

## MSUD valve plug BI-11mm with cable

PVC 3x0.75 bk 10m

**MSUD** Form BI (11 mm) 24 V AC ±20% / DC ±25% LED and suppression

Further cable lengths on request.

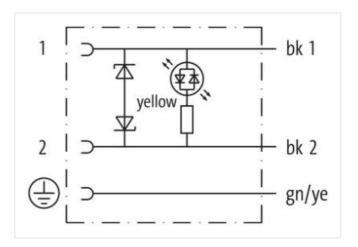
Plastic housings with good resistance against chemicals and oils.

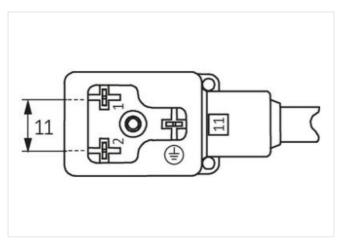
The resistance to aggressive media should be individually tested for your application. Further details on request.

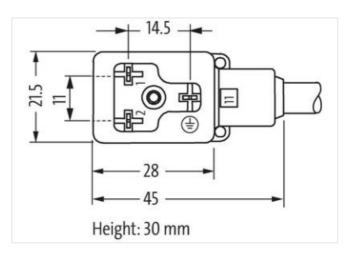
## **Link to Product**

## Illustration









Product may differ from Image









Cable length

10 m

Side 1

Tightening torque 0,4 Nm

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: 2024-05-17



stay connected

Family construction form         MSUD BI           Thread         M3           Material         PBT           Degree of protection (EN IEC 60529)         IP67           Commercial data           ECLASS 6.0         27279218           ECLASS 7.0         27379218           ECLASS 8.0         27279218           ECLASS 9.0         27060312           ECLASS 9.1.1         27060312           ECLASS 9.1.2.0         27060312           ECLASS 9.1.3         27060312           ETIM 5.0         ECO01855           customs tariff number         85444290           GTIN         4048673221498           Packaging unit         1           Electrical data         20 ms           Electrical data [Supply         20 ms           Operating voltage AC min.         19.2 V           Operating voltage AC min.         19.2 V           Operating voltage AC min.         19.2 V           Operating voltage DC min.         18 V           Operating voltage DC min.         18 V           Operating voltage DC min.         15 mA           Urrent operating per contact max.         4 A           Current operating per contact max.         4 A	Mounting method	inserted, screwed
Thread	Family construction form	MSUD BI
Meterial         PBT           Degree of protection (ENIEC 60269)         IPE7           Commercial data         Very Commercial data           ECLASS 6.0         2773918           ECLASS 7.0         2773918           ECLASS 8.0         27727918           ECLASS 9.0         27060312           ECLASS 1.1         27060312           ECLASS 1.1         27060312           ECLASS 1.2.0         2700312           ETIM-5.0         ECOLESS           COLTN         4048879221498           Packaging unit         1           Electrical data         Very Commercial data [Supply           Ceparating voltage AC         24 V           Operating voltage AC         24 V           Operating voltage AC Crisic         28 V           Operating voltage AC Crisic         18 V           Operating voltage AC Crisic         18 V           Operating voltage AC Crisic         18 V           Operating voltage DC Crisic         18 V           Operating voltage DC Crisic         18 V           Operating voltage DC max         15 Frak           Diagnostics         15 Frak           Status indication LED         yellow           Diagnostics         15 Frak<		
Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         2760311           ECLASS-8.0         2760312           ECLASS-1.1         27069312           ECLASS-1.2.0         27069312           ETM-5.0         ECOMISES           coutons tariff number         40447820           GTN         404478221498           Packaging unit         1           Electrical data         Electrical data           Electrical data         20 ms           Electrical data (Supply         20 ms           Electrical data (Supply         20 ms           Operating voltage AC min.         19.2 V           Operating voltage AC min.         19.0 V           Operating voltage AC min.         19.0 V           Current operating voltage AC min.         19.0 V           Current operating voltage AC min.         19.0 V           Current operating voltage AC min.         19.0 V           State indicaton LED	Material	PBT
Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         2760311           ECLASS-8.0         2760312           ECLASS-1.1         27069312           ECLASS-1.2.0         27069312           ETM-5.0         ECOMISES           coutons tariff number         40447820           GTN         404478221498           Packaging unit         1           Electrical data         Electrical data           Electrical data         20 ms           Electrical data (Supply         20 ms           Electrical data (Supply         20 ms           Operating voltage AC min.         19.2 V           Operating voltage AC min.         19.0 V           Operating voltage AC min.         19.0 V           Current operating voltage AC min.         19.0 V           Current operating voltage AC min.         19.0 V           Current operating voltage AC min.         19.0 V           State indicaton LED	Degree of protection (EN IEC 60529)	IP67
ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27000311           ECLASS-11.1         27060312           ECLASS-12.0         27060312           ECLASS-11.1         27060312           ECLASS-12.0         27060312           ECLASS-12.0         27060312           ECLASS-10.1         4048879221488           Packaging unit         1           Electrical data         4048879221488           Packaging volt         1           Electrical data   Supply         V           Operating voltage AC         24 V           Operating voltage AC max.         28 A V           Operating voltage AC max.         28 A V           Operating voltage DC min.         18 V           Operating voltage DC min.         18 V           Operating voltage DC min.         18 V           Operating voltage DC max.         30 V           Cut of peak voltage DC max.         15 m A           Disconsistor         5 to A           Pull of peak voltage DC max.         15 m A           Disconsistor         1           Sults in incation LED         yoltow		
