

## MSUD double valve BI-11mm with cable

PUR 4x0.75 bk UL/CSA 1.5m

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

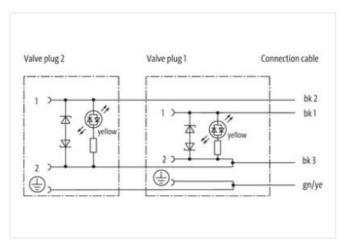
Plastic housings with good resistance against chemicals and oils.

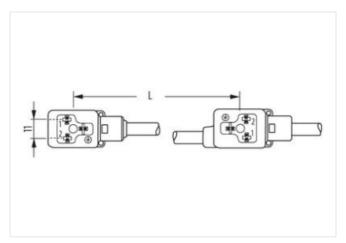
The resistance to aggressive media should be individually tested for your application. Further details on request.

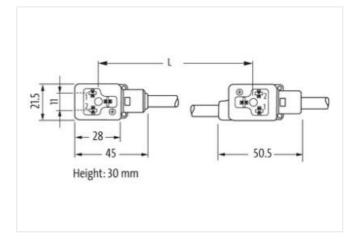
## **Link to Product**

## Illustration









Product may differ from Image



Cable length 1,5 m

Side 1

0,4 Nm Tightening torque

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: 2024-05-22



МЗ Thread Side 2 Tightening torque 0,4 Nm Thread МЗ 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 4048879136389 Packaging unit **Electrical data** Drop-out delay time max. 20 ms Electrical data | Supply Operating voltage AC 24 V Operating voltage AC min. 19,2 V Operating voltage AC max. 28.8 V Operating voltage DC 24 V Operating voltage DC min. 18 V Operating voltage DC max. 30 V Cut-off peak voltage max. 55 V Current operating per contact max. 4 A Current consumption max. 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 Mounting method inserted, screwed Environmental characteristics | Climatic -25 °C Operating temperature min. 85 °C Operating temperature max. 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. Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be Note on bending radius endangered by excessive bending forces. Installation | Cable black 1, black 2, black 3, green-yellow wire arrangement



