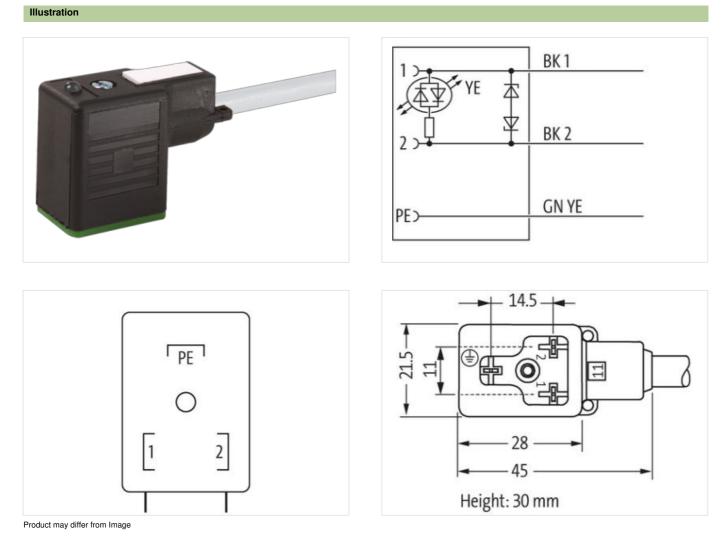


## MSUD valve plug BI-11mm 180° with cable

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

MSUD Form BI (11 mm) 24 V AC ±20% / DC ±25% LED and suppression PE opposite cable entry (180°) Attention: Contact carrier turned to 180°! 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





Cable length

5 m

The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-06-24



## Side 1

Family construction form         MSUD BI           Thread         M3           Maximal         PBT           Degree of protection (EN IEC 60599)         IP67           Commarcial data         PET           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-6.0         27279218           ECLASS-6.0         27279218           ECLASS-6.0         27279218           ECLASS-6.0         27090311           ECLASS-10         27060312           ECLASS-11.1         27060312           ECLASS-12.0         27060312           ECLASS-12.0         27060312           ECLASS-12.0         27060312           Deposed of up furging time max.         20 ms           Electrical data         Support           Upop out day furging max.         20 ms           Electrical data [Suppiv         24 V           Opporating voltage AC min.         19 V           Opparating voltage AC max.         28 N           Opparating voltage AC min.         19 V	Side 1	
Family construction form         MSUD BI           Thread         M3           Marinal         PBT           Commercial data         PBT           Commercial data         27270218           ECLASS 6.0         27279218           ECLASS 6.0         27279218           ECLASS 6.0         27279218           ECLASS 7.0         27279218           ECLASS 7.0         27279218           ECLASS 7.0         27260312           ECLASS 7.0         27060312           ECLASS 7.0         27060312           ECLASS 7.0         27060312           ECLASS 7.0         ECO01655           Euclerid data         SEO           Euclerid data         SEO           Euclerid data         SEO           Euclerid data         SEO           Operating voltage AC <t< td=""><td>ightening torque</td><td>0,4 Nm</td></t<>	ightening torque	0,4 Nm
Thead         M3           Atalerial         PBT           Atalerial         PBT           Commercial data         PBT           Scilland         27278218           CCLASS 7.0         27060312           COMMIT ANDER         80407           COMMIT ANDER         8047           COMMIT ANDER         80 V           COMMIT AN	Nounting method	inserted, screwed
Material         PET           Degres of protection (EN IEG 06269)         IP67           Commercial data         E           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-6.0         27279218           ECLASS-6.0         27096011           ECLASS-7.0         27096012           ECLASS-10.1         27060312           ECLASS-12.0         27060312           ECLASS-12.0         27060312           ECLASS-10.1         27060312           ECLASS-12.0         27060312           ECLASS-12.0         27060312           Eradsing mumber         8544280           STIN         404879220132           Readsing unt         1           Electrical data         20m           Drop out daty im max.         20 ms           Electrical data         20m           Drop out daty im max.         20 ms           Drop out daty out daty AC         24 V           Oparating voltage AC max.         28.8 V           Oparating voltage AC max.         28.8 V           Oparating voltage AC max.         18 V           Oparating voltage AC max.         18 V           Oparating voltage AC max.	amily construction form	MSUD BI
Degree of protection (EN IEC 60529)IP67Commercial dataECLASS 6.027279218ECLASS 7.027279218ECLASS 8.027279218ECLASS 8.027206031ECLASS 8.127060312ECLASS 8.127060312ECLASS 1.227060312ECLASS 1.22707978ELASS 1.22707978ELASS 1.22707978ELASS 1.22707978ELASS 1.22707978ELASS 1.22707978ELASS 1.22707978ELASS 2.22707978ELASS 2.22707978ELASS 2.22707978ELASS 2.22707978ELASS 2.22707978ELASS 2.22707978ELASS 2.22707978ELASS 2.22707978ELASS 2.22707978ELASS 2.2<	hread	M3
Commercial data         22739218           EQLASS 4.0         22739218           EQLASS 4.0         27279218           EQLASS 4.0         27279218           EQLASS 4.0         2706031           EQLASS 5.0         27060312           EQLASS 5.1.1         27060312           EQLASS 5.1.1         27060312           EQLASS 5.1.2.0         27060312           EQLASS 5.1.0         E0001825           Stadsmain Laffin umber         85444290           STM         404897020132           Packaging unit         1           Electrical data         Jacobase           Drap-out delay time max.         28           Packaging y unitap A.C         24 V           Opperating voltage D.C         24 V           Opperating voltage P.C         34 A           Darrent Operating Perovontatd max.         4 A	<i>I</i> aterial	PBT
ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27060311           ECLASS-8.0.1         27060312           ECLASS-10.1         27060312           ECLASS-11.1         27060312           ECLASS-12.0         27060312           ECLASS-12.0         ECO01855           ECLASS-11.1         27060312           ECLASS-12.0         ECO01855           ECLASS-11.1         27060312           Packaging unt         1           Electical datal         Ecutical datal           Electical datal         Support           Packaging unt         1           Electical datal         Support           Deparating voltage A.C min.         19.2 V	Degree of protection (EN IEC 60529)	IP67
ECLASS 7.027279218ECLASS 8.02726931ECLASS 8.027660311ECLASS 9.027660312ECLASS 9.10.127060312ECLASS 1.127060312ECLASS 1.2.027060312ECLASS 1.2.027060312ETM 5.0EC001855ED0185527060312Catastin lumber89444200STIN404887920132Packaging unit1Etercical dataEtercical dataEtercical data20 msEtercical data [Suppy20 msDop out delay lum max.20 msDop out delay lum max.20 msDop out delay lum max.20 msDop out delay lum max.8.8 VDoperating voltage AC min.19.2 VDoperating voltage AC min.19.2 VDoperating voltage AC min.19.2 VDoperating voltage DC min.18 VDoperating voltage DC min.18 VDoperating voltage DC min.18 VDoperating voltage DC min.19 VDoperating voltage DC min.19 VDoperating voltage DC max.30 VDuriert operating par contact max.4 ADuriert operating par contact max.4 ADuriert operating voltage max.55 VDate structuretVVoltage max.30 VMolticinal contact max.4 ADuriert operating par contact max.4 ADuriert operating par contact max.4 ADuriert operating voltage AC3Taret operating voltage AC0.8 k/V </td <td>Commercial data</td> <td></td>	Commercial data	
ECLASS-6.0         27279218           ECLASS-6.0         27060311           ECLASS-6.0         27060312           ECLASS-10.1         27060312           ECLASS-11.1         27060312           ECLASS-12.0         27060312           ECLASS-11.0         ECOTOSS-           sustoms taff number         85442290           STIN         404887820132           acadanging unit         1           Electrical data         20 ms           Electrical data Supply         Jones           Deparating voltage AC max.         28,8 V           Operating voltage AC max.         28,8 V           Operating voltage AC max.         28,8 V           Operating voltage DC max.         28,8 V           Operating voltage DC max.         30 V           Surrent Consumption max.         15 mA           Diagention voltage DC max.         58 V           Surrent Consumption max.         15 mA           Diagention voltage DC max.         30 V           Surrent Consumption max.         15 mA           Diagention         Issatus indication LED           Valide In Degree         3           Satus indication Protection degree         3           Satel Surge voltage DC GASU	ECLASS-6.0	27279218
ECLASS 9.0         27060311           ECLASS 1.0.1         27060312           ECLASS 1.1.1         27060312           ECLASS 1.1.0         27060312           ECLASS 1.1.0         EC00185           ECLASS 1.1.0         EC00185           ECLASS 1.1.0         EC00185           ECLASS 1.1.0         EC00185           ECO185         ECO185           ECO185         ECO185           Sustoms taff number         6544290           ECO161 data         ECO1985           Electrical data         ECO1985           Electrical data         Sustoms taff number           Electrical data         Superaling voltage AC           Electrical data [ Suppi)         Electrical data [ Suppi)           Dyperaling voltage AC max.         28.8 V           Operaling voltage AC max.         28.8 V           Operaling voltage DC max.         30.V           Electrical data [ max.         55 V           Electrical data [ max.         15 mA           Diagoetis         Electrical data           Electrical data indication LED         yow           Intellation [ Clectrical         Max           Mouting set         Max           Electrical clectrical         Max<	CLASS-7.0	27279218
ECLASS 9.0         27060311           ECLASS 1.0.1         27060312           ECLASS 1.1.1         27060312           ECLASS 1.1.0         27060312           ECLASS 1.1.0         EC00185           SUSTON STATI Number         EE44280           STIN         4048879220132           Packaging unit         1           Electrical data         E           Electrical data         20 ms           Electrical data [Suppy         E           Operating voltage AC         24 V           Operating voltage AC max.         28.8 V           Operating voltage DC max.         30 V           Diperating voltage DC max.         30 V           Diperating voltage DC max.         30 V           Direct consumption max.         15 mA           Diagositis         E           Statis indication LED         yelwo           Installation [Connection]         Yelwo           Additional condition protection degree         inserted.screwed           Voltage reak.         0.8 KV           Additional protection degree         0.8 KV           Additional protection degree         0.6 k.2 Unde           Vatering aroup (IEC 60664-1)         1.4 kack           Additional s	CLASS-8.0	27279218
