

## M12 male 0° A-cod. / MSUD valve plug B-10mm

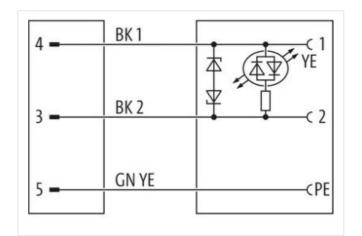
PUR 3x0.75 ye UL/CSA+drag ch. 3m

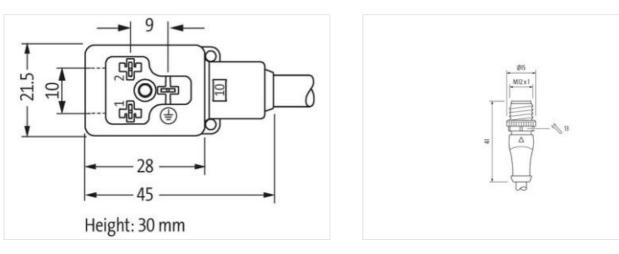
Form B (10 mm) – M12, male straight 24 V AC ±20% / DC ±25% LED and suppression Further cable lengths on request. Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request.

## Link to Product



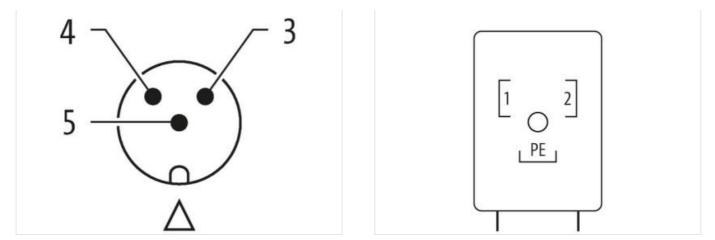






The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-05-07





Product may differ from Image



Cable length	3 m
Side 1	
Tightening torque	0,6 Nm
Family construction form	M12
Thread	M12 x 1
suitable for corrugated tube (internal Ø)	10 mm
Coding	A
No. of poles	3
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP67
Side 2	
Tightening torque	0,4 Nm
Family construction form	MSUD B
Thread	M3
No. of poles	3
Degree of protection (EN IEC 60529)	IP67
Commercial data	
ECLASS-6.0	27279218
ECLASS-6.1	27279218
ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0	27060312
ECLASS-10.1	27060312
ECLASS-11.1	27060312
ECLASS-12.0	27060312
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879147972
Packaging unit	1
Electrical data	
Capacity CX	20 ms
Electrical data   Supply	

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Central gradings AC min.         19.2 V           Operating vallags AC max.         28.8 V           Operating vallags DC         24 V           Operating vallags DC min.         18 V           Operating vallags DC max.         50 V           Call-Of perk vallags provide max.         54 V           Diagnostic         30 V           Call-Of perk vallags provide max.         4 A           Descript vallags CE cold ML         Vallation ML           Additional Gradin protection (Bedrical         Vallation CE cold ML           Descript vallags MAR         0,8 kV           Matarial group (CE cold ML 1)         1           Additional Suppressor         2 (Odd Pariting           Descript vallags Maxed         Vallation Cold ML           Descript vallags MAR         Versitit           Cold Pariting Vallags AC (ML N)         1           Addition Cold ML         Versitit           Descript vallags MAR         Versitit           Cold Pariting Vallags AC (ML N)         1           Cold Pariting Vallags AC (ML N)         1           Cold Pariting Vallags AC (ML	Operating voltage AC	24 V
Operating voltage DC         24 V           Operating voltage DC max.         38 V           Carl of peak voltage max.         55 V           Carl of peak voltage max.         55 V           Status floated max.         4 A           Diagnostice         90 voltage           Status floated max.         4 A           Diagnostice         90 voltage           Backs protection floated max.         4 A           Addional condition protection degree         inserted. screwed           Rated surper voltage         0.8 kV           Material group (160 colds 1)         1           Addional suppressor         2. Diode           Mechanicat data (160 colds 1)         1           Addional suppressor         2. Diode           Material group (160 colds 1)         1           Addional suppressor         2. Diode           Material housing         Plasic           Looding screw costing         voltage decide colds 10           Cold housing         Plasic           <	Operating voltage AC min.	19,2 V
Operating voltage DC min.         18 V           Operating voltage DC min.         18 V           Operating voltage DC min.         55 V           Current operating per contact max.         4 A           Diagnostic            Exclusine indexion LED         yellow           Device protection   Electrical            Additional condition protection degree         inserted, screwed           Rated surge voltage inserted, screwed            Rated surge voltage inserted, screwed            Additional sporp (EC 6068-1)         I           Additional sporp (EC 6068-1)         I           Costing Cocking         Nckeled           Cooling Gover costing         Versited           Color for screwed         Inserted, screwed           Restancial data Mounting data         Versited           Mounting method         inserted, screwed           Extremental characteristics (Climatic         Climatic           Operating temperature max.         85 °C           Additional condition temperature range         depending on cable quality           Important Installation notes         Attention: Observe the pormiscial whom laying cables, as the P protection duas, as the P endection duas,	Operating voltage AC max.	28,8 V
Operating voltage DC max         80 V           Cat-off peak voltage max.         55 V           Cat-off peak voltage max.         55 V           Contrant operating per contact max.         4 A           Dispositie         Status indication LED           Status indication LED         yellow           Device protection [Electrical         Addition of odgree           Additional condition protection degree         0.8 V           Material group (EC 06064-1)         1           Additional suppressor         Z Diode           Mechanical data         Mechanical data           Coaling locking         Nickeled           Lacking acrew coaling         variation           Coaling locking         Nickeled           Lacking acrew coaling         variation           Coaling locking         Plaste           Coaling locking method         Inserted, sorewed           Environmethol characteristics I Climatic         Plaste           Coaling locking teremeture max.         8° C	Operating voltage DC	24 V
