

## MSUD valve plug BI-11mm with cable

PVC 3x0.75 bk 3m

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

Further cable lengths on request.

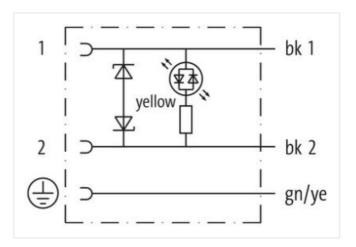
Plastic housings with good resistance against chemicals and oils.

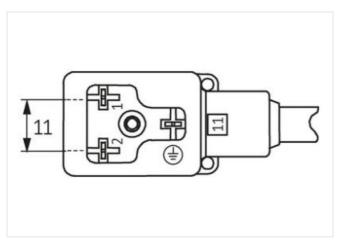
The resistance to aggressive media should be individually tested for your application. Further details on request.

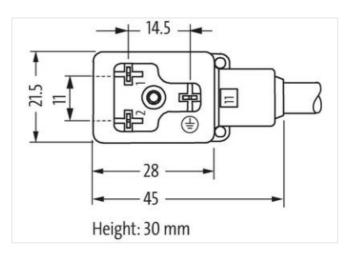
## **Link to Product**

## Illustration









Product may differ from Image









Cable length

3 m

Side 1

Tightening torque 0,4 Nm



stay connected

Family construction form MSUD BI Thread M3	Mounting method	inserted, screwed
Timesed         M8           Mesterial         PBT           Degree of protection (EN ICC 60529)         PBT           Commercial data         PBT           ECLASS-R0         27279218           ECLASS-R0         2779218           ECLASS-R0         2779218           ECLASS-R0         2779218           ECLASS-R10         27095012           ECLASS-R11         27095012           ECLASS-R120         27095012           ECLASS-R10         ECO001085           COLASS-R11         27095012           ECLASS-R120         27095012           ECLASS-R10         ECO001085           COLASS-R11         408893221535           PREAMING mit make         55-44329           COTIN         4018893221535           PREAMING mit make         20 ms           Electrical data         70           Drop out deby line max         20 ms           Electrical data         70           Drop out deby line max         20 ms           Electrical data         80 ms           Drop out deby line max         21 Ms           Operating voltage AC         21 V           Operating voltage AC         22 V	Family construction form	·
Meterial         PBT           Experied of protection (ENIEC 80289)         IP67           Commercial data         PETP           ECLASS 6.0         27739218           ECLASS 7.0         27739218           ECLASS 8.0         27050311           ECLASS 9.0         27050312           ECLASS-1.1         27060312           ECLASS-1.2         27060312           ECLASS-1.2.0         E001855           ECLASS-1.2.0         E001855           OTIN         4048578221535           Packaging unit         1           Electrical data         V           Drop out delay time max.         20 ms           Electrical data   Supply         V           Operating voltage AC         24 V           Operating voltage AC         24 V           Operating voltage AC max.         28 B V           Operating voltage DC min.         18 V           Operating voltage DC min.         18 V           Operating voltage DC max.         30 V           Cut-of topsating per contact max.         4 A           Cut-of topsating per contact max.         4 A           Cut-of topsating per contact max.         4 A           Cut-of topsating per contact max.         4 A </td <td></td> <td></td>		
Commercial data	Material	PBT
Commercial data	Degree of protection (EN IEC 60529)	IP67
ECILASS-6.0         27279218           ECILASS-7.0         27279218           ECILASS-8.0         27279218           ECILASS-9.0         27003311           ECILASS-10.1         27060312           ECILASS-11.1         27060312           ECILASS-12.0         27060312           ECILASS-12.0         27060312           ECILASS-12.0         27060312           ECILASS-12.0         1001855           customs sarff number         8544220           GTIN         4048879221535           Packaging unit         1           Electrical data         1           Popo aud data yim max.         20 ns           Electrical data   Supply         1           Operating voltage AC         24 V           Operating voltage AC max.         28 B V           Operating voltage AC max.         28 B V           Operating voltage AC max.         28 B V           Operating voltage DC min.         18 V		
EGLASS-7.0         27279218           EGLASS-8.0         2779218           EGLASS-9.0         27060311           EGLASS-10.1         27060312           EGLASS-12.0         27060312           EGLASS-12.0         27060312           ETIM-5.0         ECO01895           Causions fariff number         8544290           GTIN         4048878221535           Packaging unit         1           Electrical data         20 ms           Electrical data   Supply           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           Cut of Lask voltage max         55 V           Cut of Lask voltage max         55 V           Cut of Lask voltage max         4A           Objective protection   Electrical max         4A           Additional contilion protection degree         inserted, screwed           Pollution Degree         3           Rated sings voltage max         15 mA           Device protection   Electrical max         4A           Additional contilion protection degree<		07070010
ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-9.1         27060312           ECLASS-11.1         27060312           ECLASS-12.0         27060312           ETIM-5.0         ECOIN 885           customs tarif number         85444290           GTIN         4048079221535           Packaging unit         1           Electrical data         ************************************		
ECLASS 9.0         27060311           ECLASS-10.1         27060312           ECLASS-11.1         27060312           ECLASS-12.0         27060312           ECLASS-12.0         ECO01855           cuctions fauff number         85444290           GTIN         4048879221535           Packaging unit         1           Electrical data         UPP-out delay time max.           Drop-out delay time max.         20 ms           Electrical data I Supply         Properating voltage AC max.           Operating voltage AC max.         28.8 V           Operating voltage AC max.         28.8 V           Operating voltage DC min.         18 V           Operating voltage DC min.         18 V           Operating voltage DC max.         30 V           Current consumption are consumption as a factor of the consumption and actor of the		
