% / DC ±25% LED and suppression Connection cable L = 150 mm Further cable lengths on request.

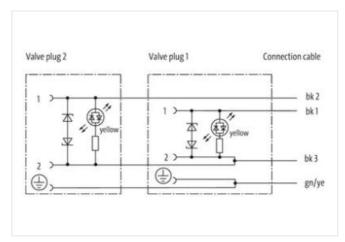
Plastic housings with good resistance against chemicals and oils.

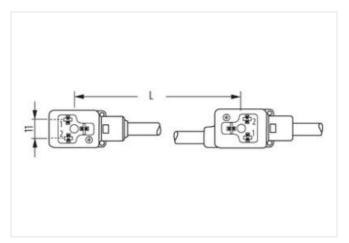
The resistance to aggressive media should be individually tested for your application. Further details on request.

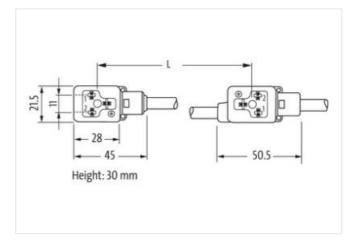
## **Link to Product**

## Illustration









Product may differ from Image



Cable length 10 m

Side 1

0,4 Nm Tightening torque



stay connected

Thread	M3
Side 2	
Tightening torque	0,4 Nm
Thread	M3
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	4048879600279
Packaging unit	1
Electrical data	
Drop-out delay time max.	20 ms
· · ·	20 1110
Electrical data   Supply	
Operating voltage AC	24 V
Operating voltage AC min.	19,2 V
Operating voltage AC max.	28,8 V
Operating voltage DC	24 V
Operating voltage DC min.	18 V
Operating voltage DC max.	30 V
Cut-off peak voltage max.	55 V
Current operating per contact max.	4 A
Current consumption max.	12 mA
Diagnostics	
Status indication LED	yellow
Device protection   Electrical	
Degree of protection (EN IEC 60529)	IP67
Additional condition protection degree	inserted, screwed
Rated surge voltage	0,8 kV
Mechanical data   Material data	
Color housing	black
Material housing	Plastic
Mechanical data   Mounting data	
, -	incerted coround
Mounting method	inserted, screwed
Environmental characteristics   Climatic	05.00
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	<b>Attention:</b> 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