Cut of peak voltage max.     55 V       Current operating per cented max.     4 A       Design static     Status indication LED       Status indication LED     yellow       Device protection   Electrical     Additional condition protection degree       National condition protection degree     0.8 kV       Material group (EC 80664-1)     1       Additional condition protection degree     0.8 kV       Material group (EC 80664-1)     1       Costing locking     Nickled       Locking scrow costing     variatid       Costing locking     Nickled       Locking scrow costing     variatid       Material housing     Diasto       Locking material     Zinc die-casting       Material housing     Diasto       Locking material     Zinc die-casting       Material housing     Diasto       Locking material     Zinc die-casting       Material housing     Desto       Locking material     Zinc die-casting       Material housing     Desto       Locking radue     Si °C       Operating temperature min.     -25 °C       Operating temperature max.     85 °C       Additional condition temperature range     depending on cable quality       Important installation notes     Note on bording radue       N	Operating voltage DC min.	18 V
Cut of peak voltage max.     55 V       Current operating per cented max.     4 A       Design static     Status indication LED       Status indication LED     yellow       Device protection   Electrical     Additional condition protection degree       National condition protection degree     0.8 kV       Material group (EC 80664-1)     1       Additional condition protection degree     0.8 kV       Material group (EC 80664-1)     1       Costing locking     Nickled       Locking scrow costing     variatid       Costing locking     Nickled       Locking scrow costing     variatid       Material housing     Diasto       Locking material     Zinc die-casting       Material housing     Diasto       Locking material     Zinc die-casting       Material housing     Diasto       Locking material     Zinc die-casting       Material housing     Desto       Locking material     Zinc die-casting       Material housing     Desto       Locking radue     Si °C       Operating temperature min.     -25 °C       Operating temperature max.     85 °C       Additional condition temperature range     depending on cable quality       Important installation notes     Note on bording radue       N	Operating voltage DC max.	30 V
Current operating per contact max.         4 A           Disposition         Stable indication LED           Stable indication LED         yellow           Device protection   Electrical         Inserted, screwed           Addition problem of depresent inserted, screwed         Retard surge ventage           Material group (EE 60664-1)         1           Additional stuppressor         Z-Dicde           Mechanical data   Material data         Coaling locition           Coaling lociting         Nickeled           Locking screw coating         verzinkt           Coder housing         Data           Mechanical data   Material data         Coder coaling           Locking screw coating         verzinkt           Coder housing         Data           Material rousing         Plaste           Locking method         inserted, screwed           Environmental characteristics   Climatic         Operating repensive man.           Operating repensive max.         85 °C           Operating repensive max.         85 °C           Operating repensive max.         85 °C           Cofforming         Protect the connectors by suitable measures from mechanical loads, e.g., by the usage of cable loss.           Note on strain roliof         Protect the connectors by suitable measur		55 V
Status indication LED         yellow           Device protection [Electrical         inserted, screwed           Rated surge voltage         0.8 VV           Material group (IEC 6064-1)         1           Additional suppressor         2-Diode           Mechanical data [Material data            Coating looking         Nickelod           Locking screw coating         verzinkl           Coating looking         Diack           Material Inousing         Plastic           Locking method         inserted, screwed           Material Inousing         Plastic           Locking method         inserted, screwed           Environmental characteristics [ Climatic         Comparition protection representator range           Operating Imperature max.         65 °C           Coating utemporature range         depending on cable quality           Important Installation notes            Important Installation notes            Corronity            Protection Cobserve the permissible bending ratii when laying cables, as the IP protection class can be entolongered by sociable bending ratii when laying cables, as the IP protection class can be entolongered by sociable bending ratii when laying cables, as the IP protection class can be entolongered by sociable bending ratii when laying cables, as the IP protection class can be		4 A