ECLASS 10.1         27060312           ECLASS 12.0         27060312           ECLASS 12.0         27060312           ETM-5.0         EC001825           sustom staff number         8544290           STN         404857920132           Packaging unit         1           Etercical data            Drop out delay time max.         20 ms           Etercical data            Deporating voltage AC         24 V           Operating voltage AC max.         28.8 V           Deparating voltage AC max.         28.8 V           Deparating voltage DC max.         30 V           Durint operating voltage DC max.         55 V           Durint operating voltage DC max.         55 V           Durint operating voltage DC max.         55 V           Durint operating por contact max.         4 A           Durint operating por contact max.         15 mA           Diagnostics            Status indication LD         yelow           Installation   Connection         Yelow           Installation   Contection   Electrical         Maderial gray of tage           Additional suppreser         0 alge X-V           Paluke suporesport         Diode, 2-Diode <td></td> <td></td>		
ECLASS-11.1     27060312       ECLASS-12.0     27060312       ECLASS-12.0     ECO01655       Dastoms taiff number     85444290       STIN     404897220132       Packaging unit     1       Electrical data     20 ms       Electrical data     Status on summary on su		
ECLASS-12.0     27060312       ETIM-5.0     EC001665       astainons laff number     854429.0       GTIN     4048879220132       Packaiging unit     1       Electrical data     Ums       Electrical data     Ums       Electrical data     Suppy       Operating voltage AC     24 V       Operating voltage AC max.     28.8 V       Operating voltage AC max.     28.8 V       Operating voltage AC max.     28.8 V       Operating voltage DC max.     30 V       Out of pack voltage max.     55 V       Current consumption max.     15 mA       Dignostic     Imax       Validication LED     yellow       Installation   Connection     Ma       Polidution LEO     1       Voltion Longree     3       Nater Surge voltage     0.8 NV       Multing alty projector of lefectrical     Appresend       Polidution Leo to to to to to to to to degree     Imarting to		
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customs tariff number         85444290           GTIN         4048879220132           Packaging unit         1           Electrical data         20 ms           Electrical data   Supply         24 V           Operating voltage AC         24 V           Operating voltage AC max.         28.8 V           Operating voltage AC max.         28.9 V           Operating voltage AC max.         28.9 V           Operating voltage DC max.         30 V           Current operating voltage DC max.         30 V           Current operating pollage DC max.         55 V           Current operating pollage DC max.         30 V           Current operating pollage DC max.         15 mA           Dagoostic         Justow           Status indication LED         yellow           Installation   Connection         Installation   Connection           Poluce protection   Electrical         Justow           Additional condition protection degree         3           Polater auge voltage         0,8 kV           Material grouge (El 60664-1)         1      <		
GTIN     4048879220132       Packaging unit     1       Electrical data     20 ms       Electrical data   Supply     20 ms       Deprating 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 AC min.     28.8 V       Operating voltage DC     24 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 consumption max.     55 V       Current consumption max.     15 mA       Diagostics     Vellow       Installation   Connection     M3       Ovice protection   Electrical     M3       Additional condition protection degree     inserted, screwed       Pollution Degree     3       Pated surge voltage     0.8 kV       Material group (IEC 60664-1)     1       Additional suppressor     Diode, Z-Diode       Material group (IEC 60664-1)     1       Additional suppressor     Diode, Z-Diode       Material graup (IEC 60664-1)     1       Additional suppressor     Diode, Z-Diode       Material graup (IEC 60664-1)		