ECLASS-1.1         27060312           ECLASS-12.0         27060312           ETIMS-0         ECO01855           Costom Staff flumber         6544290           GTIN         4048679221535           Packagin gmit         1           Electrical data         Electrical data           Proport delay time max.         20 ms           Electrical data Supply         Electrical data Supply           Operating voltage AC         24 V           Operating voltage AC mn.         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.         18 V           Current operating per contact max.         4 A           Current operating per contact max.         4 A           Current operating per contact max.         4 S           Current operating set         8           Relacional condition protection degree         8 <td< td=""><td></td><td></td></td<>		
ECLASS-1.1.1         27060312           ECLASS-12.0         27060312           ETIMI-5.0         ECO01855           customs tariff rumber         85444290           GTIN         4048879221535           Packaging unit         1           Electrical data         Umb           Electrical data   Supply         February		
ECI ASS-12.0         27060312           ETIM-5.0         EC001885           customs tarff number         85444290           GTIN         4048879221535           Packaging unit         1           Electrical data         ************************************		
ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         40487921585           Packaging unit         1           Electrical data           Drop out delay in me max.         20 ms           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 max.         30 V           Cut-off pask voltage max.         55 V           Cut-off pask voltage max.         55 V           Cutrent operating per contact max.         4 A           Cutrent operating per contact max.         15 mA           Installation   Connection           Mounting set         M3           Deliver protection   Electrical           Additional protection of degree         inserted, screwed           Pollution Degree         3           Retact surge voltage         0.8 kV           Material group (ICE 60664-1)         1           Additional suppressor         Diod		
customs tariff number         85444290           GTIN         40488792215355           Packaging unit         1           Electrical data         Ums           Propout delay time max.         20 ms           Electrical data   Suppty         Vereating voltage AC           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 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           Installation   Connection         yellow           Installation   Connection         M3           Device protection   Electrical         Additional condition protection degree           Additional condition protection degree         3           Rated surge voltage         0,8 kV           Material group (IEC 60664-1)         I           Additional surgeressor         Diode, 2-Diode           Mechanical data   Material data         Verzinkt           Coating toking         verz		
GTIN         4048879221535           Packaging unit         1           Electrical data         V           Drop-out delay time max.         20 ms           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           Ourset operating per contact max.         4 A           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 60684-1)         1           Additional suppressor         Diode, 2-Diode           Mechanical data   Material data         vorzinkt		
Packaging unit         1           Electrical data         20 os           Drop-out delay time max.         20 os           Electrical data   Supply         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 DC max.         30 V           Current operating per contact max.         4 A           Current operating per contact max.         4 A           Current operating per contact max.         4 A           Diagnostics         5 to M           Installation   Connection         5 to M           Mounting set         Mounting set           Mounting set         Mounting set           Powice protection   Electrical           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           Coloring material<		
Electrical data         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 max.         30 V           Cut-off peak voltage max.         55 V           Cut-off peak voltage max.         15 mA           Current consumption max.         15 mA           Value of the content max.           AC quirent consumption max.         15 mA           Value of the content max.           Value of the content max.         4 A           Value of the content max.           Value of the content max.         4 A           Value of the content max.           Value of the content max.         4 A           Value of the content max.           Value of the content max.         4 A           Value of the content max.           Value of the content max.         4 A           Value of the content max.           Value of the content max.         4 A           Value of the content max.           Value of the content max.		
Drop-out delay time max.   20 ms		<u> </u>