stay connected

Material Jacket         PUR           Shore hardness jacket         85 ± 5 Shore A           Freedom from Ingredients (jacket)         6.5 mm           Outer-diameter (jacket)         6.5 mm           Tolerance outer diameter (jacket)         ± 5 %           Material Iner Jacket         PVC           Color (inner Jacket)         black           Material wire insulation         PVC           Color (inner Jacket)         black           Material wire insulation         1.8 mm           Outer diameter tolerance core insulation         4.8 mm           Outer diameter tolerance core insulation         43 ± 5 Shore D           Ingredient freeness wire insulation         43 ± 5 Shore D           Ingredient freeness 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 dosp exity wire, bare           Conductor type (wire)         strand dosp exity wire, bare           Corrent load capacity (strandard)         10 DIN VDE 0298-4           Current load capacity (strandard)         10 DIN VDE 0298-4	Cable identification	627
Jacket Color	Cable Type	2
Type of Certificate	Printing color of wire insulation	white (isolation black)
Amount stranding         1           Stranding         4 wires twisted           wire arrangement         black 1, black 2, black 3, green yellow           Cable wight         74.8 gm           Meterial jacket         PUR           Shore hardrases jacket         85.5 Shore A           Froadom from ingradients (jacket)         lead free, cadmium-free, CFC-free, silicone-free           Outer-diameter (jacket)         6.5 mm           Tolerance outer diameter (sheath)         ± 5 %           Material inner jacket         PVC           Color (inner jacket         PVC           Material vive insulation         PVC           Material vive insulation         1.8 mm           Outer diameter (sheath)         4.5 %           Material vive insulation         1.8 mm           Outer diameter insulation         1.8 mm           Outer diameter (sheath)         4.5 %           Shore hardrases wire insulation         4.5 %           Shore bardrases wire insulation         4.5 %           All properties of viver insulation         4.5 %           All properties of viver insulation         4.5 %           All properties of single wires         0.15 mm           Cornductor or sissessition (wire)         0.2 mm <t< td=""><td>Jacket Color</td><td>black</td></t<>	Jacket Color	black
Stranding         4 wires twisted           wire arrangement         black 1, black 2, black 3, green-yellow           Cable weight         74.8 g/m           Material jucket         PUR           Shore hardness jacket         85 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, silicone-free           Outer-diameter (jacket)         6.5 mm           Tolerance outer diameter (health)         2.5 %           Material inner jacket         PVC           Color (inner jacket)         black           Material wire insulation         1,8 mm           Outer diameter insulation         4           Outer diameter insulation         4,9 mm           Outer diameter insulation         43 ± 5 Shore D           Ingredient freeness wire insulation         43 ± 5 Shore D           Ingredient freeness wire insulation         white (solation black)           Anount strands (wire)         42           Diameter of single wires         0,15 mm           Conductor rosseaction (wire)         3,75 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Material conductor wire         10 N NDE 288-4           Current load capacity	Type of Certificate	cURus
wire arrangement         black 1, black 2, black 3, green-yellow           Cable weight         74,8 g/m           Material Jacket         PUR           Shore hardness jacket         85 ± 5 Shore A           Freedom from ingredients (jacket)         6.5 mm           Outer-diameter (jacket)         6.5 mm           Tolerance outer diameter (sheath)         ± 5 %           Material inner jacket         PVC           Color (inner jacket)         black           Material inner jacket         PVC           Amount wires         4           Cuter diameter insulation         1,8 mm           Outer diameter insulation         1,8 mm           Outer diameter insulation         1,8 mm           Outer diameter insulation         43 ± 5 Shore D           Ingredient freeness wire insulation         43 ± 5 Shore D           Ingredient freeness wire insulation         43 ± 5 Shore D           Ingredient freeness wire insulation         43 ± 5 Shore D           Ingredient freeness wire insulation         43 ± 5 Shore D           Ingredient freeness wire insulation         43 ± 5 Shore D           Ingredient freeness wire insulation         83 ± 5 Shore D           Ingredient freeness wire insulation         43 ± 5 Shore D           Ingredient freenes	Amount stranding	1