ECLASS 7.0         27278218           ECLASS 8.0         27278218           ECLASS 9.0         27060311           ECLASS 10.1         27060312           ECLASS 11.1         27060312           ECLASS 12.0         27060312           ETIM-S.0         ECO01865           cuctions fairfl rumber         6444290           GTIN         4048878221498           Peckaging unt         1           Electrical date         1           Electrical date Supply         1           Operating voltage AC         24 V           Operating voltage AC max         28,8 V           Operating voltage AC max         28,8 V           Operating voltage DC max         28,9 V           Operating voltage DC max         30 V           Cul-of lapsak voltage max         55 V           Cul-of lapsak voltage max         15 mA           Diagnostice         10 mA           Pilatus indication LED         yellow           Installation [Connection         MS		07070010
ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-1.1         27060312           ECLASS-1.1.1         27060312           ECLASS-1.2.0         27060312           ETIM 5.0         ECO01865           customs farill rumbur         85444290           GTIN         404879221498           Packaging unit         1           Electrical data         Electrical data           Electrical data i Supply         V           Operating voltage AC         24 V           Operating voltage AC max.         28,8 V           Operating voltage AC max.         28,8 V           Operating voltage BC max.         30 V           Cut of lopax voltage BC max.         30 V           Cut of lopax voltage max.         35 V           Cut of lopax voltage max.         35 V           Cut of lopax voltage max.         15 mA           Disagnatics         Status indicaton LED           Status indicaton LED         yellow           Installation   Connection         Ma           Mounting set         Ma           Additional condition protection degree         inserted, scrowed           Pollution begree         3           Rated surge voltag		
ECLASS 9.0         27060311           ECLASS 10.1         27060312           ECLASS 11.1         27060312           ECLASS 12.0         27060312           ECLASS 14.0         EC060355           countors fairl'number         85444290           GTIN         4048878221498           Packaging unit         1           Electrical data           Electrical data   Supty           Operating voltage AC         24 V           Operating voltage AC min.         19,2 V           Operating voltage AC min.         19,2 V           Operating voltage AC min.         19,2 V           Operating voltage DC max.         28,8 V           Operating voltage DC max.         30 V           Current consumption max.         15 mA           Deperating voltage paracontal max.         4 A           Current consumption max.         15 mA           Diagnostics         Status indication LED           Volument consumption max.         15 mA           Diagnostics         Walk           Status indication protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         0,8 kV           Materiag roup (IEC 60664		
ECLASS 10.1         27060312           ECLASS 11.0         27060312           ETIM-5.0         EC001855           customs tariff number         85442890           GTIN         4048079221498           Packaging unit         1           Cleberical data         Electrical data           Capacity CX         20 ms           Electrical data   Supply         Electrical data   Supply           Operating voltage AC         24 V           Operating voltage AC max.         28.9 V           Operating voltage AC max.         28.9 V           Operating voltage DC max.         30 V           Cut-off pack voltage DC max.         30 V           Cut-off pack voltage max.         4 A           Cut-off pack voltage max.         55 V           Cutrent operating per contact max.         4 A           Cutrent consumption max.         15 mA           Diagnostics         Status indication LED           Velocity pack voltage max.         55 V           Status indication LED         yellow           Installation   Connection           Mounting set         MS           Device protection   Electrical           Additional condition protection degree         insended. screwed		
ECLASS-1.11         27060312           ECLASS-12.0         27060312           ETIM 5.0         EC001855           oustoms tarff rumber         85444280           GTIN         404887921498           Packaging unt         1           Electrical data           Electrical data   Supply           Operating voltage AC           Operating voltage AC min.         19.2 V           Operating voltage AC min.         19.2 V           Operating voltage DC min.         18.4 V           Oursent operating per contact max.         4 A           Current oneswiption max.         15 mA           Diagnostics           Status indication I ED         yellow           Institution I Connection           Mounting set           Additional protection degree         inserted, screwed           Pollution Degree         0,		
