

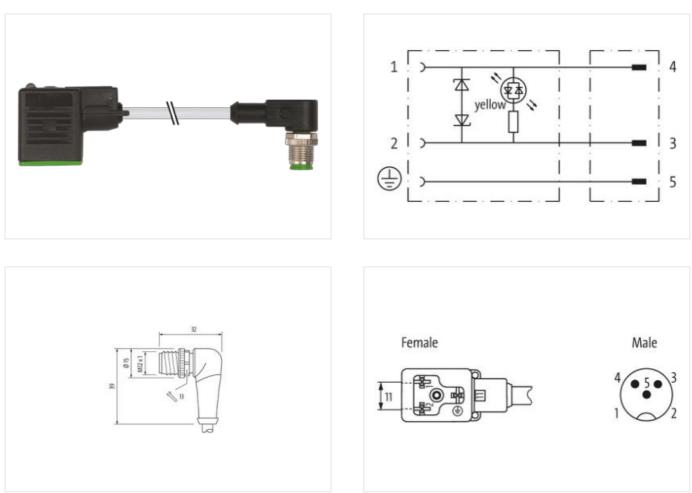
## M12 male 90° A-cod. / MSUD valve plug BI-11mm

PVC 3x0.75 gy 0.6m

MSUD Form BI (11 mm) – M12, male 90° 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









Product may differ from Image



Cable length	0,6 m
Side 1	
Tightening torque	0,4 Nm
Family construction form	MSUD BI
Thread	M3
No. of poles	3
Degree of protection (EN IEC 60529)	IP67
Side 2	
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
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	4048879148399
Packaging unit	1
Electrical data	
Capacity CX	20 ms
Electrical data   Supply	

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: 2024-05-09

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Operating voltage AC min.     19.2 V       Operating voltage AC max.     28.8 V       Operating voltage AC     24.4 V       Operating voltage AC max.     39.V       Operating voltage AC max.     55.V       Operating voltage AC max.     55.V       Carlot operating voltage AC max.     12 mA       Disposition     4.A       Current operating voltage AC max.     12 mA       Disposition     12 mA <tr< th=""><th>Operating voltage AC</th><th>24 V</th></tr<>	Operating voltage AC	24 V
Operating vertage DC     24 V       Operating vertage DC max.     30 V       Carl of peak vertage max.     55 V       Carl of peak vertage max.     4 A       Carrent operating vertage per constant max.     12 mA       Disposation     Vertage vertage per constant max.       Disposation     Operating temposation       Disposation     Pasito       Machinal movemp     Pasito       Mechanical dist in Marcial dista     Mechanical dista function (Carbonation movemp)       Operating temposation max.     25 °C	Operating voltage AC min.	19,2 V
Operating voltage DC min.     18 V       Operating voltage DC min.     30 V       Curl of park Voltage max.     55 V       Current consumption max.     12 mA       Diagnostics     Status indication LED       Status indication LED     yellow       Device protection protection oprotection o	Operating voltage AC max.	28,8 V
Operating on large DC max.     90 V       Carlot of peak voltage max.     55 V       Carlot operating per context max.     12 mA       Descreption     12 mA       Descreption     States indication LED       States indication LED     yellow       Device protection   Electrical     Additional condition protection degree       Additional condition protection degree     3       Reade surge voltage     0.8 kV       Mechanical data (Material data)     Mechanical data (Material data)       Color housing     black       Mechanical data (Material data)     Mechanical data (Material data)       Mechanical data (Material data)     depending on cable quality       Mounting method     inserted, screwed       Environmental characteristics   Climatic     Operating temperature max.       Operating temperature max.     25 °C	Operating voltage DC	24 V
Out of pask voltage max.   55 V     Current consumption max.   12 mA     Degroatics   Status indication LED     Status indication LED   yellow     Device protection Electricat      Additional condition protection degree   inserted, screwed     Palution Degree   3     React surge voltage   0.8 kV     Mechanical data [Material data   Color housing     Material housing   Plastic     Mechanical data [Mounting data   Inserted, screwed     Portaing lamperature min.   25 °C     Operating lamperature min.	Operating voltage DC min.	18 V
Current consumption max.     12 mA       Designedities     Status indication LED     yallow       Device protection   Electrical     Additional control order of degree     3       Rated surge voltage     0.8 kV     Mechanical data   Material data       Color housing     black     Mechanical data   Material data       Color housing     black     Mechanical data   Material data       Color housing     Platic     Mechanical data   Mounting data       Mechanical data   Mounting data     Mechanical data   Mounting data     Mechanical data   Mounting data       Mounting method     inserted, screwed     Color housing     Platic       Device protection reline transmitter range     depending on cable quality     Mechanical local (a local, e.g., by the usage of cable local local local local local, e.g., by the usage of cable local local and and relevent of the protection class can be on drain grand local loc	Operating voltage DC max.	30 V