Cable weight         74.8 g/m           Material jacket         PUR           Shore hardness jacket         85 ± 5 Shore A           Freedom from ingredients (jacket)         lead free, cadmium-free, CFC-free, silicone-free           Outer-diameter (jacket)         ± 5 %           Material inner jacket         PVC           Color (nner jacket)         black           Material wire insulation         PVC           Amount wires         4           Outer diameter insulation         1.8 mm           Outer diameter insulation         ± 5 %           Shore hardness wire insulation         ± 5 %           Outer diameter insulation         ± 5 %           Shore hardness wire insulation         ± 5 %           Normathess wire insulation         ± 5 %           Printing color of wire insulation         white (solation black)           Amount strands (wire)         42           Diameter of single wires         0,15 mm           Conductor yorsesection (wire)         0,75 mm²           Material conductor wire         Stranded copper wire, bare           Conductor yor (wire)         stranded copper wire, bare           Conductor type (wire)         stranded copper wire, bare           Current load capacity (standard)         to DIN VDE 0	Stranding	4 wires twisted
Cable weight         74.8 g/m           Material jacket         PUR           Shore hardness jacket         85 ± 5 Shore A           Freedom from ingredients (jacket)         lead free, cadmium-free, CFC-free, silicone-free           Outer-diameter (jacket)         ± 5 %           Material inner jacket         PVC           Color (nner jacket)         black           Material wire insulation         PVC           Amount wires         4           Outer diameter insulation         1.8 mm           Outer diameter insulation         ± 5 %           Shore hardness wire insulation         ± 5 %           Outer diameter insulation         ± 5 %           Shore hardness wire insulation         ± 5 %           Normathess wire insulation         ± 5 %           Printing color of wire insulation         white (solation black)           Amount strands (wire)         42           Diameter of single wires         0,15 mm           Conductor yorsesection (wire)         0,75 mm²           Material conductor wire         Stranded copper wire, bare           Conductor yor (wire)         stranded copper wire, bare           Conductor type (wire)         stranded copper wire, bare           Current load capacity (standard)         to DIN VDE 0	wire arrangement	black 1, black 2, black 3, green-yellow
Shore hardness jacket         85 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, silicone-free           Colust-diameter (jacket)         6,5 mm           Tolerance outer diameter (sheath)         ± 5 %           Material inner jacket         PVC           Color (inner jacket)         black           Material wire insulation         PVC           Anount wires         4           Outer diameter insulation         1,8 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         43 ± 5 Shore D           Ingredient freeness wire insulation         43 ± 5 Shore D           Ingredient freeness wire insulation         white (solation black)           Amount strands (wire)         42           Diameter of single wires         0,15 mm           Conductor rosessection (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 (wire virre)         2 K W @ 60 s           Power frequency withstand voltage (wire virre)         2 K W	Cable weigth	74,8 g/m
Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, silicone-free           Outer-diameter (jacket)         6.5 mm           Toferance outer diameter (sheath)         ± 5 %           Material inner jacket         PVC           Color (inner jacket)         black           Material winer jacket         PVC           Color (inner jacket)         black           Material wine insulation         1.8 mm           Outer diameter insulation         1.8 mm           Under diameter insulation         43 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, silicone-free           Printing color of wire insulation         white (solation black)           Amount strands (wire)         42           Diameter of single wires         0,15 mm           Conductor crossection (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 (standard)         to DIN VDE 0298-4           Guita (with stand voltage (wire - j	Material jacket	PUR
Outer diameter (jacket)         6,5 mm           Tolerance outer diameter (sheath)         ± 5 %           Material inner jacket         PVC           Color (inner jacket)         black           Material wire insulation         PVC           Amount wires         4           Outer diameter losulation         1,8 mm           Outer diameter losurance core insulation         ± 5 %           Shore hardness wire insulation         43 ± 5 Shore D           Ingredient freeness wire insulation         43 ± 5 Shore D           Printing color of wire insulation         white (isolation black)           Amount strands (wire)         42           Dameter of single wires         0,15 mm           Conductor rosssection (wire)         0,75 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         stranded capper wire, bare           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 KV @ 60 s           Power frequency withstand voltage (wire - wire)         2 KV @ 60 s           Power frequency withstand voltage (wire - wire)         30 °C <td>Shore hardness jacket</td> <td>85 ± 5 Shore A</td>	Shore hardness jacket	85 ± 5 Shore A