ECI ASS-12.0         27060312           ETIMS.0         EC001885           uoustoms teriff number         85444290           GTIN         4048879221498           Packaging unit         1           Capacity CX         20 ms           Electrical data   Supply         Capacity CX           Operating voltage AC         24 V           Operating voltage AC min.         13 2 V           Operating voltage AC min.         18 2 V           Operating voltage AC min.         18 V           Operating voltage DC min.         18 V           Operating voltage DC min.         18 V           Operating voltage pc Cmin.         18 V           Operating voltage pre contact max.         4 A           Current operating per contact max.         4 A           Current operating voltage max.         55 V           Status indication LED         yellow           Installation   Connection         Ma           Mounting set         M3           Device protection   Electrical           Additional condition protection degree         3           Release all you (IEC 60664-1)         1           Additional suppressor         Diode, Z-Diode           Mechanical data   Material data         Steel		
ETIM-5.0         EC001855           customs tarif number         85444290           GTIN         404879221498           Packaging unit         1           Electrical data           Electrical data   Suppty           Operating voltage AC         24 V           Operating voltage AC min.         19.2 V           Operating voltage AC min.         19.2 V           Operating voltage DC         24 V           Operating voltage DC min.         18 V           Operating voltage DC min.         18 V           Operating voltage DC max.         30 V           Cut-off pask voltage max.         55 V           Cut-orner operating per contact max.         4 A           Diagnostics         Status indication LED           Status indication (Ponection         willow           Mounting set         M3           Device protection   Electrical           Additional protection operate         inserted, screwed           Pollution Degree         3           Related surge voltage         0.8 kV           Material group (ICC 60664-1)         1           Additional suppressor         Diode, 2-Diode           Mechanical data   Material data <t< td=""><td></td><td></td></t<>		
customs tariff number         85444290           GTIN         4048879221498           Packaging unit         1           Electrical data         V           Capacity CX         20 ms           Electrical data   Suppty         V           Operating voltage AC mon.         19,2 V           Operating voltage AC max.         28,8 V           Operating voltage DC max.         30 V           Operating voltage DC max.         30 V           Cut-off peak voltage max.         55 V           Cut-off peak voltage max.         15 mA           Cut-off peak voltage max.         4 A           Cut-off peak voltage max.         15 mA           Diagnostics         V           Status indication LED         yellow           Installation   Connection         W           Mounting set         M3           Device protection   Electrical           Additional one-group (IEC 60664-1)         I inserted, screwed           Pollution Degree         3           Rated surge voltage         0,8 kV           Material group (IEC 60664-1)         I code, a code of the		
GTIN         4048879221498           Packagin unit         1           Electrical data         Capacity CX         20 ms           Electrical data   Supply         Capacity CX         24 V           Operating voltage AC         24 V         Capacity CX         24 V           Operating voltage AC min.         19.2 V         Capacity CX         24 V           Operating voltage AC min.         18 V         Capacity CX         24 V           Operating voltage DC min.         18 V         Capacity CX         Capacity C		
Packaging unit         1           Electrical data         20 ons           Electrical data   Supply         V           Operating voltage AC         24 V           Operating voltage AC min.         19.2 V           Operating voltage AC min.         19.2 V           Operating voltage DC min.         18 V           Operating voltage DC min.         18 V           Operating voltage DC min.         18 V           Operating voltage pc max.         55 V           Current operating per contact max.         4 A           Current operating per contact max.         4 A           Current operating per contact max.         4 N           Use indication LED         yellow           Installation   Connection         yellow           Device protection   Electrical           Additional condition protection degree         3           Pollution Degree         3           Rated surge voltage         0.8 kV           Material group (ES 60964*)         1           Additional suppressor         Diode, Z-Diode           Mechanical data   Material data         Verzinkt           Coaling locking         verzinkt           Color housing         black           Material gasket         PUR <td></td> <td></td>		
Electrical data   Supply           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 min.         18 V           Operating voltage DC min.         18 V           Operating voltage DC min.         30 V           Cut-off peak voltage max.         55 V           Cut-off peak voltage max.         15 mA           Current consumption max.         15 mA           Voltage max.         4 A           Current consumption max.         15 mA           Voltage max.         15 mA           Voltage max.         4 A           Current consumption max.         15 mA           Voltage max.         16 max.           Voltage max.         18 max.           Voltage max.         18 max.           Voltage max.         18 max.           Voltage max.<		