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: 2024-06-26



## stay connected

Cable Type         3           Printing odor of wine insulation         white (solation black)           Jackel Color         black           Type of Certificate         c.URus           Amount standing         1           Stranding         4 wires thrested           wire a rangement         black 1, black 2, black 3, green-yellow           Cable weigh         69,3 gm           Malarial jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         6.5 mm           Tolerance outer dameter (phash)         5.5 mm           Tolerance outer dameter (phash)         4.5 %           Malarial wire insulation         PP           Amount stream         4           Outer diameter insulation         1,85 mm           Outer diameter insulation         1,55 mm           Outer diameter insulation         1,55 mm           Finance outer dameter (phash)         1.5 %           Shore hardness wire insulation         1,55 mm           Outer diameter insulation         1,55 mm           Outer diameter insulation         1,55 mm           Outer diameter insulation         1,5 % mm           Outer diameter insulation         1,5 % mm	Cable identification	637
Printing poter of wire ineutation   white (solation black)	Cable Type	3
Union		white (isolation black)
Amount stranding 1 Stranding 4 wires twisted wire arrangement black 1, black 2, black 3, green yellow 6.83 g/m Material jacket 5 Waterial packet 5 Waterial packet 5 Waterial packet 90.5 Shore A Foredom from ingredients (jacket) 1 Collex-diameter (jacket) 6.5 mm 7 Froedom from ingredients (jacket) 1.5 % 1.	Jacket Color	· · · · · · · · · · · · · · · · · · ·
Strandling	Type of Certificate	cURus
Strandling	Amount stranding	1
wire arrangement black 1, black 2, black 3, green-yellow Gable weight 69.3 g/m Material jacket PUR Shore hardness jacket 90.5 Shore A Freedom from ingredients (jacket) 6.5 mm Older-diameter (jacket) 6.5 mm Tolerance outer diameter (jacket) ± 5 % Material viro insulation PP Amount wires 4 Outer diameter insulation 70.± 5 Shore D Ingredient freeness wire insulation white (solation black) Amount strands (wire) 42 Diameter of single wires C Conductor or Sessection (wire) 0.75 mm Material conductor vire C Conductor type (wire) Stranded copper wire, bare C Conductor type (wire) short of single wires C Conductor type (wire) 150 NVIDE 0298 4 Current load capacity (slandard) 150 NVIDE 0298 4 Current load capacity (slandard) 150 NVIDE 0298 4 Current load capacity (sindardard) 150 NVIDE 0298 4 Current load capacity (sindardardardardardardardardardardardardard		4 wires twisted
Cable weight         69.3 g/m           Material jacket         PUR           Shore hardness jacket         90.4 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, sillicone-free           Outer diameter (jacket)         5,5 mm           Outer diameter diameter (sheat)         ± 5 %           Material wire insulation         PP           Annount wires         4           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         ± 5 %           Ingredient freeness wire insulation         ± 5 %           Ingredient freeness wire insulation         ± 5 %           Printing older of wire insulation         ± 5 %           Ingredient freeness wire insulation         white (solation black)           Amount strands (wire)         42           Diamater of single wires         0,15 mm           Conductor by Employee         0,75 mm²           Material conductor wire         Stranded copper wire, bare           Conductor by Employee         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		black 1, black 2, black 3, green-vellow
Material jacket         PUR           Shore hardness jackel         90 ± 5 Shore A           Freedom from predefiets (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         6,5 mm           Tolerance outer diameter (shealth)         2 5 %           Material wire insulation         PP           Amount wires         4           Outer diameter insulation         1,85 mm           Outer diameter insulation         1,55 mm           Outer diameter insulation         1,5 5 mm           Outer diameter insulation         42           Diameter diameter insulation         42           Diameter diameter insulation         0,15 mm		
Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, camium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         6,5 mm           Tolerance outer diameter (shealt)         ± 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         70 ± 5 Shore D           Ingredient freeness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         white (solation black)           Annuant strands (wire)         42           Diameter of single wires         0,15 mm           Conductor crosssection (vire)         0,75 mm²           Malerial conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand dass 6           Nominal voltage AC max         300 V           Current load capacity (strandard)         10 DN VDE 0298-4           Current load capacity (strandard)         10 DN VDE 0298-4           Current load capacity (wire)         2,5 kV @ 60 s           Power frequency withstand voltage (wire - siles)         2,5 kV @ 60 s	Material jacket	<del>-</del>
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           Amount wires         4           Outer diameter insulation         1.88 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         Index outer (jacket)           Ingredient freeness wire insulation         Index outer (jacket)           Printing color of wire insulation         white (solation black)           Amount strands (wire)         42           Diameter of single wires         0,15 mm           Conductor sonssection (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-wire)         2,5 kV @ 60 s           Power frequency withstand voltage (wire -wire)         2,5 kV @ 60 s           Power frequency withstand voltage (wire -wire)         2,5 kV @ 60 s <td></td> <td>90 ± 5 Shore A</td>		90 ± 5 Shore A