Durant consumption max.     12 mA       Despoistics     Status indication LED       Status indication LED     yellow       Device protection [Electrical     Additional condition protection degree       Additional condition protection degree     3       Rated surge voltage     0.8 kV       Mechanical data   Material data     Color housing       Material housing     Data k       Metrical housing     Data k       Metrical housing     Plastic       Metrical housing     Plastic       Metrical housing     Plastic       Mounting method     inserted, screwed       Environmethal characteristics   Climatic     Operating temperature max.       Operating temperature max.     65 °C       Operating temperature max.     65 °C       Operating temperature max.     65 °C       Contromise     Material nonces       Note on strain relief     Portect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Note on thering radius     Afternor: Costerve the permissible benching radii when laying cables, as the IP protection class can be entoting radii when laying cables, as the IP protection class can be entoting radii when laying cables, as the IP protectio	Cut-off peak voltage max.	55 V
Diagnostics     Status indication LED     yellow       Device protection   Electrics]     isserted, screwed	Current operating per contact max.	4 A
Status indication LED     yellow       Device protection   Electrical     inserted, screwed       Additional condition protection degree     inserted, screwed       Oblitation Degree     3       Rated surge voltage     0.8 kV       Mechanical data   Meterial data     Color housing     Back       Material housing     Plastic     Mechanical data   Mounting data       Mounting method     inserted, screwed     Mechanical data   Mounting data       Coperating temperature min.     -25 °C     Coperating temperature max.     85 °C       Operating temperature max.     85 °C     Commit installation notes     Mechanical data line on temperature max.     85 °C       Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the uage of cable lines.       Contomity     Protect the connectors by suitable measures from mechanical loads, e.g. as the IP protection class can be endangered by excessive banding forces.       Cable Type     I       Protect thand     Din EN 61076 2 101 (M12); DIN EN 175301 403 (Vontilisteckor)       Installation ( Cable     Yep       Cable Type     I       Printing color of wire insulation     whitie (solation black)	Current consumption max.	12 mA
Device protection   Electrical       Additional condition protection degree     inserted, screwed       Pallution Degree     3       Rated surge voltage     0.8 kV       Mechanical data   Material data     Color housing     black       Mechanical data   Material data     Color housing     Dlack       Mounting method     inserted, screwed     Environmentia characteristics   Climatic       Environmentia characteristics   Climatic     Generating inserted, screwed     Environmentia characteristics   Climatic       Departing temperature max.     85 °C     Color housing radius     Attention: Cosenve the parmisetible bonding radii when laying cables, set he IP protection class can be endangered by excessive bending forces.     Color housing radiu when laying cables, set he IP protection class can be endangered by excessive bending forces.       Cable of hype     1     Note 1076 2-101 (M12); DIN EN 175301-803 (Ventil	Diagnostics	
Additional condition protection degree inserted, screwed   Politation Degree 3   Reted surge voltage 0,8 kV   Mechanical data [Material data    Color housing Plastic   Material housing Plastic   Mechanical data [Mounting data    Mechanical data [Mounting data Inserted, screwed   Environmental characteristics [ Climatic    Operating isemperature min. -25 °C   Operating isemperature max. 85 °C   Additional condition temperature range depending on cable quality   Important installation notes    Note on bending radius Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   Colormity    Product standard DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilstecker)   Insellion I Cable    Cable Type 1   Printing color of wire insulation white (solation black)   Jacket Color gray   Anount stranding 1   Printing color of wire insulation white (solation black)   Jacket Color gray   Anount stranding 3   Stranding 3 wires twisted   Wire arrangement Ed3	Status indication LED	yellow
Polition Degree     3       Rates surge voltage     0.8 kV       Mechanical data   Material data     Cork housing     black       Material housing     Plastic     Mechanical data   Mounting data       Mechanical data   Mounting data     Inserted. screwed     Environmental characteristics   Climatic       Operating temperature max.     85 °C     Additional condition temperature range     depending on cable quality       Important installation notes     Environmental characteristics   Climatic     Environmental characteristics   Climatic       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: Cboerve the permissible bending radiu when laying cables, as the IP protection class can be endergreed by excessive bending forces.       Conomity     Product standard     DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilstecker)       Installation   Cable     216     Cable dentification     216       Cable dentification     216     Cable dentification     3 wires twisted       Material jacket     94 of 53.8 g/m     Material jacket     PVC       Stranding     3 wires twisted     Si S %     Cable dentification     25 %	Device protection   Electrical	