Tolerance outer diameter (sheath)	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, silicone-free
Material inner jacket         PVC           Color (inner jacket)         black           Material wire insulation         PVC           Amount wires         4           Outer diameter insulation         1,8 mm           Outer diameter insulation         ± 5 %           Shore hardness wire insulation         ± 3 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, silicone-free           Printing obor of wire insulation         white (isolation black)           Amount strands (wire)         42           Diameter of single wires         0,15 mm           Conductor crossection (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           Electrical resistance line constant wire         26 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2 kV @ 60 s           Min. operating temperature (static)         -30 °C           Max. operating temperature (static)	Outer-diameter (jacket)	6,5 mm
Color (inner jacket)         black           Material wire insulation         PVC           Amount wires         4           Outer diameter insulation         1,8 mm           Outer diameter solution         ± 5 %           Shore hardness wire insulation         43 ± 5 Shore D           Ingredient freeness wire insulation         white (solation black)           Printing color of wire insulation         white (solation black)           Amount strands (wire)         42           Diameter of single wires         0,15 mm           Conductor crosssection (wire)         0,75 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Nominal voltage AC max.         300 V           Current load capacity (sindard)         to DIN VDE 0298-4           Current load capacity min. wire         12 A           Electrical resistance line constant wire         26 Qkm @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2 kV @ 60 s           Max. operating temperature (fixed)         80 °C           Operating temperature (mix. dynamic)         5 °C           Operating temperature min. (dynamic)         80 °C	Tolerance outer diameter (sheath)	±5%
Material wire insulation         PVC           Amount wires         4           Outer diameter insulation         1,8 mm           Outer diameter tolorance core insulation         ± 5 %           Shore hardness wire insulation         43 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-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         12 A           Electrical resistance line constant wire         26 O/km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2 kV @ 60 s           Min. operating temperature (static)         -30 °C           Max. operating temperature (static)         -5 °C           Operating temperature min. (dynamic)         5 °C           Ope	Material inner jacket	PVC
Amount wires         4           Outer diameter insulation         1,8 mm           Outer diameter insulation         ± 5 %           Shore hardness wire insulation         43 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, silicone-free           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           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 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2 kV @ 60 s           Min. operating temperature (fixed)         80 °C           Operating temperature min. (dynamic)         5° °C           Ur resistance         DIN EN ISO 4892-2 A           Flame resistance         Good, application-related testing	Color (inner jacket)	black
Outer diameter insulation         1,8 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         43 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, silicone-free           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         12 A           Electrical resistance line constant wire         26 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - isolate)         30 °C           Min. operating temperature (static)         -30 °C           Max. operating temperature (fixed)         80 °C           Operating temperature (mixed)         80 °C           Operating temperature (mixed)         80 °C           Operating temperature (mixed)         80 °C <t< td=""><td></td><td>PVC</td></t<>		PVC
Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         43 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, silicone-free           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           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 NDE 0298-4           Current load capacity (standard)         to DIN NDE 0298-4           Current load capacity (standard)         to DIN NDE 0298-4           Current load capacity wins wire         12 A           Electrical resistance line constant wire         26 Ωkm @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - algoekt)         2 kV @ 60 s           Min. operating temperature (static)         -30 °C           Max. operating temperature (static)         30 °C           Operating temperature min. (dynamic)         5° °C           Operating temperature min. (	Amount wires	4