Packaging unit         1           Electrical data         20 ms           Electrical data   Supply         20 ms           Deprating voltage AC         24 V           Operating voltage AC max.         28.8 V           Operating voltage DC max.         28 V           Operating voltage DC max.         30 V           Current operating protonated max.         55 V           Current operating protonated max.         15 mA           Diagnostics         Situs indication LED           Status indication LED         yellow           Installation   Connection         M3           Device protection   Electrical         Situs indication Electrical           Additional condition protection degree         iserted, screwed           Pollution Degree         3           Rated surge voltage         0,8 kV           Maderial group (Elec 60664-1)         I           Additional suppressor         Diode, Z-Diode           Material group (Elec 60664-1)         I           Colaring of fitting         verzinkt           Colaring for scring         Verzinkt		
Electrical data         20 ms           Electrical data   Supply         24 V           Operating voltage AC         24 V           Operating voltage AC min.         19.2 V           Operating voltage AC min.         28.8 V           Operating voltage AC min.         19.2 V           Operating voltage AC min.         18 V           Operating voltage DC         24 V           Operating voltage DC min.         18 V           Operating voltage DC max.         30 V           Current operating per contact max.         4 A           Diagnostics         Status indication LED           Status indication LED         yellow           Installation I Connection         Installed Surge Voltage           Addition a condition protection degree         inserted, screwed           Polition Degree         3           Ratef augre Voltage         0.8 kV           Material group (IEC		
Drop-out delay time max.         20 ms           Electrical data   Supply         24 V           Operating voltage AC min.         19.2 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           Operating voltage DC max.         50 V           Current operating per contact max.         4 A           Current operating per contact max.         5 V           Current operating per contact max.         4 A           Current operating per contact max.         5 V           Status indication LED         yellow           Installation I Connection         sellow           Additional condition protection degree         inserted, screwed           Polition Degree         3 <t< td=""><td></td><td></td></t<>		
Electrical da   Supply           Dperating voltage AC         24 V           Operating voltage AC min.         19.2 V           Operating voltage AC max.         26.8 V           Operating voltage AC max.         26.8 V           Operating voltage DC         24 V           Operating voltage DC max.         30 V           Operating voltage DC max.         30 V           Operating voltage DC max.         30 V           Operating voltage DC max.         55 V           Operating voltage max.         55 V           Operating voltage max.         15 mA           Dageostics         Vellow           Status indication LED         yellow           Installation   Connection         Vellow           Additional condition protection degree         inserted, screwed           Olution protection geree         3           Rated surge voltage         0,8 kV           Additional group (IEC 60664-1)         1           Additional suppressor         Diode, 2-Diode           Mechanical data   Material gasket         Verzinkt           Coating of fitting         verzinkt           Coating of fitting         Verzinkt           Coating of fitting         Steel           Vaterial gasket		
Operating voltage AC         24 V           Operating voltage AC min.         19,2 V           Operating voltage AC max.         28,8 V           Operating voltage AC max.         28,8 V           Operating voltage DC         24 V           Operating voltage DC max.         30 V           Operating voltage DC max.         30 V           Operating voltage DC max.         30 V           Operating per contact max.         4 A           Current operating per contact max.         4 A           Dagnostics         Jon A           Status indication LED         yellow           Installation I Connection         Yellow           Polyce protection J Electrical         M3           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Pollution Degree         3           Pollution Degree         3           Pollution protection degree         inserted, screwed           Pollution protection degree         0.8 kV           Material group (IEC 60664-1)         I           Additional suppressor         Dide, Z-Diode           Mechanical data   Material data         Yerzinkt           Coating of fitting         verzinkt	)rop-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 max.         30 V           Operating voltage DC max.         30 V           Cut-off peak voltage max.         55 V           Cut-off peak voltage max.         55 V           Current consumption max.         15 mA           Diagnostics         Status indication LED           