Capacity CX		<u> </u>
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           Cut-off peak voltage max.         4 A           Cutrent operating per contact max.         4 A           Cutrent consumption max.         15 mA           Diagnostics         Wellow           Installation   Connection         yellow           Installation   Connection         Ma           Mounting set         M3           Device protection   Electrical         Additional condition protection degree           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         0.8 kV           Material group (ICC 60684-1)         I           Additional suppressor         Doke, Z-Diode           Mechanical data   Material data           Coating locking         verzinkt           Coating locking         verzinkt           Coating locking         <	Electrical data	
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           Cutrent operating per contact max.         4 A           Current consumption max.         15 mA           Diagnostics           Status indication LED         yellow           Installation   Connection           Mounting set         M3           Device protection   Electrical           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         0,8 kV           Material group (IEC 60664-1)         I           Additional surpressor         Diode, 2-Diode           Mechanical data   Material data           Coating of litting         verzinkt           Coating of litting         verzinkt           Coating of litting         verzinkt           Coating of	Capacity CX	20 ms
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-oil peak voltage max.         55 V           Current operating per contact max.         4 A           Current consumption max.         15 mA           Diagnostics           Status indication LED         yellow           Installation   Connection           Mounting set         M3           Device protection   Electrical         M3           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         0,8 kV           Material group (EC 60664-1)         1           Additional suppressor         Diode, Z-Diode           Mechanical data   Material data         Verzinkt           Coating locking         verzinkt           Coating of fitting         verzinkt           Coating ing fitting         verzinkt           Coating material         Steel           Material screw connection         Steel           Mechanical data   Mounting data	Electrical data   Supply	
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-oil peak voltage max.         55 V           Current operating per contact max.         4 A           Current consumption max.         15 mA           Diagnostics           Status indication LED         yellow           Installation   Connection           Mounting set         M3           Device protection   Electrical         M3           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         0,8 kV           Material group (EC 60664-1)         1           Additional suppressor         Diode, Z-Diode           Mechanical data   Material data         Verzinkt           Coating locking         verzinkt           Coating of fitting         verzinkt           Coating ing fitting         verzinkt           Coating material         Steel           Material screw connection         Steel           Mechanical data   Mounting data	Operating voltage AC	24 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.         15 mA           Diagnostics           Status indication LED         yellow           Installation   Connection           Mounting set         M3           Device protection   Electrical           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         0,8 kV           Material group (IEC 60664-1)         1           Additional suppressor         Diode, Z-Diode           Mechanical data   Material data         Verzinkt           Coating of fitting         verzinkt           Coating of fitting         verzinkt           Color housing         black           Material gasket         PUR           Locking material         Steel           Mechanical data   Mounting data           Mounting method         inserted, screwed           <		
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.         15 mA           Diagnostics           Status indication LED         yellow           Installation   Connection         M3           Device protectin   Electrical         M4           Additional condition protection degree         3           Pollution Degree         3           Rated surge voltage         0.8 kV           Material group (IEC 6664-1)         1           Additional suppressor         Diode, Z-Diode           Mechanical data   Material data         Verzinkt           Coating locking         verzinkt           Coating locking         verzinkt           Coating naterial         Steel           Material gasket         PUR           Locking material         Steel           Mechanical data   Mounting data           Mechanical data   Mounting data           Mounting method         inserted, screwed           Environmental characteristics   Climatic           Operating te		•