Device protection [Electrical           Addition condition protection degree         inserted, screwed           Rated surge voltage         0,8 kV           Material group (EC 0004+1)         I           Additional suppressor         Z-Diode           Mechanical data   Material data         Control           Costing locking         Nokeled           Locking screw coaling         verzinit           Codin locking material         Zine cide-casting           Metarial toxing material         Zine cide-casting           Metarial toxing material         Zine cide-casting           Metarial toxing temperature min.         25 °C           Operating temperature min.         25 °C           Operating temperature max.         85 °C           Operating temperature max.         85 °C           Operatin installation notes         Note on strain rolled           Note on strain rolled         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable lies.           Additional condition temperature max.         Additional conditig radii when laying cables, as the IP protection class can be endargered by excessive bending forces.           Contormity         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable lies.           Additonal condition temperature max.         036 <td>Diagnostics</td> <td></td>	Diagnostics	
Additional condition protection degree         inserted. screwed           Rated surge voltage         0.8 kV           Material group (16: 60:664-1)         1           Additional suppressor         2 Diode           Mechnical data   Material data            Coating locking         Nickeed           Locking screw coating         varzinkt           Color bousing         Bate           Locking meterial         Zine die-casting           Material housing         Plastic           Locking material         Zine die-casting           Material housing         Inserted. screwed           Environmental characteristics   Climatic         Environmental characteristics   Climatic           Operating temperature main.         25 °C           Operating temperature main.         25 °C           Additional condition temperature max         85 °C           Additional condition temperature max         85 °C           Note on stain rollel         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable loss.           Atternitor: Observe the permissible bending forces.         Contermity           Product standard         DIN EN 61076-8-101 (M12), DIN EN 175301-803 (MSUD)           Installation 1 Cable         Cable Type           Printing c	Status indication LED	yellow
Rated surge voltage     0.8 kV       Material group (EC 6064-1)     1       Additional suppressor     Z-Diode       Mechanical data   Material data     Costing locking       Nickeled     Locking sorew costing       Locking sorew costing     verzinkt       Coding material     Zinc dire-asting       Mechanical data   Mounting data     Material housing       Mechanical data   Mounting data     Material housing       Mechanical data   Mounting data     Material housing       Mounting mathed     inserted, screwed       Environmental characteristics   Climatic     Operating temperature max.       Operating temperature max.     BS °C       Additional condition temperature range     depending on cable quality       Important installation notes     Note on stain relief       Note on stain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tes.       Note on stain relief     DIN EN 61076-2-101 (M12), DIN EN 175501-803 (MSUD)       Installion Cable     Cable identification       Cable identification     036       Cable Identification     036       Cable Identification     036       Cable Identification     036       Cable View insultation     white (solation black)       Jacket Color     yellow       Type of Certificate <td>Device protection   Electrical</td> <td></td>	Device protection   Electrical	
Material group (IEC 60684-1)       I         Additional suppressor       Z-Diode         Mechanical data   Material data       Casting locking         Nickeled       Locking screw coaling         Locking screw coaling       verzinki         Color housing       black         Material housing       Plastic         Locking material       Zinc die-casting         Mechanical data   Mounting data       Inserted, screwed         Environmental characteristics   Climatic       Operating temperature max.         Operating temperature max.       85 °C         Additional condition temperature max.       85 °C         Additional condition temperature max.       85 °C         Note on strain relief       Protect the connectors by suitable measures from mochanical loads, e.g. by the usage of cable lase.         Note on strain relief       Protect the connectors by suitable measures from mochanical loads, e.g. by the usage of cable lase.         Attention: Observe the permissible bencing radii when laying cables, as the IP protection class can be and and gored by successor bencing forces.         Conformity       Product standard         Protoct standard       DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)         Installation (Cable       Quelow         Type of Certificate       QLPus         Aftention       <	Additional condition protection degree	inserted, screwed
