

## MSUD valve plug BI-11mm with cable

PUR 3x0.75 bk UL/CSA+drag ch. 5m

Art.No.: 7000-11041-6360500

Weight: 0.289 kg Country of origin: CZ

Model designation: MSUDK-IB3Z-636 5.0

**MSUD** 

Form BI (11 mm) 110 V AC/DC ±10% LED and suppression without cable sleeves

Further cable lengths on request.

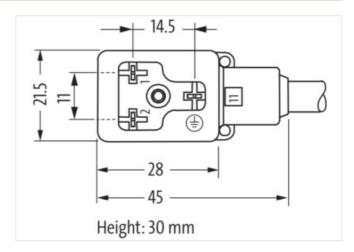
Plastic housings with good resistance against chemicals and oils.

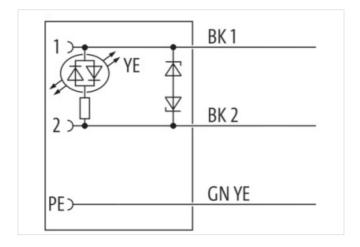
The resistance to aggressive media should be individually tested for your application. Further details on request.

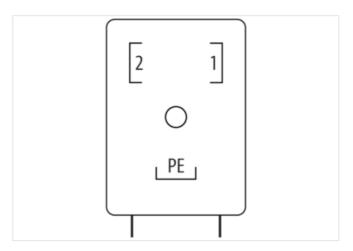
## **Link to Product**

## Illustration



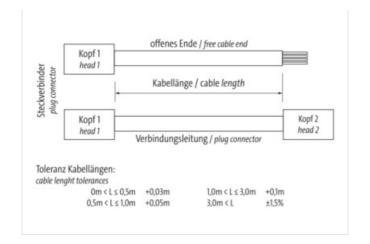


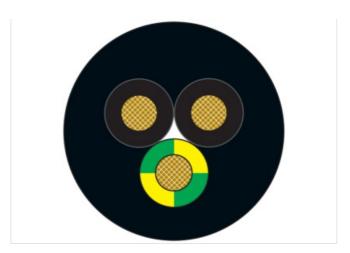


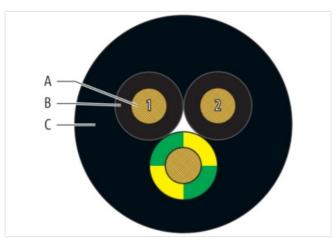




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Product may differ from Image













	0 00	
Header		
Material short text	MSUDK-IB3Z-636_5.0	
Cable length	5,00 m	
Side 1		
Family construction form	Valve connector form BI	
No. of poles	3	
Gender	Female	
Mounting method	inserted, screwed	
Threaded hole	M3x31	
Tightening torque	0,4 Nm	
Material	PBT	
Material contact	Copper alloy	
Coating contact	silver-plated	
Degree of protection (EN IEC 60529)	IP67	
Side 2		
Coating contact	silver-plated	
Commercial data		



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URL Webshop	https://shop.murrelektronik.com/7000-11041-6360500
GTIN	4048879221009
ECLASS-6.0	27279218
ECLASS-6.1	27279218
ECLASS-7.0	27279218
ECLASS-7.1	27279218
ECLASS-8.0	27279218
ECLASS-8.1	27279218
ECLASS-9.0	27060312
ECLASS-9.1	27060312
ECLASS-10.0.1	27060312
ECLASS-10.1	27060312
ECLASS-11.0	27060312
ECLASS-11.1	27060312
ECLASS-12.0	27060312
ECLASS-13.0	27060312
ECLASS-14.0	27060312
ETIM-5.0	EC001855
ETIM-6.0	EC001855
ETIM-7.0	EC001855
ETIM-8.0	EC001855
customs tariff number	85444290
EAN	4048879221009
Packaging unit	1
Electrical data	
Drop-out delay time max.	20 ms
Electrical data   Supply	
Operating voltage AC	110 V
Operating voltage AC min.	99 V
Operating voltage AC max.	121 V
Operating voltage DC	110 V
Operating voltage DC min.	99 V
Operating voltage DC max.	121 V
Current operating per contact max.	4 A
Cut-off peak voltage max.	270 V
Current consumption max.	8 mA
Diagnostics	
Status indication LED	yellow
Installation   Connection	
Mounting set	M3x31
Device protection   Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Additional suppressor	Diode, Z-Diode
Rated surge voltage	2,5 kV
Material group (IEC 60664-1)	I
Mechanical data	
Contour for corrugated hose	without
Mechanical data   Material data	
Color housing	black