Part	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           Cut-off peak voltage 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 60684-1)         I           Additional suppressor         Diode, Z-Diode           Mechanical data   Material data         Verzinkt           Coating of fitting         verzinkt           Coating of fitting         verzinkt           Coding material         Steel           Material gasket         PUR           Locking material         Steel	Drop-out delay time max.	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-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         M3           Additional condition protection degree         inserted, screwed           Follution 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 gasket         PUR           Locking material         Steel <td>Electrical data   Supply</td> <td></td>	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-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         M3           Additional condition protection degree         inserted, screwed           Follution 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 gasket         PUR           Locking material         Steel <td>Operating voltage AC</td> <td>24 V</td>	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)         I           Additional suppressor         Diode, Z-Diode           Mechanical data   Material data         Verzinkt           Coating fitting         verzinkt           Coating of fitting         verzinkt           Color housing         black           Material gasket         PUR           Locking material         Steel           Mechanical data   Mounting data         inserted, screwed           Mechanical data   Mounting data         ins		
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 protection   Electrical         M4           Additional condition protection degree         3           Pollution Degree         3           Rated surge voltage         0.8 kV           Material group (IEC 60684-1)         1           Additional suppressor         Diode, Z-Diode           Mechanical data   Material data         Coating locking           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 <td></td> <td>· · · · · · · · · · · · · · · · · · ·</td>		· · · · · · · · · · · · · · · · · · ·
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)         1           Additional suppressor         Diode, 2-Diode           Mechanical data   Material data         Verzinkt           Coating offiting         verzinkt           Coating offiting         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-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) I Additional suppressor Diode, Z-Diode  Mechanical data   Material data Coating locking verzinkt Coating of fitting verzinkt Color housing black Material gasket PUR Mechanical data   Mounting data Mounting method inserted, screwed  Environmental characteristics   Climatic Coperating temperature min25 °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)         I           Additional suppressor         Diode, Z-Diode           Mechanical data   Material data           Coating locking         verzinkt           Coating of fitting         verzinkt           Cooking material         Steel           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       Operating temperature min.     -25 °C		55 V
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  Cooler 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 min. 425 °C		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) 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		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) 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	Diagnostics	
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  Material screw connection Steel  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °C		vellow
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  Color housing black  Material gasket PUR  Locking material  Steel  Material screw connection Steel  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Departing 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  Coking material  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  Operating 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  Environmental characteristics   Climatic  Operating temperature min25 °C	Additional condition protection degree	inserted, screwed
Material group (IEC 60664-1)  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 min.  1  Diode, Z-Diode  Diode, Z-Diode  Verzinkt  Verzinkt  Verzinkt  Steel  Diack  Material gasket  PUR  Steel  Material gasket  PUR  Steel  Mechanical data   Mounting data  Mounting method  inserted, screwed	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 PUR  Locking material Steel  Material screw connection Steel  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °C		
Locking material  Material screw connection  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min.  Steel  Steel  Steel  Authority Steel  Steel  Steel  Steel  Authority Steel  Steel  Steel  Authority Steel  Steel  Authority Steel  Steel  Steel  Authority Steel  Steel  Authority S		
Material screw connection  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min.  -25 °C		
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 arrayed
Operating temperature min25 °C		
	Environmental characteristics   Climatic	
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: 2024-05-21



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	<b>Attention:</b> Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Installation   Cable	
wire arrangement	black 1, black 2, green-yellow
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
Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, silicone-free
Outer-diameter (jacket)	5,9 mm
Tolerance outer diameter (sheath)	±5%
Material wire insulation	PVC
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 mm <sup>2</sup>
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
Bending radius (dynamic)	10 x Outer diameter