Additional suppressor       2-Diode         Mechanical data   Material data          Coating locking       Nickeled         Locking serve coating       verzinkt         Color housing       black         Material housing       Plastic         Locking method       inserted, screwed         Environmental characteristics   Climatic       Operating temperature max.         Operating temperature max.       85 °C         Additional condition temperature remed       Environmental characteristics   Climatic         Important installation notes       Meterition: Observe the permissible bending radii when laying cables, as the IP protection class can be ending proces.         Conformity       Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable letes.         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be ending proces.         Calle dentification       036         Cable dentification       036         Cable dentification       036         Cable dentification       036	Rated surge voltage	0,8 kV
Mechanical data   Material data           Coating looking         Nickeled           Looking screw coating         verzinkt           Color housing         Block           Material housing         Plastic           Looking material         Zinc die-casting           Mechanical data   Mounting method         inserted, screwed           Environmental characteristics   Climatic         Operating temporature min.           -25 °C         Additional contino temperature range           depending temporature min.         -25 °C           Additional contino 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 tiles.           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tiles.           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tiles.           Note on strain relief         DIN EN 1076-2-101 (M12), DIN EN 175301-803 (MSUD)           Installation         036           Cable identification         036           Cable identification         036           Cable identification         where stwistatd           wire arangeme	Material group (IEC 60664-1)	1
Coating locking         Nickeled           Locking screw coating         verzinkt           Color housing         black           Material housing         Plasic           Locking material         Zino die-casting           Metrial housing         Plasic           Mounting methed         inserted, screwed           Environmenial characteristics [Climatic         Operating temperature max.           Operating temperature max.         65 °C           Additional condition temperature range         depending on cable quality           Important installation notes         Note on stain relief           Note on stain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable files.           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.           Conformity         Product standard           Product standard         DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)           Installation [Cable         Gable frype           Cable frype         3           Printing color of wire insulation         white (isolation black)           Jacket Color         yellow           Type of cortificate         CURUs           Anounut stranding	Additional suppressor	Z-Diode
Locking screw coating         verzinkt           Color housing         black           Material housing         Plastic           Locking matchal         Zinc die-casting           Mechanical data   Mounting data         Inserted, screwed           Environmental characteristics   Climatic         Operating temperature min.         -25 °C           Operating temperature max.         85 °C         Additional condition temperature may.         85 °C           Additional condition temperature may.         85 °C         Additional condition temperature may.         85 °C           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Conformity         Intertion:: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Contormity         Intertion:: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Cable trype         3           Product standard         DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)           Installation   Gable         Cable topic           Cable torype         3           Printin	Mechanical data   Material data	
Color housing         black           Material housing         Plastic           Locking material         Zinc die-casting           Mechanical data   Mounting data         inserted, screwed           Environmental characteristics   Climatic         Operating temperature min.         -25 °C           Operating temperature max.         85 °C         Additional condition temperature range         depending on cable quality           Important Installation notes         Material Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ites.           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ites.           Note on bending radius         Attention: Observe the permissible bending radii when laying cables, as the IP protection dass can be ending orders.           Conformity         Product standard         DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)           Installation   Cable         Cable rigpe         3           Printing color of wire insulation         white (isolation black)         Jacket Color           Type of Catificate         cuHus         Amount stranding         I           Stranding         3 wires twisted         Mires twisted         Mires twisted           write arrangement         black 2, green-yellow         Traversing d	Coating locking	Nickeled