Voltage IC (Electrical)         yellow           Mounting set         M3           Device protection   Electrical         Additional condition protection degree           Voltage acting using acting per contage         0.8 kV           Material group (IEC 60664-1)         1           Additional condition protection degree         0.8 kV           Material group (IEC 60664-1)         1           Additional condition protection degree         0.8 kV           Material group (IEC 60664-1)         1           Additional group (IEC 60664-1)         1           Coating of fitting         verzinkt           Coating of fitting         verzinkt           Coating of fitting         verzinkt           Coating of fitting         Steel           Waterial gasket <td< td=""><td>Electrical data   Supply</td><td></td></td<>	Electrical data   Supply	
Depreating voltage AC max.     28.8 V       Operating voltage DC     24 V       Operating voltage DC     18 V       Operating voltage DC min.     18 V       Operating voltage DC max.     30 V       Studies DC max.     30 V       Current operating per contact max.     4 A       Current consumption max.     15 mA       Diagnostics     Vellow       Installation ICD     yellow       Installation ICD     yellow       Installation I Connection     M3       Device protection I Electrical     M3       Additional condition protection degree     inserted, screwed       Pollution Degree     3       Rated surge voltage     0.8 kV       Material group (IEC 60664-1)     I       I     I       Additional suppressor     Diode, Z-Diode       Mechanical data   Material data     Verzinkt       Coating locking     verzinkt       Coating locking     verzinkt       Coating of fitting     verzinkt       Coating of fitting     Verzinkt       Coating naterial     Steel       Material asket     PUR       Locking material     Steel       Material screw connection     Steel	Operating voltage AC	24 V
Operating voltage DC         24 V           Operating voltage DC min.         18 V           Operating voltage DC max.         30 V           Out-off peak voltage max.         55 V           Current operating per contact max.         4 A           Current onsumption max.         15 mA           Dagnostics         Js mA           Diagnostics         Vellow           Installation   Connection         Vellow           Mounting set         M3           Device protection   Electrical         Vellow           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         0,8 kV           Vaterial group (IEC 60664-1)         I           Additional suppressor         Diode, Z-Diode           Mechanical data   Material data         Verzinkt           Coating of fitting         verzinkt           Coating of fitting         verzinkt           Coating of fitting         Steel           Waterial greew connection         Steel	Operating voltage AC min.	19,2 V
Deperating voltage DC min.       18 V         Deperating voltage DC max.       30 V         Durent operating per contact max.       4 A         Current consumption max.       15 mA         Diagnostics       Status indication LED         Velow       Velow         Installation   Connection       Velow         Device protection   Electrical       M3         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 of fitting       verzinkt         Coating of fitting       Verzinkt         Coating agket       PUR         Locking material       Steel         Material screw connection       Steel	Operating voltage AC max.	28,8 V
Operating voltage DC max.         30 V           Cut-off peak voltage max.         55 V           Current operating per contact max.         4 A           Diagnostics         15 mA           Diagnostics         Vellow           Installation I Connection         yellow           Mounting set         M3           Device protection I Electrical         Vellow           Polition Degree         3           Paterial group (IEC 60664-1)         I           Additional suppressor         Diode, Z-Diode           Mechanical data   Material data         Verzinkt           Coating of fitting         verzinkt           Coating gasket         PUR           Locking material         Steel           Material gasket         PUR           Locking material         Steel	Dperating voltage DC	24 V
Cut-off peak voltage max.       55 V         Current operating per contact max.       4 A         Current consumption max.       15 mA         Diagnostics       status indication LED         Status indication LED       yellow         Installation   Connection       M3         Device protection   Electrical       M3         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 of fitting       verzinkt         Coating of fitting       Verzinkt         Coating of streig       Steel         Material gasket       PUR         Locking material       Steel         Material screw connection       Steel	Operating voltage DC min.	18 V