Rated aurgo voltage     0.8 kV       Mechanical data   Material data     Editation       Color housing     black       Material housing     Plastic       Mechanical data   Mounting data     Inserted, screwed       Environmental characteristics   Climatic     Coperating imperature max.       Operating imperature max.     25 °C       Operating interparture max.     85 °C       Addition condition temperature range     depending on cable quality       Important installation notes     Note on stain role!       Note on stain role!     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tes.       Attention: Observe the permissible bending radiu when laying cables, as the IP protection class can be endangered by excessive bending forces.       Contomity     Note on stain role!       Product standard     DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilstocker)       Installion   Cable     Cable dendification       Cable dandification     216       Cable Type     1       Printing cobr of wire insulation     white (solation black)       Jacket Cohr     gray       Amount stranding     1       Stranding     3 wre	Additional condition protection degree	inserted, screwed
Mechanical data   Material data       Color housing     black       Material housing     Plastic       Mechanical data   Mounting data     inserted, screwed       Environmental characteristics   Climatic     inserted, screwed       Environmental characteristics   Climatic     25 ° C       Operating temperature min.     25 ° C       Additional condition temperature range     depending on cable quality       Important installation notes     85 ° C       Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable less.       Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable less.       Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable less.       Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable less.       Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable less.       Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the dister insultation       Installation     Din NE 01076-2-101 (M12); DIN N 175301-803 (Ventilistecker)       Cable identificatio	Pollution Degree	3
Color housing     black       Material housing     Plastic       Mechanical data [Mounting data     inserted, screwed       Environmental characteristics [Climatic     Coperating temperature max.     85 °C       Additional condition 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 tess.       Note on stain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tess.       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.       Contomity     Installation [Cable       Cable Type     1       Printing color of wire insulation     white (solation black)       Jacket Color     gray       Amount stranding     1       Stranding     3 wires twisted       wire arangement     black 1, black 2, green-yellow       Cable weight     63, 8 g/m       Tolerance outer diameter (sheath)     ± 5 %       Tolerance outer diameter (sheath)     ± 5 %       Material in	Rated surge voltage	0,8 kV
Color housing     black       Material housing     Plastic       Mechanical data [Mounting data     inserted, screwed       Environmental characteristics [Climatic     Coperating temperature max.     85 °C       Additional condition 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 tess.       Note on stain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tess.       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.       Contomity     Installation [Cable       Cable Type     1       Printing color of wire insulation     white (solation black)       Jacket Color     gray       Amount stranding     1       Stranding     3 wires twisted       wire arangement     black 1, black 2, green-yellow       Cable weight     63, 8 g/m       Tolerance outer diameter (sheath)     ± 5 %       Tolerance outer diameter (sheath)     ± 5 %       Material in	Mechanical data   Material data	
Material housing     Plastic       Mechanical data   Mounting data     inserted, screwed       Environmental characteristics   Climatic     Coperating temperature max.     25 °C       Operating temperature max.     85 °C     Additional condition temperature max.     85 °C       Additional condition temperature max.     85 °C     Additional condition 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 mechanical loads, e.g. by the usage of cable ties.     Note on strain relief       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 parmissible bending radii when laying cables, as the IP protection class can be endangeed by excessive bending forces.       Conformity     Installation (Cable       Product standard     DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilstecker)       Installation (Cable     216       Cable Type     1       Printing color of wire insulation     white (isolation black)       Jacket Color     gray       Amount stranding     3 </td <td></td> <td>black</td>		black