Color housing         black           Material housing         Plastic           Locking material         Zinc die-casting           Mechanical data   Mounting data         inserted, screwed           Environmental characteristics   Climatic         Operating temperature min.         -25 °C           Operating temperature max.         85 °C         Additional condition temperature range         depending on cable quality           Important Installation notes         Material Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ites.           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ites.           Note on bending radius         Attention: Observe the permissible bending radii when laying cables, as the IP protection dass can be ending orders.           Conformity         Product standard         DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)           Installation   Cable         Cable rigpe         3           Printing color of wire insulation         white (isolation black)         Jacket Color           Type of Catificate         cuHus         Amount stranding         I           Stranding         3 wires twisted         Mires twisted         Mires twisted           write arrangement         black 2, green-yellow         Traversing d		
Material housing         Plastic           Locking material         Zinc die-casting           Mechanical data   Mounting data         Inserted, screwed           Environmental characteristics   Climatic         Operating temperature min.         -25 °C           Operating temperature max.         85 °C         Additional condition temperature range         depending on cable quality           Important Installation notes         Inserted, screwed         Inserted, screwed           Note on strain relief         Protect the connectors by suitable measures from mechanical bads, 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.           Conformity         Installation         DiN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)           Installation [ Cable         Installation [ Cable         Installation [ Cable]           Cable identification         036         Installation [ Cable]         Installation [ Salaton black]           Type of Certificate         cURus         Installation         Instere strained           View or strainding         1         Stranding         1           Mistanding         3 wires twisted         Iwires twisted         Iwires transpresent black 1, black 2, green-yellow           Taversing		black
Locking material         Zinc die-casting           Mechanical data   Mounting data         Inserted, screwed           Environmental characteristics   Climatic         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 strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Conformity         The connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Product standard         DIN EN 61076-2-101 (M12). DIN EN 175301-803 (MSUD)           Installation   Cable         Cable identification           Gable identification         036           Cable identification         036           Cable identification         036           Cable identification         040           Type of Cartificate         cJRus           Amount stranding         1           Stranding         3 wires twisted           Write insulation         10 m @ 25 °C   horizontal           Gable weight         56,1 g/m           Material jacket		
Mechanical data   Mounting data           Mounting method         inserted, screwed           Environmental characteristics   Climatic         Operating temperature min.         -25 °C           Operating temperature max.         85 °C         Additional condition temperature may         depending on cable quality           Important installation notes         Important installation notes         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 strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           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 ending forces.           Conformity         Important the force-2-101 (M12), DIN EN 175301-803 (MSUD)           Installation   Cable         Observe the permissible bending radii wine laying cables, as the IP protection class can be ending forces.           Cable identification         036         Observe the permissible force and the protection class can be ending forces.           Type of Certificate         cUPus         Amount stranding         1           Streanding         3 wires twisted	¥	
Environmental characteristics   Climatic           Operating temperature min.         -25 °C           Operating temperature max.         85 °C           Additional condition temperature range         depending on cable quality           Important installation notes         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           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.           Conformity         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Installation   Cable         UN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)           Installation   Cable         Cable tiget           Cable Type         3           Printing color of wire insulation         while (isolation black)           Jacket Color         yellow           Type of Certificate         cURus           Amount stranding         1           Stranding         3 wires twisted           wire arrangement         black 1, black 2, green-yellow           Traversing distance (C-track)         10 m@ 25 °C   horizontal           Cable weigth <td><u> </u></td> <td></td>	<u> </u>	