Current operating per contact max.       4 A         Current consumption max.       15 mA         Diagnostics       Status indication LED         Status indication LED       yellow         Installation   Connection       M3         Device protection   Electrical       M3         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 locking       verzinkt         Coating of fitting       verzinkt         Coating agasket       PUR         Locking material       Steel         Material screw connection       Steel         Material screw connection       Steel	Operating voltage DC max.	30 V
Current consumption max.       15 mA         Diagnostics       yellow         Installation I ED       yellow         Installation I Connection       M3         Device protection I Electrical       M3         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 locking       verzinkt         Coating of fitting       verzinkt         Color housing       black         Material gasket       PUR         _ocking material       Steel         Material screw connection       Steel	Sut-off peak voltage max.	55 V
Diagnostics           Status indication LED         yellow           Installation   Connection         M3           Device protection   Electrical         M3           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         0,8 kV           Mdatrial group (IEC 60664-1)         1           Additional data   Material data         Diode, Z-Diode           Mechanical data   Material data         verzinkt           Coating locking         verzinkt           Coating of fitting         verzinkt           Coating agsket         PUR           cocking material         Steel           Material screw connection         Steel	Current operating per contact max.	4 A
Status indication LED       yellow         Installation   Connection       M3         Device protection   Electrical       inserted, screwed         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 locking       verzinkt         Coating of fitting       verzinkt         Coating agsket       PUR         cocking material       Steel         Material screw connection       Steel	Current consumption max.	15 mA
Installation   Connection     M3       Device protection   Electrical     M3       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 locking     verzinkt       Coating of fitting     verzinkt       Color housing     black       Material gasket     PUR       Locking material     Steel       Material screw connection     Steel	Diagnostics	
Mounting set         M3           Device protection   Electrical         inserted, screwed           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 locking         verzinkt           Coating of fitting         verzinkt           Color housing         black           Material gasket         PUR           Locking material         Steel           Material screw connection         Steel	Status indication LED	yellow
Device protection   Electrical         Additional condition protection degree       inserted, screwed         Pollution Degree       3         Pated surge voltage       0,8 kV         Material group (IEC 60664-1)       1         Additional suppressor       Diode, Z-Diode         Mechanical data   Material data       verzinkt         Coating locking       verzinkt         Coating of fitting       verzinkt         Color housing       black         Material gasket       PUR         cocking material       Steel         Material screw connection       Steel	Installation   Connection	
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 locking       verzinkt         Coating of fitting       verzinkt         Color housing       black         Material gasket       PUR         cocking material       Steel         Material screw connection       Steel	Aounting 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       Verzinkt         Coating locking       verzinkt         Coating of fitting       verzinkt         Color housing       black         Material gasket       PUR         cocking material       Steel         Material screw connection       Steel	Device protection   Electrical	
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 locking       verzinkt         Coating of fitting       verzinkt         Color housing       black         Material gasket       PUR         Locking material       Steel         Material screw connection       Steel	Additional condition protection degree	inserted, screwed
Rated surge voltage       0,8 kV         Material group (IEC 60664-1)       I         Additional suppressor       Diode, Z-Diode         Mechanical data   Material data       verzinkt         Coating locking       verzinkt         Coating of fitting       verzinkt         Color housing       black         Material gasket       PUR         _ocking material       Steel         Material screw connection       Steel		3