Shore hardness wire insulation 43 ± 5 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-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) 2 kV @ 60 s Power frequency withstand voltage (wire - 2 kV @ 60 s Power frequency withstand voltage (wire - 30 °C Max. operating temperature (static) 30 °C Operating temperature (static) 40 °C Operating temperature max. (dynamic) 5 °C Operating temperature max. (dynamic) 60 °C Operating temperature max. (dynamic) 75 °C Operating temperature max. (dynamic) 60 °C Operating temperature max. (dynamic) 75 °C Operating temperature	Outer diameter insulation	1,8 mm
Ingredient freeness wire insulation lead-free, cadmium-free, CFC-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)  current load capacity min. wire  12 A  Electrical resistance line constant wire  AC withstand voltage (wire - wire)  2 kV @ 60 s  Power frequency withstand voltage (wire - isake)  Min. operating temperature (static)  As °C  Operating temperature (fixed)  80 °C  Operating temperature max. (dynamic)  5 °C  Operating temperature max. (dynamic)  Charles (Sod, application-related testing)  Gasoline resistance  Good, application-related testing  Oil rosistance  Good, application-related testing  Oil rosistance  Good, application-related testing  Bending radius (dynamic)  15 x Outer diameter  Bending radius (dynamic)  15 x Outer diameter  Fraversing distance (C-track)  5 m @ 25 °C   horizontal	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 rosssection (wire)  Attended copper wire, bare  Conductor type (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 N/m @ 20 °C  AC withstand voltage (wire - wire)  2 kV @ 60 s  Power frequency withstand voltage (wire - wire)  2 kV @ 60 s  Min. operating temperature (static)  Min. operating temperature (static)  40 °C  Operating temperature min. (dynamic)  5 °C  Operating temperature max. (dynamic)  80 °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-related testing  Gasoline resistance  Good, application-related testing  Garding radius (fixed)  Bending radius (fixed)  10 x Outer diameter  Rending acdius (dynamic)  15 x Outer diameter  No. of bending cycles (C-track)  5 m @ 25 °C   horizontal	Shore hardness wire insulation	43 ± 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 min. wire         12 A           Electrical resistance line constant wire         26 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2 kV @ 60 s           Min. operating temperature (static)         -30 °C           Max. operating temperature (fixed)         80 °C           Operating temperature min. (dynamic)         -5 °C           Operating temperature max. (dynamic)         80 °C           UV resistance         DIN EN ISO 4892-2 A           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   DIN EN 60811-404           Bending radius (fixed)         10 x Outer diameter           Bending radius (dynamic)         1 5 x Out	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-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         12 A           Electrical resistance line constant wire         26 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - iacket)         -30 °C           Min. operating temperature (static)         -30 °C           Max. operating temperature (fixed)         80 °C           Operating temperature min. (dynamic)         -5 °C           Operating temperature max. (dynamic)         80 °C           UV resistance         DIN EN ISO 4892-2 A           Flame resistance         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         Good, application-related testing   DIN EN 60811-404           Bending radius (fixed)         15 x Outer diameter           Bending radius (dynamic)	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 Cy/km @ 20 °C       AC withstand voltage (wire - wire)     2 kV @ 60 s       Power frequency withstand voltage (wire - jacket)     2 kV @ 60 s       Min. operating temperature (static)     -30 °C       Max. operating temperature (fixed)     80 °C       Operating temperature min. (dynamic)     -5 °C       Operating temperature max. (dynamic)     80 °C       UV resistance     DIN EN ISO 4892-2 A       Flame resistance     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     Good, application-related testing   DIN EN 60811-404       Bending radius (fixed)     10 x Outer diameter       Bending radius (fixed)     10 x Outer diameter       Bending radius (dynamic)     15 x Outer diameter       No. of bending cycles (C-track)     2 Mio. @ 25 °C   horizontal	Amount strands (wire)	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     12 A       Electrical resistance line constant wire     26 Cy/km @ 20 °C       AC withstand voltage (wire - wire)     2 kV @ 60 s       Power frequency withstand voltage (wire - jacket)     2 kV @ 60 s       Min. operating temperature (static)     -30 °C       Max. operating temperature (fixed)     80 °C       Operating temperature min. (dynamic)     -5 °C       Operating temperature max. (dynamic)     80 °C       UV resistance     DIN