Operating temperature min.         -25 °C           Operating temperature max.         85 °C           Additional condition temperature range         depending on cable quality           Important installation notes         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable fies.           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable fies.           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.           Conformity         Product standard         DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)           Installation   Cable         Cable identification         036           Cable identification         036         Cable identification           Ogé Certificate         cURus         Amount stranding           Amount stranding         1         Stranding         3 wires twisted           wire arrangement         black 1, black 2, green-yellow         Traversing distance (C-track)         10 m @ 25 °C   horizontal           Cable weight         56, 1 g/m         Material jacket         PUR         Shore A         Freedom from ingredients (jacket)         59.9 mm           Chore rise stacket         90 ± 5 Shore A         Freedom from ingredients (jacket)	Mounting method	inserted, screwed
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 fies.           Note on bending radius         Attention: Observe the permissible bending radiu when laying cables, as the IP protection class can be endangered by excessive bending forces.           Conformity         Product standard           Product standard         DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)           Installation   Cable         Cable identification           Cable identification         036           Cable Type         3           Printing color of wire insulation         white (isolation black)           Jacket Color         yellow           Type of Cartificate         cURus           Amount stranding         1           Stranding         3 wires twisted           wire arrangement         black 1, black 2, green-yellow           Traversing distance (C-track)         10 m @ 25 °C   horizontal           Cable weigth         56,1 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)	Environmental characteristics   Climatic	
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 fies.           Note on bending radius         Attention: Observe the permissible bending radiu when laying cables, as the IP protection class can be endangered by excessive bending forces.           Conformity         Product standard           Product standard         DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)           Installation   Cable         Cable identification           Cable identification         036           Cable Type         3           Printing color of wire insulation         white (isolation black)           Jacket Color         yellow           Type of Cartificate         cURus           Amount stranding         1           Stranding         3 wires twisted           wire arrangement         black 1, black 2, green-yellow           Traversing distance (C-track)         10 m @ 25 °C   horizontal           Cable weigth         56,1 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)	Operating temperature min	-25 °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.         Conformity       Product standard         Product standard       DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)         Installation   Cable       Cable identification         Cable Type       3         Printing color of wire insulation       white (isolation black)         Jacket Color       yellow         Type of Certificate       cURus         Amount stranding       1         Stranding       3 wires twisted         wire arrangement       black 1, black 2, green-yellow         Traversing distance (C-track)       10 m @ 25 °C   horizontal         Cable weigth       56,1 g/m         Material jacket       PUR         Shore hardness jacket       PUR         Freedom from ingredients (jacket)       lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         Outer-diameter (jacket)       5.9 mm         Tolerance outer diameter (sheath)       ±5 % <td></td> <td></td>		
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.           Conformity         Product standard           Product standard         DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)           Installation   Cable         Cable identification           Cable identification         036           Cable Type         3           Printing color of wire insulation         white (isolation black)           Jacket Color         yellow           Type of Certificate         cURus           Amount stranding         1           Stranding         3 wires twisted           wire arrangement         black 1, black 2, green-yellow           Traversing distance (C-track)         10 m @ 25 °C   horizontal           Cable weigth         56, 1 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         5.9 m           Tolerance outer diameter (s		