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Locking material Coating locking galvarized  Mounting method Environmental characteristics   Climatic  Environmental characteristics   Climatic  Coperating inerporature min. Operating inerporature max. Ser C Operating inerporature inerporature inerporating inerporature max. Ser C Operating inerporature inerporating inerporature inerporating inerporature inerporating inerporature inerporating inerporature inerporating inerporature inerporating inerpor	Coating of fitting	galvanized
Conting locking   gehanized   Muchaning data   Muchaning data   Muchaning method   Inserted, screwed		<u> </u>
Mounting nethod inserted, sorewed  Fundamental characteristics [Climato  Operating temperature min. 25° °C  Operating temperature may. 85° °C  Authorition interperature may. 85° °C  Authorition continue interperature may. 85° °C  Authorition continue interperature may. 85° °C  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangeated by excessive bending forces.  Note on strain relief  Tradiction and ordinary and the season of the interperature may. 85° °C  Cable identification S86  Cable Type 3  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangeated by excessive bending forces.  Note on strain relief  Tradiction (Cable)  Cable identification S86  Cable Type 3  Annount stranding 1  Stranding 3  Stranding 3  Stranding 3  Stranding 4  Stranding 5  Stranding 5  Stranding 5  Stranding 6  Annount stranding 1  Stranding 7  Stranding		
Mounting method inserted, screwed  Environmental characteristics   Climate  Operating temperature min.  -25 °C  Operating temperature max.  -25 °C  Additional condition temperature max.  -25 °C  -25		
Environmental characteristics   Climatic Operating interpretature max. 85 °G Additional condition temperature range depending on cable quality Important installation notes Important installation notes  Attentions: Observe the permissible bending radia when laying cables, as the IP protection class can be endangered by excessive bending forces.  Note on bonding radius Attentions: Observe the permissible bending radia when laying cables, as the IP protection class can be endangered by excessive bending forces.  Note on stant retir Protect the connectors by suitable measures from mechanical bacts, e.g., by the usage of cable lise.  Installation   Cable  Cable in yell   Signature   Si		
Operating temperature main. 25 °C Operating temperature max. 85 °C Operating temperature max. (dynamic) Operating tem		inserted, screwed
Operating temperature max. Additional condition temperature maye depending on cable quality Important installation notes Note on bending radius Note on bending radius Note on bending radius Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. Installation   Cable Cable identification   636 Cable Type   3 Amount stranding   1 Stranding   3 wires stranded   3 Cable wight   51 g/m Material wire insulation   PPP Amount wires   3 Cubre diameter insulation   21,185 mm   20 Cubre diameter forterance core insulation   70 ± 5 Shore B Amount stranding   70 ± 5 Shore B Amount stranding   70 ± 5 Shore B Amount wires   70 ± 7 5 Shore B A	Environmental characteristics   Climatic	
Attention: Condition temperature range   depending on cable quality   Important installation notes	Operating temperature min.	-25 °C
Important Installation notes  Note on bending radius  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Note on strain relief  Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ites.  Installation (Cable  Cable identification  Sale  S	Operating temperature max.	85 °C
Note on bending radius and an antimation: Observe the permissible bending radii when laying cables, as the IP protection class can be andangered by excessive bending forces.  Note on strain relief Protection class can be andangered by casesive from mechanical loads, e.g. by the usage of cable ties.  Installation   Cable   Cable (and Illiance)   Cable (and Illiance)	Additional condition temperature range	depending on cable quality
endangered by excessive bending forces.  Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Installation   Gable   Cable identification   G36   Cable Type   3   Amount stranding   1   Stranding   3 wires stranded   Cable weight   51 g/m   Material wire insulation   PP   Amount wires   3   Outer diameter insulation   1.85 mm   Outer diameter insulation   1.85 mm   Outer diameter tolerance core insulation   70 ± 5 Shore D   Printing color of wire insulation   70 ± 5 Shore D   Diameter of single wires   42   Diameter of single wires   42   Diameter of single wires   43   Conductor prepared outper wire, barre   Conductor prepared outper wire   5,8 mm   Conductor outper diameter (sheath)   ± 5 %   Material conductor wire   5,8 mm   Tolerance outer diameter (sheath)   ± 5 %   Shore hardness glacket   90 ± 5 Shore A   Frieedom from Ingredents (gacket)   42   Diameter of single wires   5,8 mm   Tolerance outer diameter (sheath)   ± 5 %   Shore hardness jacket   90 ± 5 Shore A   Frieedom from Ingredents (gacket)   5,8 mm   Tolerance outer diameter (sheath)   ± 5 %   Shore hardness jacket   90 ± 5 Shore A   Frieedom from Ingredents (gacket)   5,8 mm   Tolerance outer diameter (sheath)   ± 5 %   Shore hardness jacket   90 ± 5 Shore A   Frieedom from Ingredents (gacket)   5,8 mm   Tolerance outer diameter (sheath)   ± 5 %   Shore hardness jacket   90 ± 5 Shore A   Frieedom from Ingredents (gacket)   5,8 mm   Tolerance outer diameter (sheath)   ± 5 %   Shore hardness jacket   90 ± 5 Shore A   Frieedom from Ingredents (gacket)   5,8 mm   Tolerance outer diameter (sheath)   ± 5 %   Shore hardness jacket   5,8 mm   Shore hardness jacket   5,8 mm   Tolerance outer diameter (sheath)   5,8 mm   Tolerance outer diameter (	Important installation notes	