Operating voltage DC min.         18 V           Operating voltage DC max.         30 V           Cut-off peak voltage max.         55 V           Cutrent operating per contact max.         4 A           Current consumption max.         15 mA           Diagnostics           Status indication LED         yellow           Installation   Connection           Mounting set         M3           Device protection   Electrical           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         0,8 kV           Material group (IEC 60664-1)         I           Additional suppressor         Diode, 2-Diode           Mechanical data   Material data         Verzinkt           Coating of fitting         verzinkt           Color housing         black           Material gasket         PUR           Locking material         Steel           Mechanical data   Mounting data           Mounting method         inserted, screwed           Environmental characteristics   Climatic           Operating temperature min.         -25 °C		
Operating voltage DC max.         30 V           Cut-oft peak voltage max.         55 V           Current operating per contact max.         4 A           Current consumption max.         15 mA           Diagnostics           Status indication LED           Installation   Connection           Mounting set         M3           Device protection   Electrical           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         0,8 kV           Material group (IEC 60664-1)         I           Additional suppressor         Diode, Z-Diode           Mechanical data   Material data           Coating locking         verzinkt           Coating of fitting         verzinkt           Color housing         black           Material gasket         PUR           Locking material         Steel           Mechanical data   Mounting data           Mounting method         inserted, screwed           Environmental characteristics   Climatic           Operating temperature min.         -25 °C		18 V
Cut-off peak voltage max.         55 V           Current operating per contact max.         4 A           Current consumption max.         15 mA           Diagnostics           Status indication LED         yellow           Installation   Connection           Mounting set         M3           Device protection   Electrical           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         0,8 kV           Material group (IEC 60664-1)         1           Additional suppressor         Diode, Z-Diode           Mechanical data   Material data           Costing locking           Verzinkt           Coating of fitting         verzinkt           Color housing         black           Material gasket         PUR           Locking material         Steel           Mechanical data   Mounting data           Mounting method         inserted, screwed           Environmental characteristics   Climatic           Operating temperature min.         -25 °C		30 V
Current operating per contact max.         4 A           Current consumption max.         15 mA           Diagnostics           Status indication LED         yellow           Installation   Connection           Mounting set         M3           Device protection   Electrical           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         0,8 kV           Material group (IEC 60664-1)         I           Additional suppressor         Diode, Z-Diode           Mechanical data   Material data           Coating locking         verzinkt           Coating of fitting         verzinkt           Color housing         black           Material gasket         PUR           Locking material         Steel           Mechanical data   Mounting data           Mechanical data   Mounting data           Mechanical data   Mounting data           Mounting method         inserted, screwed           Environmental characteristics   Climatic           C		55 V
To many the consumption max.       15 mA         Diagnostics         Status indication LED       yellow         Installation   Connection         Mounting set       M3         Device protection   Electrical         Additional condition protection degree       inserted, screwed         Pollution Degree       3         Rated surge voltage       0,8 kV         Material group (IEC 60664-1)       1         Additional suppressor       Diode, Z-Diode         Mechanical data   Material data         Coating locking       verzinkt         Coating of fitting       verzinkt         Coating of fitting       verzinkt         Coating of fitting       verzinkt         Coating agaset       PUR         Locking material       Steel         Mechanical data   Mounting data         Mechanical data   Mounting data         Mechanical data   Mounting data         Mounting method       inserted, screwe		4 A
Status indication LED yellow  Installation   Connection  Mounting set M3  Device protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage 0,8 kV  Material group (IEC 60664-1) INDICATE OF CONTROLL STATE OF CONTROLL ST	Current consumption max.	15 mA
Status indication LED yellow  Installation   Connection  Mounting set M3  Device protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage 0,8 kV  Material group (IEC 60664-1) INDICATE OF CONTROLL STATE OF CONTROLL ST	Diagnostics	