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Product standardDIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)Installation   CableCable identification036Cable Type3Printing color of wire insulationwhite (isolation black)Jacket ColoryellowType of CertificatecURusAmount stranding1Stranding3 wires twistedwire arrangementblack 1, black 2, green-yellowTraversing distance (C-track)10 m @ 25 °C   horizontalCable weigth56,1 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-freeOuter-diameter (jacket)5,9 mmTolerance outer diameter (sheath)± 5 %	Additional condition temperature range Important installation notes	depending on cable quality
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wire arrangementblack 1, black 2, green-yellowTraversing distance (C-track)10 m @ 25 °C   horizontalCable weigth56,1 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)5,9 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPP	Additional condition temperature range         Important installation notes         Note on strain relief         Note on bending radius         Conformity         Product standard         Installation   Cable         Cable identification         Cable Type         Printing color of wire insulation         Jacket Color         Type of Certificate	depending on cable quality         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.         DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)         036         3         white (isolation black)         yellow
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Shore hardness jacket     90 ± 5 Shore A       Freedom from ingredients (jacket)     lead-free, cadmium-free, CFC-free, halogen-free, silicone-free       Outer-diameter (jacket)     5,9 mm       Tolerance outer diameter (sheath)     ± 5 %       Material wire insulation     PP	Additional condition temperature range         Important installation notes         Note on strain relief         Note on bending radius         Conformity         Product standard         Installation   Cable         Cable identification         Cable Type         Printing color of wire insulation         Jacket Color         Type of Certificate         Amount stranding         Stranding         wire arrangement         Traversing distance (C-track)	depending on cable quality         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.         DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)         036         3         white (isolation black)         yellow         cURus         1         3 wires twisted         black 1, black 2, green-yellow         10 m @ 25 °C   horizontal
Freedom from ingredients (jacket)     lead-free, cadmium-free, CFC-free, halogen-free       Outer-diameter (jacket)     5,9 mm       Tolerance outer diameter (sheath)     ± 5 %       Material wire insulation     PP	Additional condition temperature range         Important installation notes         Note on strain relief         Note on bending radius         Conformity         Product standard         Installation   Cable         Cable identification         Cable Type         Printing color of wire insulation         Jacket Color         Type of Certificate         Amount stranding         Stranding         wire arrangement         Traversing distance (C-track)         Cable weigth	depending on cable quality         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.         DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)         036         3         white (isolation black)         yellow         cURus         1         3 wires twisted         black 1, black 2, green-yellow         10 m @ 25 °C   horizontal         56,1 g/m
Outer-diameter (jacket)     5,9 mm       Tolerance outer diameter (sheath)     ± 5 %       Material wire insulation     PP	Additional condition temperature range         Important installation notes         Note on strain relief         Note on bending radius         Conformity         Product standard         Installation   Cable         Cable identification         Cable Type         Printing color of wire insulation         Jacket Color         Type of Certificate         Amount stranding         Stranding         wire arrangement         Traversing distance (C-track)         Cable weigth         Material jacket	depending on cable quality         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.         DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)         036         3         white (isolation black)         yellow         cURus         1         3 wires twisted         black 1, black 2, green-yellow         10 m @ 25 °C   horizontal         56,1 g/m         PUR
Tolerance outer diameter (sheath)     ± 5 %       Material wire insulation     PP	Additional condition temperature range         Important installation notes         Note on strain relief         Note on bending radius         Conformity         Product standard         Installation   Cable         Cable identification         Cable Type         Printing color of wire insulation         Jacket Color         Type of Certificate         Amount stranding         Stranding         wire arrangement         Traversing distance (C-track)         Cable weigth         Material jacket         Shore hardness jacket	depending on cable quality         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.         DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)         036         3         white (isolation black)         yellow         cURus         1         3 wires twisted         black 1, black 2, green-yellow         10 m @ 25 °C   horizontal         56,1 g/m         PUR         90 ± 5 Shore A