Cable identification         636           Cable identification         636           Cable Type         3           Amount stranding         1           Stranding         3 wires stranded           Cable weight         51 g/m           Material wire insulation         PP           Amount wires         3           Outer diameter loterance core insulation         1.85 mm           Outer diameter loterance core insulation         2.1 mm           Shore hardness wire insulation         70 ± 5 Shore D           Unifordient ferences wire insulation         70 ± 5 Shore D           Finting color of wire insulation         white (isolation black)           Amount strands (wire)         42           Diameter of single wires         0.15 mm           Conductor by Expressive wires         0.75 mm²           Material product (gicket)         5.9 mm           Tolerance outer diameter (sheath)         ± 5 %           Material process         PUR           Shore hardness jacket         90 ± 5 Shore A           Freadom from ingredients (gacket) <td>Note on bending radius</td> <td></td>	Note on bending radius	
Cable Identification         696           Cable Type         3           Amount stranding         1           Stranding         3 wires stranded           Cable weight         51 g/m           Material wire insulation         PP           Amount wires         3           Outer diameter insulation         1,85 mm           Outer diameter insulation         1,85 mm           Outer diameter insulation         70 ± 5 Shore D           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         CFC-free, cadmium-free, silicone-free, halogen-free, lead-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           Conductor (sheath)         ± 5 %           Material jacket         PUR           Material property (jacket)         ± 5 %           Material property (jacket)         matte, good machinability, abrasion-resistant, low adhesion           Conductor resistance (wire)         ± 5	Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Cable Identification         696           Cable Type         3           Amount stranding         1           Stranding         3 wires stranded           Cable weight         51 g/m           Material wire insulation         PP           Amount wires         3           Outer diameter insulation         1,85 mm           Outer diameter insulation         1,85 mm           Outer diameter insulation         70 ± 5 Shore D           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         CFC-free, cadmium-free, silicone-free, halogen-free, lead-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           Conductor (sheath)         ± 5 %           Material jacket         PUR           Material property (jacket)         ± 5 %           Material property (jacket)         matte, good machinability, abrasion-resistant, low adhesion           Conductor resistance (wire)         ± 5	Installation   Cable	
Cable Type         3           Amount stranding         1           Stranding         3 wires stranded           Cable weigth         51 g/m           Material wire insulation         PP           Amount wires         3           Outer diameter insulation         1,85 mm           Outer diameter folerance core insulation         ±0,1 mm           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         **CFC-free, cadmium-free, silicone-free, halogen-free, lead-free           Printing color of wire insulation         white (solation black)           Amount strands (wire)         42           Diameter of siling wires         0,15 mm           Conductor yee (wire)         0,75 mm²           Material conductor wire         Stranded copper wire, bare           Conductor yee (wire)         strand class 6           Outer-diameter (jacket)         5,9 mm           Tolerance outer diameter (sheath)         ± 5 %           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         CFC-free, cadmium-free, silicone-free, halogen-free, lead-free           Material property (jacket)         96 thm @ 20 °C           Nomina		636