Mounting set M3  Device protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage 0,8 kV  Material group (IEC 60664-1) I I  Additional suppressor Diode, Z-Diode  Mechanical data   Material data  Coating locking verzinkt  Coating of fitting verzinkt  Color housing black  Material gasket PUR  Locking material Steel  Material screw connection Steel  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Doparating temperature min25 °C		vellow
Mounting set M3  Povice protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage 0,8 kV  Material group (IEC 60664-1) I  Additional suppressor Diode, Z-Diode  Mechanical data   Material data  Coating locking verzinkt  Coating of fitting verzinkt  Color housing black  Material gasket PUR  Locking material  Aderial screw connection Steel  Mechanical data   Mounting data  Mechanical data   Mounting data  Mechanical data   Mounting data  Mechanical data   Mounting data  Fovironmental characteristics   Climatic  Deparating temperature min25 °C		youth
Device protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3 Rated surge voltage 0,8 kV  Material group (IEC 60664-1) I Additional suppressor Diode, Z-Diode  Mechanical data   Material data  Coating locking verzinkt  Coating of fitting verzinkt  Color housing black  Material gasket PUR  Locking material  Steel  Material screw connection Steel  Mechanical data   Mounting data  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °C		
Additional condition protection degree inserted, screwed  Pollution Degree 3 Rated surge voltage 0,8 kV  Material group (IEC 60664-1) I Additional suppressor Diode, Z-Diode  Mechanical data   Material data  Coating locking verzinkt Coating of fitting verzinkt Color housing black  Material gasket PUR Locking material Steel  Material screw connection Steel  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °C	Mounting set	M3
Pollution Degree 3 Rated surge voltage 0,8 kV  Material group (IEC 60664-1) I Additional suppressor Diode, Z-Diode  Mechanical data   Material data  Coating locking verzinkt Coating of fitting verzinkt Color housing black Material gasket PUR Locking material Steel  Material screw connection Steel  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Coperating temperature min25 °C	Device protection   Electrical	
Rated surge voltage       0,8 kV         Material group (IEC 60664-1)       I         Additional suppressor       Diode, Z-Diode         Mechanical data   Material data         Coating locking       verzinkt         Coating of fitting       verzinkt         Color housing       black         Material gasket       PUR         Locking material       Steel         Material screw connection       Steel         Mechanical data   Mounting data       Mounting method         Inserted, screwed       inserted, screwed         Environmental characteristics   Climatic         Operating temperature min.       -25 °C	Additional condition protection degree	inserted, screwed
Material group (IEC 60664-1) I Diode, Z-Diode  Mechanical data   Material data  Coating locking verzinkt Coating of fitting verzinkt Color housing black Material gasket PUR Locking material Steel  Material screw connection Steel  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °C	Pollution Degree	3
Additional suppressor Diode, Z-Diode  Mechanical data   Material data  Coating locking verzinkt  Coating of fitting verzinkt  Color housing black  Material gasket PUR  Locking material Steel  Material screw connection Steel  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °C	Rated surge voltage	0,8 kV
Mechanical data   Material data  Coating locking verzinkt Coating of fitting verzinkt Color housing black Material gasket PUR Locking material Steel Material screw connection Steel  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °C	Material group (IEC 60664-1)	I
Coating locking verzinkt Coating of fitting verzinkt Color housing black Material gasket PUR Locking material Steel Material screw connection Steel  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °C	Additional suppressor	Diode, Z-Diode
Coating locking verzinkt Coating of fitting verzinkt Color housing black Material gasket PUR Locking material Steel Material screw connection Steel  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °C	Mechanical data   Material data	
Coating of fitting verzinkt  Color housing black  Material gasket PUR  Locking material Steel  Material screw connection Steel  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °C		verzinkt
Color housing black Material gasket PUR Locking material Steel Material screw connection Steel  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °C		
Material gasket Locking material Steel Material screw connection Steel  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min.  PUR  Steel  Steel  Inserted, screwed  For inserted, screwed  -25 °C		
Locking material  Material screw connection  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min.  Steel  Steel  Steel  Author Steel  Steel  Steel  Steel  Author Steel  Steel  Steel  Author Steel  Steel  Author Steel  Steel  Author Steel  Steel  Author S		
Material screw connection  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min.  Steel		
Mechanical data   Mounting data       Mounting method     inserted, screwed       Environmental characteristics   Climatic       Operating temperature min.     -25 °C		
Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °C		
Environmental characteristics   Climatic  Operating temperature min25 °C		incorted personal
Operating temperature min25 °C		
Operating temperature max. 85 °C		
	Operating temperature max.	85 °C