Mechanical data   Mounting data       Mounting method     inserted, screwed       Environmental characteristics   Climatic     Constraint terms       Operating temperature min.     -25 °C       Operating temperature max.     85 °C       Additional condition temperature max.     85 °C       Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tes.       Note on bending radius     Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be ending forces.       Conformity     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tes.       Attention:     Observe the permissible bending radii when laying cables, as the IP protection class can be ending forces.       Cable damification     DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilstecker)       Installation   Cable     Cable damification       Cable damification     216       Cable diventification     singerady       Stranding     1       Stranding     3 wres twisted </td <td></td> <td></td>		
Mounting method     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     Important installation notes       Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Nate 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 (Ventilstecker)       Installation   Cable     216       Cable identification     216       Cable identification     216       Cable identification     1       Stranding     1       Stranding     1       Stranding     3 wirse twisted       wire arrangement     black 1, black 2, green-yellow       Cable weigth     63,8 g/m       Material jacket     PVC       Shore hardness jacket     80 ± 5 Shore A	0	
Environmental characteristics   Climatic       Operating temperature min.     -25 °C       Operating temperature max.     85 °C       Additional condition temperature range     depending on cable quality       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.       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 (Ventilstecker)       Installation   Cable     216       Cable identification     216       Cable identification     216       Cable identification     316       Stranding     1       Stranding     3 wires twisted       wire arrangement     black 1, black 2, green-yellow       Cable weighh     63.8 g/m       Material jacket     PVC       Shore hardness jacket     80 °L Shore A       Freedom from ingredients (jacket)     42.5 %       Outer diameter (jacket)     5.9 mm       Tolera		insorted screwed
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.       Contomity        Product standard     DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilstecker)       Installation   Cable        Cable identification     216       Cable Type     1       Printing color of wire insulation     white (isolation black)       Jacket Color     gray       Armount stranding     1       Stranding     3 wires twisted       wire arrangement     black 1, black 2, green-yellow       Cable tweigh     63.8 g/m       Material jacket     PVC       Shore hardnese jacket     80 ± 5 Shore A       Freedom from ingredients (jacket)     63.9 g/m       Material wire insulation     9 VC		
Operating temperature max.     85 °C       Additional condition temperature range     depending on cable quality       Important installation notes     Mole 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.       Materiation:     Cable Type       Installation   Cable     Cable tight       Cable forpe     1       Printing color of wire insulation     216       Cable Type     1       Printing color of wire insulation     white (isolation black)       Jacket Color     gray       Amount stranding     1       Stranding     3 wires twisted       wire arrangement     black 1, black 2, green-yellow       Cable type     63.8 g/m       Material jacket     PVC       Shore hardness jacket     80 ± 5 Shore A       Freedom from ingredients (jacket)     1.5 %       Material wire insulation     PVC		
Additional condition temperature range     depending on cable quality       Important installation notes     Vote 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 radi when laying cables, as the IP protection class can be endangered by excessive bending torces.       Conformity     Product standard     DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilstecker)       Installation   Cable     Cable identification     216       Cable identification     216     Cable identification     gray       Amount stranding     1     Printing color of wire insulation     white (isolation black)       Jacket Color     gray     Amount stranding     1       Stranding     3 wires twisted     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.%     Material wire insulation     9.WC       Amount wires     3     CC-free, silicone-free     Coule-diameter (sheath)     ± 5 %       Shore hardness jacket     80 ± 5 Shore A     Stranding     Stranding<		