Amount stranding         1           Stranding         3 wires stranded           Cable weight         51 g/m           Meterial wire insulation         PP           Amount wires         3           Outer diameter insulation         1,85 mm           Outer diameter folorance core insulation         1,85 mm           Outer diameter folorance core insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         CFC-free, cadmium-free, silicone-free, habgen-free, lead-free           Printing color of wire insulation         white (isolation black)           Amount strands (wire)         42           Diameter of single wires         0,15 mm           Conductor of single wires         0,15 mm           Conductor type (wire)         975 mm²           Material conductor wire         Stranded class 6           Course-diameter (jacket)         5,9 mm           Tolerance outer diameter (sheath)         ± 5 %           Material jacket         PUR           Shore hardness jacket         PUR           Freedom from ingredients (jacket)         QFC-free, cadmium-free, silicone-free, lead-free           Material property (jacket)         25 NW @ 60 s <t< td=""><td></td><td></td></t<>		
Stranding   3 wires stranded   51 g/m	**	
Cable weigth         51 g/m           Material wire insulation         PP           Amount wires         3           Outer diameter insulation         1,85 mm           Outer diameter tolerance core insulation         ± 0,1 mm           Ingredient freeness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         Write (isolation black)           Printing color of wire insulation         white (isolation black)           Amount strands (wire)         42           Diameter of single wires         0,15 mm           Conductor rosssection (wire)         0,75 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Outer-diameter (jacket)         5,9 mm           Tolerance outer diameter (sheath)         ± 5 %           Material jacket         PUR           Shore A         90 ± 5 Shore A           Freedom from ingredients (jacket)         CFC-free, cadmium-free, silicone-free, halogen-free, lead-free           Material property (jacket)         matte, good machinability, abrasion-resistant, low adhesion           Conductor resistance (wire)         26 Ω/km @ 20 °C           Nominal voltage (wire - wire)         2.5 kV @ 60 s           Withstand voltage (wire	<u> </u>	<u> </u>
Material wire insulation         PP           Amount wires         3           Outer diameter insulation         1,85 mm           Outer diameter tolerance core insulation         ± 0,1 mm           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         CPC-free, cadmium-free, silicone-free, halogen-free, lead-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           Outer-diameter (jacket)         5,9 mm           Tolerance outer diameter (shealth)         ± 5 %           Material packet         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         CPC-free, cadmium-free, silicone-free, halogen-free, lead-free           Material property (jacket)         matte, good machinability, abrasion-resistant, low adhesion           Conductor resistance (wire)         26 Ω/km @ 20 °C           Nominal voltage (wire - wire)         2.5 kV @ 60 s           Withstand voltage (wire - wire) <t< td=""><td>Cable weigth</td><td></td></t<>	Cable weigth	
Amount wires         3           Outer diameter insulation         1,85 mm           Outer diameter tolerance core insulation         ± 0,1 mm           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         CPC-free, cadmium-free, silicone-free, halogen-free, lead-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           Outer-diameter (jacket)         5,9 mm           Tolerance outer diameter (sheath)         ± 5 %           Material jacket         PUR           Shore hardness jacket         PUR           Shore hardness jacket         PUR           Material property (jacket)         matte, good machinability, abrasion-resistant, low adhesion           Conductor resistance (wire)         26 Ω/km @ 20 °C           Mominal voltage (wire - wire)         2.5 kV @ 60 s           Withstand voltage (wire - jacket)         2.5 kV @ 60 s           Withstand voltage (wire - jacket)         2.5 kV @ 60 s           Current l	Material wire insulation	
Outer diameter insulation         1,85 mm           Outer diameter tolerance core insulation         ± 0,1 mm           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         CFC-free, cadmium-free, silicone-free, halogen-free, lead-free           Printing color of wire insulation         white (isolation black)           Amount strands (wire)         42           Diameter of single wires         0,15 mm           Conductor of single wires         0,75 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Outer-diameter (jacket)         5,9 mm           Tolerance outer diameter (sheath)         ± 5 %           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         CFC-free, cadmium-free, silicone-free, halogen-free, lead-free           Material property (jacket)         matte, good machinability, abrasion-resistant, low adhesion           Conductor resistance (wire)         25 Dkm @ 20 °C           Nominal voltage (wire - wire)         25 kV @ 60 s           Withstand voltage (wire - jacket)         2.5 kV @ 60 s           Withstand voltage (wire - jacket)         2.5 kV @ 60 s		