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: 2024-05-17



stay connected

Additional condition temperature range	depending on cable quality
Important installation notes	
Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Note on bending radius	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Installation   Cable	
Cable identification	616
Cable Type	1
Printing color of wire insulation	white (isolation black)
Jacket Color	black
Amount stranding	1
Stranding	3 wires twisted
wire arrangement	black 1, black 2, green-yellow
Cable weigth	61,6 g/m
Material jacket	PVC
Shore hardness jacket	80 ± 5 Shore A
<u> </u>	lead-free, cadmium-free, CFC-free, silicone-free
Freedom from ingredients (jacket)	
Outer-diameter (jacket)	5,9 mm
Tolerance outer diameter (sheath)	±5% PVC
Material wire insulation	
Amount wires	3
Outer diameter insulation	1,8 mm
Outer diameter tolerance core insulation	± 5 %
Shore hardness wire insulation	43 ± 5 Shore D
Material properties wire insulation	good machinability
Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, silicone-free
Printing color of wire insulation	white (isolation black)
Amount strands (wire)	24
Diameter of single wires	0,2 mm
Conductor crosssection (wire)	0,75 mm²
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	Strand class 5
Max. rated voltage (conductor - conductor)	500 V
Max. rated voltage (conductor - ground)	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)	3 kV @ 60 s
Power frequency withstand voltage (wire - jacket)	3 kV @ 60 s
Min. operating temperature (static)	-30 °C
Max. operating temperature (fixed)	70 °C
Operating temperature min. (dynamic)	-5 °C
Operating temperature max. (dynamic)	70 °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)	5 x Outer diameter