Outer-diameter (jacket)         6,5 mm           Tolarance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         4           Outer diameter insulation         1,85 mm           Unter diameter insulation         ± 5 %           Shore hardness wire insulation         1,95 mm           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           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 - wire)         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           UV resistance         DIN EN ISO 4898-2 A           Co		lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Tolerance outer diameter (sheath)         ± 5 %           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         white (isolation black)           Armount strands (wire)         42           Diameter of slape wires         0,15 mm           Conductor crossacction (wire)         0,75 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         stranded copper wire, bare           Conductor type (wire)         stranded copper wire, bare           Naminal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 2094-4           Current load capacity (standard)         to DIN VDE 2094-4           Current load capacity (wire - wire)         2,5 kV @ 60 s           Power frequency 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 @ 100000 h Operation     <		<del>-</del>
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 lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Printing color of wire insulation 1 white (solation black)  Amount strands (wire) 42  Diameter of single wires 0,15 mm  Conductor grossection (wire) 0,75 mm²  Material conductor wire 1 Stranded copper wire, bare  Conductor type (wire) 5 strand class 6  Nominal voltage AC max. 300 V  Current load capacity (standard) 1 to DIN VDE 2098-4  Current load capacity (standard) 2,5 kV ⊕ 60 s  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  Power frequency withstand voltage (wire - wire) 80 °C (90 °C ⊕ 10000 h Operation 1 operating temperature (fixed) 80 °C (90 °C ⊕ 10000 h Operation 1 operating temperature max. (dynamic) 80 °C (90 °C ⊕ 10000 h Operation 1 operating temperature max. (dynamic) 1 operating temperature max. (dynamic) 1 operating temperature max. (dynamic) 1 operating ensistance 1 on Sh SSB-2 A  Flame resistance 2 Ood, application-related testing 2 on Sh SB-2 SC Conditions 2 of Sc Conditions 2 o	Tolerance outer diameter (sheath)	· · · · · · · · · · · · · · · · · · ·
Outer diameter insulation         1,85 mm           Outer diameter tolerance 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 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         9,6 A           Electrical resistance line constant wire         2,5 kV @ 60 s           AC withstand voltage (wire - wire)         2,5 kV @ 60 s           Power frequency withstand voltage (wire - isolate)         4,0 °C           Max. operating temperature (static)         -40 °C           Max. operating temperature (min. (dynamic)         2.5 °C           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-	Material wire insulation	PP
Outer diameter insulation         1.85 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         white (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         9,6 A           Electrical resistance line constant wire         26 Qikm @ 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 (min. (dynamic)         25 °C           Operating temperature min. (dynamic)         25 °C           UV resistance         DIN EN ISO 4892-2 A           Flame resistance         U. 1 1581 § 1100 FT2   IEC 60332-2-2   U. 1 1581 § 1090	Amount wires	4
Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         white (isolation black)           Armount strands (wire)         42           Diameter of single wires         0,15 mm           Conductor crosssection (wire)         0,75 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity win. wire         9,6 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 - ack)         2,5 kV @ 60 s           Min. operating temperature (istatic)         -40 °C           Max. operating temperature max. (dynamic)         2.25 °C           Operating temperature max. (dynamic)         80 °C / 90 °C @ 10000 h Operation           UV resistance         DIN EN IS 04892-2 A           Filame resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Garding radius (fixed)	Outer diameter insulation	1,85 mm
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 (standard)         to DIN VDE 0298-4           Current load capacity (wire - wire)         9,6 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)         2,5 kV @ 60 s           Min. operating temperature (static)         -40 °C           Max. operating temperature (inteed)         80 °C / 90 °C @ 10000 h Operation           UV resistance         DIN EN ISO 4892-2 A           Flame resistance         U. 1581 § 1100 FT2 [1E 60332-2-2 ] UL 1581 § 1090           Chemical resistance         Good, application-related testing<	Outer diameter tolerance core insulation	
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 finis, wire 9,6 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 - alacket) 40 °C  Max. operating temperature (static) 40 °C  Max. operating temperature (static) 80 °C / 90 °C @ 10000 h Operation  Operating temperature max. (dynamic) 25 °C  Operating temperature max. (dynamic) 40 °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 6081-404 [Good, application-related testing  Bending radius (fixed) 5 x Outer diameter  Bending radius (fixed) 10 x Outer diameter  Bending radius (fynamic) 10 x Outer diameter  No. of bending cycles (C-track) 10 Mio. @ 25 °C  Traversing distance (C-track) 3 m/s @ 25 °C  Torsion stress 2 ± 180 °/m	Shore hardness wire insulation	