Outer diameter tolerance core insulation         ± 0,1 mm           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)         stranded copper wire, bare           Conductor type (wire)         stranded copper wire, bare           Contro-diameter (jacket)         5,9 mm           Tolerance outer diameter (sheath)         ± 5 %           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         CFC-free, cadmium-free, silicone-free, halogen-free, lead-free           Material property (jacket)         matte, good machinability, abrasion-resistant, low adhesion           Conductor resistance (wire)         26 Ω/km @ 20 °C           Nominal voltage (wire - wire)         2.5 kV @ 60 s           Withstand voltage (wire - wire)         2.5 kV @ 60 s           Withstand voltage (wire - siacket)         2.5 kV @ 60 s           Current load capacity (standard)         to DIN VDE 0298-4           Current load		
Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         CFC-free, cadmium-free, silicone-free, halogen-free, lead-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           Couter-diameter (jacket)         5.9 mm           Tolerance outer diameter (sheath)         ± 5 %           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         CFC-free, cadmium-free, silicone-free, halogen-free, lead-free           Material property (jacket)         CFC-free, cadmium-free, silicone-free, halogen-free, lead-free           Material property (jacket)         CFC-free, cadmium-free, silicone-free, halogen-free, lead-free           Nominal voltage AC max.         300 V           Withstand voltage (wire - jacket)         2.5 kV @ 60 s           Current load capacity (standard)         to DIN VDE 298-4           Current load capacity (standard)         to DIN VDE 298-4           Gurrent load capacity min. wire		· · · · · · · · · · · · · · · · · · ·
Ingredient freeness wire insulation CFC-free, cadmium-free, silicone-free, halogen-free, lead-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 Outer-diameter (jacket) 5,9 mm Tolerance outer diameter (sheath) ± 5 % Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) CFC-free, cadmium-free, silicone-free, halogen-free, lead-free Material property (jacket) matter, good machinability, abrasion-resistant, low adhesion Conductor resistance (wire) 26 Ω/km @ 20 °C Nominal voltage AC max. 300 V Withstand voltage (wire - jacket) 2.5 kV @ 60 s Withstand voltage (wire - jacket) 2.5 kV @ 60 s Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity is temperature (static) 40 °C Max. operating temperature (static) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (drag chain) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (drag chain) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (drag chain) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (drag chain) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (drag chain) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (drag chain) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (drag chain) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (drag chain) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (drag chain) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (drag chain) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (drag chain) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (drag chain)		
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)  Stranded copper wire, bare  Conductor type (wire)  Stranded copper wire, bare  Conductor diameter (jacket)  5,9 mm  Tolerance outer diameter (sheath)  ± 5 %  Material jacket  PUR  Shore hardness jacket  PUR  Shore hardness jacket  Freedom from ingredients (jacket)  CFC-free, cadmium-free, silicone-free, lead-free  Material property (jacket)  matte, good machinability, abrasion-resistant, low adhesion  Conductor resistance (wire)  26 Ω/km @ 20 °C  Nominal voltage AC max.  300 V  Withstand voltage (wire - wire)  2.5 kV @ 60 s  Current load capacity (standard)  to DIN VDE 0298-4  Current load capacity (standard)  to DIN VDE 0298-4  Min. operating temperature (static)  Awa. operating temperature (static)  Apo °C 90 °C @ 10000 h Operation  Operating temperature max. (dynamic)  25 °C  Operating temperature min. (dynamic)  Operating temperature min. (drag chain)  80 °C / 90 °C @ 10000 h Operation  Operating temperature min. (drag chain)  80 °C / 90 °C @ 10000 h Operation  Operating temperature max. (drag chain)  80 °C / 90 °C @ 10000 h Operation  Operating temperature max. (drag chain)  80 °C / 90 °C @ 10000 h Operation  Operating temperature max. (drag chain)  80 °C / 90 °C @ 10000 h Operation  Operating temperature max. (drag chain)  80 °C / 90 °C @ 10000 h Operation  Operating temperature max. (drag chain)  80 °C / 90 °C @ 10000 h Operation  Operating temperature max. (drag chain)  80 °C / 90 °C @ 10000 h Operation  Operating temperature max. (drag chain)  80 °C / 90 °C @ 10000 h Operation  Elame resistance  El Ec 6081-404  Chemical resistance		