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 (Ventilstecker)       Installation   Cable     Cable frype       Cable forpe     1       Printing color of wire insulation     white (isolation black)       Jacket Color     gray       Amount stranding     1       Stranding     3 wires twisted       wire arrangement     black 1, black 2, green-yellow       Cable weigth     63.8 g/m       Material jacket     PVC       Shore hardness jacket1     80 ± 5 Shore A       Freedom from ingredients (jacket)     1ead-free, cadmium-free, CFC-free, silicone-free       Outer-diameter (idacket)     5.9 mm       Tolerance out (caket)     5.9 mm       Tolerance out (caket)     5.9 m       Tolerance out (caket)     5.9 m       Tolerance out (caket)     5.9 m		
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     DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilstecker)       Installation   Cable     Cable identification     216       Cable distribution     white (isolation black)     gray       Jacket Color     gray     gray       Amount stranding     1     Stranding     Stranding       Stranding     3 wires twisted     wire arrangement     black 1, black 2, green-yellow       Cable weigth     63.8 g/m     Store A     Freedom from ingredients (jacket)     lead-free, cadmium-free, CFC-free, silicone-free       Outer-diameter (jacket)     PVC     Store hardness jacket     80 ± 5 Shore A     Store Store A       Tolerance outer diameter (sheath)     ± 5 %     Material wire insulation     PVC       Amount wires     3     Outer diameter insulation     1.8 mm       Outer diameter insulation     1.8 mm     Outer diameter insulation     1.5 %       Shore hardness		depending on cable quality
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 (Ventilstecker)       Installation   Cable     Cable identification     216       Cable identification     White (isolation black)     Jacket Color     gray       Amount stranding     1     Stranding     3 wires twisted       wire arrangement     black 1, black 2, green-yellow     Cable 38 g/m       Cabler dow of the insulation     9 VC     Shore hardness     Stranding     5 Shore ha       Freedom from ingredients (jacket)     5.9 mm     Stranding     5 %     Material wire insulation     9 VC       Amount strain     5.9 mm     Conformulation     5 %     Material wire insulation     9 VC       Amount strain     5 %     Material wire insulation     1.8 mm     Could wire insulation     1.8 mm       Outer diameter tolerance core insulation     1.8 mm     Could wire insulation     1.8 mm     Could wire insulation     3.5 Shore hardness wire insulation	Important installation notes	
Note on behaving radius   endangered by excessive bending forces.     Conformity   Installation   DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilstecker)     Installation   Cable   Cable identification   216     Cable identification   216   Cable     Cable identification   216   Cable   Cable     Cable identification   216   Cable   Cable   Venton issuance     Jacket Color   gray   Amount stranding   1   Stranding   3 wires twisted     Wire arrangement   black 1, black 2, green-yellow   Cable weigth   63.8 g/m   Material jacket   PVC     Shore hardness jacket   80 ± 5 Shore A   Freedom from ingredients (jacket)   1ead-free, cadmium-free, CFC-free, silicone-free   Outer diameter (jacket)   5.9 m     Tolerance outer diameter (sheath)   ± 5 %   Material wrie in	Note on strain relief	
Product standardDIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilstecker)Installation   CableCable identification216Cable identification216Cable Type1Printing color of wire insulationwhite (isolation black)Jacket ColorgrayAmount stranding1Stranding3 wires twistedwire arrangementblack 1, black 2, green-yellowCable weigth63.8 g/mMaterial jacketPVCShore hardness jacket80 ± 5 Shore AFreedom from ingredients (jacket)15 %Material wire insulationPVCAmount wires3Outer diameter (sheath)± 5 %Material wire insulationPVCAmount wires3Outer diameter insulation1,8 mmOuter diameter insulation± 5 %Shore hardness wire insulation43 ± 5 Shore DMaterial properties wire insulation43 ± 5 Shore D	Note on bending radius	
Installation   CableCable identification216Cable Type1Printing color of wire insulationwhite (isolation black)Jacket ColorgrayAmount stranding1Stranding3 wires twistedwire arrangementblack 1, black 2, green-yellowCable weigth63,8 g/mMaterial jacketPVCShore hardness jacket80 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, silicone-freeOuter-diameter (jacket)5,9 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPVCAmount wires3Outer diameter tolerance core insulation1,8 mmOuter diameter tolerance core insulation43 ± 5 Shore DMaterial properties wire insulationgood machinability	Conformity	