Material wire insulation PP	Additional condition temperature range         Important installation notes         Note on strain relief         Note on bending radius         Conformity         Product standard         Installation   Cable         Cable identification         Cable identification         Cable Type         Printing color of wire insulation         Jacket Color         Type of Certificate         Amount stranding         Stranding         wire arrangement         Traversing distance (C-track)         Cable weigth         Material jacket         Shore hardness jacket         Freedom from ingredients (jacket)	depending on cable quality         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.         DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)         036         3         white (isolation black)         yellow         cURus         1         3 wires twisted         black 1, black 2, green-yellow         10 m @ 25 °C   horizontal         56,1 g/m         PUR         90 ± 5 Shore A
	Additional condition temperature range         Important installation notes         Note on strain relief         Note on bending radius         Conformity         Product standard         Installation   Cable         Cable identification         Cable Type         Printing color of wire insulation         Jacket Color         Type of Certificate         Amount stranding         Stranding         wire arrangement         Traversing distance (C-track)         Cable weigth         Material jacket         Shore hardness jacket         Freedom from ingredients (jacket)         Outer-diameter (jacket)	depending on cable quality         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.         DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)         036         3         white (isolation black)         yellow         cURus         1         3 wires twisted         black 1, black 2, green-yellow         10 m @ 25 °C   horizontal         56,1 g/m         PUR         90 ± 5 Shore A         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         5,9 mm
Amount wires 3	Additional condition temperature range         Important installation notes         Note on strain relief         Note on bending radius         Conformity         Product standard         Installation   Cable         Cable identification         Cable Type         Printing color of wire insulation         Jacket Color         Type of Certificate         Amount stranding         Stranding         wire arrangement         Traversing distance (C-track)         Cable weigth         Material jacket         Shore hardness jacket         Freedom from ingredients (jacket)         Outer-diameter (jacket)         Tolerance outer diameter (sheath)	depending on cable quality         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.         DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)         036         3         white (isolation black)         yellow         cURus         1         3 wires twisted         black 1, black 2, green-yellow         10 m @ 25 °C   horizontal         56,1 g/m         PUR         90 ± 5 Shore A         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         5,9 mm         ± 5 %
	Additional condition temperature range         Important installation notes         Note on strain relief         Note on bending radius         Conformity         Product standard         Installation   Cable         Cable identification         Cable identification         Cable Type         Printing color of wire insulation         Jacket Color         Type of Certificate         Amount stranding         Stranding         wire arrangement         Traversing distance (C-track)         Cable weigth         Material jacket         Shore hardness jacket         Freedom from ingredients (jacket)         Outer-diameter (jacket)         Tolerance outer diameter (sheath)         Material wire insulation	depending on cable quality         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.         DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)         036         3         white (isolation black)         yellow         cURus         1         3 wires twisted         black 1, black 2, green-yellow         10 m @ 25 °C   horizontal         56,1 g/m         PUR         90 ± 5 Shore A         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         5,9 mm         ± 5 %         PP

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Outer diameter tolerance core insulation Shore hardness wire insulation Ingredient freeness wire insulation	±5%
Ingredient freeness wire insulation	70 ± 5 Shore D
5	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 mm²
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	strand class 6
Nominal voltage AC max.	300 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	12 A
Electrical resistance line constant wire	26 Ω/km @ 20 °C
AC withstand voltage (wire - wire)	2,5 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   UL 1581 § 1090   IEC 60332-2-2
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
Travel speed (C-track)	10 Mio. @ 25 °C
No. of torsion cycles	2 Mio.
Torsion stress	± 180 °/m
Torsion speed	35 cycles/min

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