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           Outer-diameter (jacket)         5,9 mm           Tolerance outer diameter (sheath)         ±5 %           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         CFC-free, cadmium-free, silicone-free, lead-free           Material property (jacket)         matte, good machinability, abrasion-resistant, low adhesion           Conductor resistance (wire)         26 Ω/km @ 20 °C           Nominal voltage AC max.         300 V           Withstand voltage (wire - wire)         2.5 kV @ 60 s           Withstand voltage (wire - jacket)         2.5 kV @ 60 s           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         12 A           Min. operating temperature (static)         80 °C / 90 °C @ 10000 h Operation           Operating temperature min. (dynamic)         -25 °C           Operating temperature max. (dynamic)         -25 °C           Operating temperature min. (drag chain)         -25 °C <td></td> <td></td>		
Conductor crosssection (wire)         0,75 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Outer-diameter (jacket)         5,9 mm           Tolerance outer diameter (sheath)         ± 5 %           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         CFC-free, cadmium-free, silicone-free, halogen-free, lead-free           Material property (jacket)         matte, good machinability, abrasion-resistant, low adhesion           Conductor resistance (wire)         26 Ω/km @ 20 °C           Nominal voltage AC max.         300 V           Withstand voltage (wire - wire)         2.5 kV @ 60 s           Withstand voltage (wire - jacket)         2.5 kV @ 60 s           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           Min. operating temperature (static)         -40 °C           Max. operating temperature (static)         80 °C / 90 °C @ 10000 h Operation           Operating temperature min. (dynamic)         -25 °C           Operating temperature min. (dring chain)         -25 °C           Operating t	-	,
Material conductor wire Stranded copper wire, bare  Conductor type (wire) strand class 6  Outer-diameter (jacket) 5,9 mm  Tolerance outer diameter (sheath) ± 5 %  Material jacket PUR  Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) matte, good machinability, abrasion-resistant, low adhesion  Conductor resistance (wire) 26 Ω/km @ 20 °C  Nominal voltage AC max. 300 V  Withstand voltage (wire - wire) 2.5 kV @ 60 s  Withstand voltage (wire - jacket) 2.5 kV @ 60 s  Withstand voltage (wire - jacket) 2.5 kV @ 60 s  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 12 A  Min. 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) -25 °C  Operating temperature max. (drag chain) 80 °C / 90 °C @ 10000 h Operation  Flame resistance UL 1581 § 1090, CSA FT2, IEC 60332-2-2  Oil resistance IEC 60811-404  Chemical resistance good	Diameter of single wires	0,15 mm
Material conductor wire Stranded copper wire, bare  Conductor type (wire) strand class 6  Outer-diameter (jacket) 5,9 mm  Tolerance outer diameter (sheath) ± 5 %  Material jacket PUR  Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) matte, good machinability, abrasion-resistant, low adhesion  Conductor resistance (wire) 26 Ω/km @ 20 °C  Nominal voltage AC max. 300 V  Withstand voltage (wire - wire) 2.5 kV @ 60 s  Withstand voltage (wire - jacket) 2.5 kV @ 60 s  Withstand voltage (wire - jacket) 2.5 kV @ 60 s  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 12 A  Min. 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) -25 °C  Operating temperature max. (drag chain) 80 °C / 90 °C @ 10000 h Operation  Flame resistance UL 1581 § 1090, CSA FT2, IEC 60332-2-2  Oil resistance IEC 60811-404  Chemical resistance good		0.75 mm <sup>2</sup>
Outer-diameter (jacket)         5,9 mm           Tolerance outer diameter (sheath)         ± 5 %           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         CFC-free, cadmium-free, silicone-free, halogen-free, lead-free           Material property (jacket)         matte, good machinability, abrasion-resistant, low adhesion           Conductor resistance (wire)         26 Ω/km @ 20 °C           Nominal voltage AC max.         300 V           Withstand voltage (wire - wire)         2.5 kV @ 60 s           Withstand voltage (wire - jacket)         2.5 kV @ 60 s           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         12 A           Min. operating temperature (static)         -40 °C           Max. operating temperature (static)         80 °C / 90 °C @ 10000 h Operation           Operating temperature min. (dynamic)         -25 °C           Operating temperature min. (drag chain)         -25 °C           Operating temperature min. (drag chain)         80 °C / 90 °C @ 10000 h Operation           Flame resistance         UL 1581 § 1090, CSA FT2, IEC 60332-2-2           Oil resistance         IEC 60811-404           Chemical resistance	Material conductor wire	Stranded copper wire, bare
Tolerance outer diameter (sheath) ± 5 %  Material jacket PUR  Shore hardness jacket 99 ± 5 Shore A  Freedom from ingredients (jacket) CFC-free, cadmium-free, silicone-free, halogen-free, lead-free  Material property (jacket) matte, good machinability, abrasion-resistant, low adhesion  Conductor resistance (wire) 26 Ω/km @ 20 °C  Nominal voltage AC max. 300 V  Withstand voltage (wire - wire) 2.5 kV @ 60 s  Withstand voltage (wire - jacket) 2.5 kV @ 60 s  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 12 A  Min. operating temperature (static) 40 °C  Max. operating temperature (static) 80 °C / 90 °C @ 10000 h Operation  Operating temperature min. (dynamic) -25 °C  Operating temperature min. (drag chain) -25 °C  Operating temperature min. (drag chain) -25 °C  Operating temperature max. (drag chain) -25 °C	Conductor type (wire)	strand class 6