EN ISO 4892-2 A       Flame resistance     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     Good, application-related testing   DIN EN 60811-404       Bending radius (fixed)     10 x Outer diameter       Bending radius (fixed)     10 x Outer diameter       Bending radius (dynamic)     15 x Outer diameter       No. of bending cycles (C-track)     2 Mio. @ 25 °C   horizontal	Diameter of single wires	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         12 A           Electrical resistance line constant wire         26 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - ajacket)         2 kV @ 60 s           Min. operating temperature (static)         -30 °C           Max. operating temperature (fixed)         80 °C           Operating temperature min. (dynamic)         -5 °C           Operating temperature max. (dynamic)         80 °C           UV resistance         DIN EN ISO 4892-2 A           Flame resistance         UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090           chemical resistance         Good, application-related testing           Gil resistance         Good, application-related testing           Oil resistance         Good, application-related testing   DIN EN 60811-404           Bending radius (fixed)         10 x Outer diameter           Bending radius (dynamic)         15 x Outer diameter           No. of bending cycles (C-track)         2 Mio. @ 25 °C   horizontal		· · · · · · · · · · · · · · · · · · ·
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 kV @ 60 s         Power frequency withstand voltage (wire - ajacket)       -30 °C         Min. operating temperature (static)       -30 °C         Max. operating temperature (fixed)       80 °C         Operating temperature min. (dynamic)       -5 °C         Operating temperature max. (dynamic)       80 °C         UV resistance       DIN EN ISO 4892-2 A         Flame resistance       UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090         chemical resistance       Good, application-related testing         Oil resistance       Good, application-related testing         Oil resistance       Good, application-related testing   DIN EN 60811-404         Bending radius (fixed)       10 x Outer diameter         Bending radius (dynamic)       15 x Outer diameter         No. of bending cycles (C-track)       2 Mio. @ 25 °C   horizontal		Stranded copper wire, bare
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 kV @ 60 s  Power frequency withstand voltage (wire - acket) 2 kV @ 60 s  Min. operating temperature (static) -30 °C  Max. operating temperature (fixed) 80 °C  Operating temperature min. (dynamic) -5 °C  Operating temperature max. (dynamic) 80 °C  UV resistance DIN EN ISO 4892-2 A  Flame resistance 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 Good, application-related testing  Bending radius (fixed) 10 x Outer diameter  Bending radius (dynamic) 15 x Outer diameter  No. of bending cycles (C-track) 5 m @ 25 °C   horizontal	Conductor type (wire)	
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 kV @ 60 s         Power frequency withstand voltage (wire - jacket)       2 kV @ 60 s         Min. operating temperature (static)       -30 °C         Max. operating temperature (fixed)       80 °C         Operating temperature min. (dynamic)       -5 °C         Operating temperature max. (dynamic)       80 °C         UV resistance       DIN EN ISO 4892-2 A         Flame resistance       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       Good, application-related testing   DIN EN 60811-404         Bending radius (fixed)       10 x Outer diameter         Bending radius (dynamic)       15 x Outer diameter         No. of bending cycles (C-track)       2 Mio. @ 25 °C         Traversing distance (C-track)       5 m @ 25 °C   horizontal		300 V
Current load capacity min. wire       12 A         Electrical resistance line constant wire       26 Ω/km @ 20 °C         AC withstand voltage (wire - wire)       2 kV @ 60 s         Power frequency withstand voltage (wire - jacket)       2 kV @ 60 s         Min. operating temperature (static)       -30 °C         Max. operating temperature (fixed)       80 °C         Operating temperature min. (dynamic)       -5 °C         Operating temperature max. (dynamic)       80 °C         UV resistance       DIN EN ISO 4892-2 A         Flame resistance       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       Good, application-related testing   DIN EN 60811-404         Bending radius (fixed)       10 x Outer diameter         Bending radius (dynamic)       15 x Outer diameter         No. of bending cycles (C-track)       2 Mio. @ 25 °C         Traversing distance (C-track)       5 m @ 25 °C   horizontal		to DIN VDE 0298-4
AC withstand voltage (wire - wire) 2 kV @ 60 s  Power frequency withstand voltage (wire - jacket) 2 kV @ 60 s  Min. operating temperature (static) -30 °C  Max. operating temperature (fixed) 80 °C  Operating temperature min. (dynamic) -5 °C  Operating temperature max. (dynamic) 80 °C  UV resistance DIN EN ISO 4892-2 A  Flame resistance 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 Good, application-related testing IDIN EN 60811-404  Bending radius (fixed) 10 x Outer diameter  Bending radius (dynamic) 15 x Outer diameter  No. of bending cycles (C-track) 2 Mio. @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C   horizontal		12 A