Material group (IEC 60664-1)       I         Additional suppressor       Diode, Z-Diode         Mechanical data   Material data       Verzinkt         Coating locking       verzinkt         Coating of fitting       verzinkt         Color housing       black         Material gasket       PUR         cocking material       Steel         Material screw connection       Steel		0,8 kV
Additional suppressor       Diode, Z-Diode         Mechanical data   Material data       verzinkt         Coating locking       verzinkt         Coating of fitting       verzinkt         Color housing       black         Material gasket       PUR         Locking material       Steel         Material screw connection       Steel		
Mechanical data   Material data         Coating locking       verzinkt         Coating of fitting       verzinkt         Color housing       black         Material gasket       PUR         Locking material       Steel         Material screw connection       Steel		
Coating locking       verzinkt         Coating of fitting       verzinkt         Color housing       black         Color housing       black         Material gasket       PUR         Locking material       Steel         Material screw connection       Steel         Mechanical data   Mounting data	Additional suppressor	Diode, Z-Diode
Coating of fitting     verzinkt       Color housing     black       Material gasket     PUR       Locking material     Steel       Material screw connection     Steel		Diode, Z-Diode
Color housing     black       Material gasket     PUR       Locking material     Steel       Material screw connection     Steel	Mechanical data   Material data	
Material gasket     PUR       Locking material     Steel       Material screw connection     Steel       Mechanical data   Mounting data     Steel	Mechanical data   Material data	verzinkt
Locking material     Steel       Material screw connection     Steel       Mechanical data   Mounting data     Steel	Mechanical data   Material data Coating locking Coating of fitting	verzinkt verzinkt
Vaterial screw connection Steel Mechanical data   Mounting data	Mechanical data   Material data Coating locking Coating of fitting Color housing	verzinkt verzinkt black
Mechanical data   Mounting data	Mechanical data   Material data Coating locking Coating of fitting Color housing Material gasket	verzinkt verzinkt black PUR
	Mechanical data   Material data Coating locking Coating of fitting Color housing Material gasket Locking material	verzinkt verzinkt black PUR Steel
viounting method Inserted, screwed	Mechanical data   Material data Coating locking Coating of fitting Color housing Material gasket Locking material Material screw connection	verzinkt verzinkt black PUR Steel
Environmental characteristics   Climatic	Mechanical data   Material data Coating locking Coating of fitting Color housing Material gasket Locking material Material screw connection Mechanical data   Mounting data	verzinkt verzinkt black PUR Steel Steel

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Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
Important installation notes	
Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Note on bending radius	Attention: 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	256
Cable Type	5
Printing color of wire insulation	white (isolation black)
Jacket Color	gray
Type of Certificate	cURus
Amount stranding	1
Stranding	3 wires twisted
wire arrangement	black 1, black 2, green-yellow
Cable weigth	48,4 g/m
Material jacket	PUR
Shore hardness jacket	58 ± 3 Shore D
Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Outer-diameter (jacket)	5,2 mm
Tolerance outer diameter (sheath)	±5%
Material wire insulation	PP
Amount wires	3
Outer diameter insulation	1,7 mm
Outer diameter tolerance core insulation	±5%
Shore hardness wire insulation	74 ± 3 Shore D
Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Printing color of wire insulation	white (isolation black)
Amount strands (wire)	42
Diameter of single wires	0,15 mm
Conductor crosssection (wire)	0,75 mm <sup>2</sup>
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	strand class 6
Nominal voltage AC max.	300 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	12 A
Electrical resistance line constant wire	26 Ω/km @ 20 °C
AC withstand voltage (wire - wire)	2,5 kV @ 60 s
Power frequency withstand voltage (wire - jacket)	2,5 kV @ 60 s
Min. operating temperature (static)	-40 °C
Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
Operating temperature min. (dynamic)	-25 °C
Operating temperature max. (dynamic)	80 °C / 90 °C @ 10000 h Operation
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
No. of bending cycles (C-track)	10 Mio. @ 25 °C

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Travel speed (C-track)	3,3 m/s @ 25 °C
No. of torsion cycles	1 Mio.
Torsion stress	± 360 °/m
Torsion speed	35 cycles/min

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