Material jacket PUR  Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) CFC-free, cadmium-free, silicone-free, halogen-free, lead-free  Material property (jacket) matte, good machinability, abrasion-resistant, low adhesion  Conductor resistance (wire) 26 Ω/km @ 20 °C  Nominal voltage AC max. 300 V  Withstand voltage (wire - wire) 2.5 kV @ 60 s  Withstand voltage (wire - jacket) 2.5 kV @ 60 s  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 12 A  Min. operating temperature (static) 40 °C  Max. operating temperature (static) 80 °C / 90 °C @ 10000 h Operation  Operating temperature max. (dynamic) -25 °C  Operating temperature min. (drag chain) -25 °C  Operating temperature max. (drag chain) 80 °C / 90 °C @ 10000 h Operation  Flame resistance UL 1581 § 1090, CSA FT2, IEC 60332-2-2  Oil resistance IEC 60811-404  Chemical resistance good	Outer-diameter (jacket)	5,9 mm
Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         CFC-free, cadmium-free, silicone-free, halogen-free, lead-free           Material property (jacket)         matte, good machinability, abrasion-resistant, low adhesion           Conductor resistance (wire)         26 Ω/km @ 20 °C           Nominal voltage AC max.         300 V           Withstand voltage (wire - wire)         2.5 kV @ 60 s           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         12 A           Min. operating temperature (static)         -40 °C           Max. 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           Operating temperature max. (drag chain)         -25 °C           Operating temperature max. (drag chain)         80 °C / 90 °C @ 10000 h Operation           Flame resistance         UL 1581 § 1090, CSA FT2, IEC 60332-2-2           Oil resistance         IEC 60811-404           Chemical resistance         good	Tolerance outer diameter (sheath)	+ 5 %
Shore hardness jacket       90 ± 5 Shore A         Freedom from ingredients (jacket)       CFC-free, cadmium-free, silicone-free, halogen-free, lead-free         Material property (jacket)       matte, good machinability, abrasion-resistant, low adhesion         Conductor resistance (wire)       26 Ω/km @ 20 °C         Nominal voltage AC max.       300 V         Withstand voltage (wire - wire)       2.5 kV @ 60 s         Withstand voltage (wire - jacket)       2.5 kV @ 60 s         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity min. wire       12 A         Min. operating temperature (static)       -40 °C         Max. 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         Operating temperature max. (drag chain)       -25 °C         Operating temperature max. (drag chain)       80 °C / 90 °C @ 10000 h Operation         Flame resistance       UL 1581 § 1090, CSA FT2, IEC 60332-2-2         Oil resistance       IEC 60811-404         Chemical resistance       IEC 60811-404	Material jacket	
Freedom from ingredients (jacket)  CFC-free, cadmium-free, silicone-free, halogen-free, lead-free  Material property (jacket)  matte, good machinability, abrasion-resistant, low adhesion  Conductor resistance (wire)  26 Ω/km @ 20 °C  Nominal voltage AC max.  300 V  Withstand voltage (wire - wire)  2.5 kV @ 60 s  Withstand voltage (wire - jacket)  2.5 kV @ 60 s  Current load capacity (standard)  to DIN VDE 0298-4  Current load capacity (standard)  to DIN VDE 0298-4  Min. operating temperature (static)  40 °C  Max. operating temperature (static)  Ao °C / 90 °C @ 10000 h Operation  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  Operating temperature min. (drag chain)  -25 °C  Operating temperature max. (drag chain)  -25 °C  Operating temperature max. (drag chain)  -25 °C  Operating temperature max. (drag chain)  80 °C / 90 °C @ 10000 h Operation  Flame resistance  UL 1581 § 1090, CSA FT2, IEC 60332-2-2  Oil resistance  IEC 60811-404  Chemical resistance  good		
Material property (jacket)       matte, good machinability, abrasion-resistant, low adhesion         Conductor resistance (wire)       26 Ω/km @ 20 °C         Nominal voltage AC max.       300 V         Withstand voltage (wire - wire)       2.5 kV @ 60 s         Withstand voltage (wire - jacket)       2.5 kV @ 60 s         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity min. wire       12 A         Min. operating temperature (static)       40 °C         Max. 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         Operating temperature min. (drag chain)       -25 °C         Operating temperature max. (drag chain)       80 °C / 90 °C @ 10000 h Operation         Flame resistance       UL 1581 § 1090, CSA FT2, IEC 60332-2-2         Oil resistance       IEC 60811-404         Chemical resistance       good	<u> </u>	