Power frequency withstand voltage (wire - jacket)  Min. operating temperature (static)  As o °C  Max. operating temperature (fixed)  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  Bo °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-related testing  Gasoline resistance  Good, application-related testing  Oil resistance  Good, application-related testing   DIN EN 60811-404  Bending radius (fixed)  10 x Outer diameter  Bending radius (dynamic)  15 x Outer diameter  No. of bending cycles (C-track)  5 m @ 25 °C   horizontal	Electrical resistance line constant wire	26 Ω/km @ 20 °C
Power frequency withstand voltage (wire - jacket)  Min. operating temperature (static)  As o °C  Max. operating temperature (fixed)  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  Bo °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-related testing  Gasoline resistance  Good, application-related testing  Oil resistance  Good, application-related testing   DIN EN 60811-404  Bending radius (fixed)  10 x Outer diameter  Bending radius (dynamic)  15 x Outer diameter  No. of bending cycles (C-track)  5 m @ 25 °C   horizontal	AC withstand voltage (wire - wire)	2 kV @ 60 s
Max. operating temperature (fixed) 80 °C  Operating temperature min. (dynamic) -5 °C  Operating temperature max. (dynamic) 80 °C  UV resistance DIN EN ISO 4892-2 A  Flame resistance 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 Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 10 x Outer diameter  Bending radius (dynamic) 15 x Outer diameter  No. of bending cycles (C-track) 2 Mio. @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C   horizontal	Power frequency withstand voltage (wire -	2 kV @ 60 s
Operating temperature min. (dynamic) Operating temperature max. (dynamic)  80 °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-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) 10 x Outer diameter  Bending radius (dynamic) 15 x Outer diameter  No. of bending cycles (C-track) 5 m @ 25 °C   horizontal	Min. operating temperature (static)	-30 °C
Operating temperature max. (dynamic) 80 °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-related testing  Gasoline resistance Good, application-related testing  Oil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 10 x Outer diameter  Bending radius (dynamic) 15 x Outer diameter  No. of bending cycles (C-track) 2 Mio. @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C   horizontal	Max. operating temperature (fixed)	80 °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-related testing  Gasoline resistance Good, application-related testing  Oil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 10 x Outer diameter  Bending radius (dynamic) 15 x Outer diameter  No. of bending cycles (C-track) 2 Mio. @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C   horizontal	Operating temperature min. (dynamic)	-5 °C
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 Good, application-related testing   DIN EN 60811-404 Bending radius (fixed) 10 x Outer diameter Bending radius (dynamic) 15 x Outer diameter No. of bending cycles (C-track) 2 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C   horizontal	Operating temperature max. (dynamic)	80 °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) 10 x Outer diameter Bending radius (dynamic) 15 x Outer diameter No. of bending cycles (C-track) 2 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C   horizontal	UV resistance	DIN EN ISO 4892-2 A
Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 10 x Outer diameter  Bending radius (dynamic) 15 x Outer diameter  No. of bending cycles (C-track) 2 Mio. @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C   horizontal	Flame resistance	UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090
Oil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 10 x Outer diameter  Bending radius (dynamic) 15 x Outer diameter  No. of bending cycles (C-track) 2 Mio. @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C   horizontal	chemical resistance	Good, application-related testing
Bending radius (fixed)  10 x Outer diameter  Bending radius (dynamic)  15 x Outer diameter  No. of bending cycles (C-track)  2 Mio. @ 25 °C  Traversing distance (C-track)  5 m @ 25 °C   horizontal	Gasoline resistance	Good, application-related testing
Bending radius (dynamic) 15 x Outer diameter  No. of bending cycles (C-track) 2 Mio. @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C   horizontal	Oil resistance	Good, application-related testing   DIN EN 60811-404
No. of bending cycles (C-track)  2 Mio. @ 25 °C  Traversing distance (C-track)  5 m @ 25 °C   horizontal	Bending radius (fixed)	10 x Outer diameter
Traversing distance (C-track) 5 m @ 25 °C   horizontal	Bending radius (dynamic)	15 x Outer diameter
	No. of bending cycles (C-track)	2 Mio. @ 25 °C
Travel speed (C-track) 3,3 m/s @ 25 °C		
	Travel speed (C-track)	