Amount strands (wire)         42           Diameter of single wires         0.15 mm           Conductor crosssection (wire)         0.75 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         stranded 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         9,6 A           Electrical resistance line constant wire         26 Ω/km @ 20 °C           AC withstand voitage (wire - wire)         2,5 kV @ 60 s           Power frequency withstand voitage (wire - jacket)         4,0 °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           Filame 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 60811-40/4   Good, application-related testing	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Amount strands (wire)         42           Diameter of single wires         0.15 mm           Conductor crosssection (wire)         0.75 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         stranded 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         9,6 A           Electrical resistance line constant wire         26 Ω/km @ 20 °C           AC withstand voitage (wire - wire)         2,5 kV @ 60 s           Power frequency withstand voitage (wire - jacket)         4,0 °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           Filame 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 60811-40/4   Good, application-related testing	-	white (isolation black)
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         9.6 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           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           Gli resistance         DIN EN 60811-404   Good, application-related testing           Bending radius (fixed)         5 x Outer diameter           Bending radius (dynamic)         10 x Outer diameter <td></td> <td>42</td>		42
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         9,6 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 - izoket)         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           Bending radius (fixed)         5 x Outer diameter           Bending radius (fixed)         5 x Outer d		0.15 mm
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         9,6 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 (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           Gli resistance         DIN EN 60811-404   Good, application-related testing           Bending radius (fixed)         5 x Outer diameter           Bending radius (fixed)         5 x Outer diameter           No. of bending cycles (C-track) <td< td=""><td></td><td>· · · · · · · · · · · · · · · · · · ·</td></td<>		· · · · · · · · · · · · · · · · · · ·
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         9,6 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           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           Bending radius (fixed)         5 × Outer diameter           Bending radius (dynamic)         10 × Outer diameter           No. of bending cycles (C-track)         10 Mio. @ 25 °C   horizontal           Traver sing distance (C-track)		·
Nominal voltage AC max. 300 V  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  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  Ut 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090  chemical 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  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  Bending radius (dynamic) 10 m @ 25 °C  Traversing distance (C-track) 10 m @ 25 °C  Traversing distance (C-track) 3 m/s @ 25 °C  No. of torsion cycles 2 Mio.  Torsion stress ± 180 °/m		
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           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           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           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<		
Current load capacity min. wire 9,6 A  Electrical resistance line constant wire 26 $\Omega$ /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  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  Gil resistance DIN EN 60811-404   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) 10 m @ 25 °C   horizontal  Travel speed (C-track) 3 m/s @ 25 °C  No. of torsion cycles 2 Mio.  Torsion stress ± 180 °/m		
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         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         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 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		
AC withstand voltage (wire - wire)  Power frequency withstand voltage (wire - jacket)  All comparating temperature (static)  Au coperating temperature (static)  Au coperating temperature (fixed)  Au coperating temperature (fixed)  Au coperating temperature (fixed)  Au coperating temperature min. (dynamic)  Au coperating temperature min. (dynamic)  Au coperating temperature min. (dynamic)  Au coperating temperature max. (dynamic)  Au coperating temperature min. (dynamic)  Au coperation  Au coperat		•
Power frequency withstand voltage (wire - jacket)  Min. operating temperature (static)  A0 °C  Max. operating temperature (fixed)  80 °C / 90 °C @ 10000 h Operation  Operating temperature min. (dynamic)  -25 °C  Operating temperature max. (dynamic)  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  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 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		<del>-</del>
Min. operating temperature (static)  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  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	Power frequency withstand voltage (wire -	1 - 1
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  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  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  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
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  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	Operating temperature min. (dynamic)	-25 °C
Flame resistance Chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 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)	
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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	Flame resistance	UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090
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 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	
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 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 (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	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
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 (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
Travel speed (C-track) 3 m/s @ 25 °C  No. of torsion cycles 2 Mio.  Torsion stress ± 180 °/m	Traversing distance (C-track)	10 m @ 25 °C   horizontal
No. of torsion cycles         2 Mio.           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