Conductor resistance (wire)  26 Ω/km @ 20 °C  Nominal voltage AC max.  300 V  Withstand voltage (wire - wire)  2.5 kV @ 60 s  Withstand voltage (wire - jacket)  2.5 kV @ 60 s  Current load capacity (standard)  to DIN VDE 0298-4  Current load capacity min. wire  12 A  Min. operating temperature (static)  Max. operating temperature (static)  40 °C  Max. operating temperature (static)  Operating temperature min. (dynamic)  -25 °C  Operating temperature max. (dynamic)  Operating temperature min. (drag chain)  -25 °C  Operating temperature max. (drag chain)  -25 °C  Operating temperature max. (drag chain)  80 °C / 90 °C @ 10000 h Operation  Flame resistance  UL 1581 § 1090, CSA FT2, IEC 60332-2-2  Oil resistance  IEC 60811-404  Chemical resistance	<u> </u>	
Nominal voltage AC max.  300 V  Withstand voltage (wire - wire)  2.5 kV @ 60 s  Withstand voltage (wire - jacket)  2.5 kV @ 60 s  Current load capacity (standard)  to DIN VDE 0298-4  Current load capacity min. wire  12 A  Min. operating temperature (static)  Max. operating temperature (static)  Operating temperature min. (dynamic)  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  Operating temperature min. (drag chain)  Operating temperature min. (drag chain)  -25 °C  Operating temperature max. (drag chain)  -25 °C		
Withstand voltage (wire - wire)  2.5 kV @ 60 s  Withstand voltage (wire - jacket)  2.5 kV @ 60 s  Current load capacity (standard)  to DIN VDE 0298-4  Current load capacity min. wire  12 A  Min. operating temperature (static)  Max. operating temperature (static)  Operating temperature min. (dynamic)  -25 °C  Operating temperature max. (dynamic)  Operating temperature min. (drag chain)  -25 °C  Operating temperature max. (drag chain)  -25 °C  Operating temperature max. (drag chain)  -25 °C  Operating temperature min. (drag chain)  -25 °C  Operating temperature min. (drag chain)  -25 °C  Operating temperature min. (drag chain)  -25 °C  Operating temperature max. (drag chain)  -25 °C  Operating temperature max. (drag chain)  -25 °C  Operating temperature max. (drag chain)  -25 °C  Operating temperature min. (drag		<del>_</del>
Withstand voltage (wire - jacket)  Current load capacity (standard)  to DIN VDE 0298-4  Current load capacity min. wire  12 A  Min. operating temperature (static)  Max. operating temperature (static)  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (drag chain)  Operating temperature min. (drag chain)  Operating temperature min. (drag chain)  Operating temperature max. (drag chain)  Operating te		
Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 12 A  Min. operating temperature (static) -40 °C  Max. 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  Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation  Operating temperature min. (drag chain) -25 °C  Operating temperature max. (drag chain) 80 °C / 90 °C @ 10000 h Operation  Flame resistance UL 1581 § 1090, CSA FT2, IEC 60332-2-2  Oil resistance IEC 60811-404  Chemical resistance good		
Current load capacity min. wire 12 A  Min. operating temperature (static) -40 °C  Max. 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  Operating temperature min. (drag chain) -25 °C  Operating temperature min. (drag chain) -25 °C  Operating temperature max. (drag chain) 80 °C / 90 °C @ 10000 h Operation  Flame resistance UL 1581 § 1090, CSA FT2, IEC 60332-2-2  Oil resistance IEC 60811-404  Chemical resistance good		
Min. operating temperature (static)  Max. operating temperature (static)  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  Operating temperature min. (drag chain)  Operating temperature min. (drag chain)  Operating temperature max. (drag chain)  Operating temper		
Max. operating temperature (static)  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  Operating temperature min. (drag chain)  Operating temperature min. (drag chain)  Operating temperature max. (drag chain)  Operating		
Operating temperature min. (dynamic) Operating temperature max. (dynamic) Operating temperature max. (dynamic) Operating temperature min. (drag chain) Operating temperature max. (drag chain) Operating tempe		
Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation  Operating temperature min. (drag chain) -25 °C  Operating temperature max. (drag chain) 80 °C / 90 °C @ 10000 h Operation  Flame resistance UL 1581 § 1090, CSA FT2, IEC 60332-2-2  Oil resistance IEC 60811-404  Chemical resistance good		
Operating temperature min. (drag chain)  -25 °C  Operating temperature max. (drag chain)  80 °C / 90 °C @ 10000 h Operation  Flame resistance  UL 1581 § 1090, CSA FT2, IEC 60332-2-2  Oil resistance  IEC 60811-404  Chemical resistance  good	Operating temperature max. (dynamic)	
Operating temperature max. (drag chain) 80 °C / 90 °C @ 10000 h Operation  Flame resistance UL 1581 § 1090, CSA FT2, IEC 60332-2-2  Oil resistance IEC 60811-404  Chemical resistance good	Operating temperature min. (drag chain)	
Flame resistance UL 1581 § 1090, CSA FT2, IEC 60332-2-2 Oil resistance IEC 60811-404 Chemical resistance good	<u> </u>	
Oil resistance IEC 60811-404 Chemical resistance good		<u> </u>
Chemical resistance good		
	Other resistances	

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: 2025-12-12



Bending radius (fixed)	5 × Outer diameter
Bending radius (dynamic)	10 × Outer diameter
No. of bending cycles (C-track)	10 Mio. @ 25 °C
Traversing distance (C-track)	10 m @ 25 °C   horizontal
Travel speed (C-track)	3 m/s @ 25 °C
Acceleration (C-track)	10 m/s² @ 25 °C
No. of torsion cycles	2 Mio.
Torsion stress	± 180 °/m
Torsion speed	35 cycles/min