Cable identification216Cable Type1Printing color of wire insulationwhite (isolation black)Jacket ColorgrayAmount stranding1Stranding3 wires twistedwire arrangementblack 1, black 2, green-yellowCable weigth63,8 g/mMaterial jacketPVCShore hardness jacket80 ± 5 Shore AFreedom from ingredients (jacket)1.9 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPVCMaterial wire insulation1,8 mmOuter diameter tolerance core insulation43 ± 5 Shore DMaterial properties wire insulationgood machinability	Product standard	DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilstecker)
Cable Type1Printing color of wire insulationwhite (isolation black)Jacket ColorgrayAmount stranding1Stranding3 wires twistedwire arrangementblack 1, black 2, green-yellowCable weigth63,8 g/mMaterial jacketPVCShore hardness jacket80 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, silicone-freeOuter-diameter (jacket)5,9 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPVCAmount wires3Outer diameter tolerance core insulation± 5 %Shore hardness wire insulation43 ± 5 Shore DMaterial properties wire insulationgood machinability	Installation   Cable	
Printing color of wire insulationwhite (isolation black)Jacket ColorgrayAmount stranding1Stranding3 wires twistedwire arrangementblack 1, black 2, green-yellowCable weigth63,8 g/mMaterial jacketPVCShore hardness jacket80 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, silicone-freeOuter-diameter (jacket)5,9 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPVCAmount wires3Outer diameter tolerance core insulation± 5 %Shore hardness wire insulation43 ± 5 Shore DMaterial properties wire insulationgood machinability	Cable identification	216
Printing color of wire insulationwhite (isolation black)Jacket ColorgrayAmount stranding1Stranding3 wires twistedwire arrangementblack 1, black 2, green-yellowCable weigth63,8 g/mMaterial jacketPVCShore hardness jacket80 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, silicone-freeOuter-diameter (jacket)5,9 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPVCAmount wires3Outer diameter tolerance core insulation± 5 %Shore hardness wire insulation43 ± 5 Shore DMaterial properties wire insulationgood machinability	Cable Type	1
Jacket ColorgrayAmount stranding1Stranding3 wires twistedwire arrangementblack 1, black 2, green-yellowCable weigth63,8 g/mMaterial jacketPVCShore hardness jacket80 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, silicone-freeOuter-diameter (jacket)5,9 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPVCAmount wires3Outer diameter tolerance core insulation± 5 %Shore hardness wire insulation43 ± 5 Shore DMaterial properties wire insulationgood machinability		white (isolation black)
Stranding3 wires twistedwire arrangementblack 1, black 2, green-yellowCable weigth63,8 g/mMaterial jacketPVCShore hardness jacket80 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, silicone-freeOuter-diameter (jacket)5,9 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPVCAmount wires3Outer diameter tolerance core insulation1,8 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation43 ± 5 Shore DMaterial properties wire insulationgood machinability	Jacket Color	gray
wire arrangementblack 1, black 2, green-yellowCable weigth63,8 g/mMaterial jacketPVCShore hardness jacket80 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, silicone-freeOuter-diameter (jacket)5,9 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPVCAmount wires3Outer diameter tolerance core insulation1,8 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation43 ± 5 Shore DMaterial properties wire insulationgood machinability	Amount stranding	1
Cable weigth63,8 g/mMaterial jacketPVCShore hardness jacket80 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, silicone-freeOuter-diameter (jacket)5,9 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPVCAmount wires3Outer diameter tolerance core insulation1,8 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation43 ± 5 Shore DMaterial properties wire insulationgood machinability	Stranding	3 wires twisted
Material jacketPVCShore hardness jacket80 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, silicone-freeOuter-diameter (jacket)5,9 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPVCAmount wires3Outer diameter insulation1,8 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation43 ± 5 Shore DMaterial properties wire insulationgood machinability	wire arrangement	black 1, black 2, green-yellow
Shore hardness jacket80 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, silicone-freeOuter-diameter (jacket)5,9 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPVCAmount wires3Outer diameter insulation1,8 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation43 ± 5 Shore DMaterial properties wire insulationgood machinability	Cable weigth	63,8 g/m
Freedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, silicone-freeOuter-diameter (jacket)5,9 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPVCAmount wires3Outer diameter insulation1,8 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation43 ± 5 Shore DMaterial properties wire insulationgood machinability	Material jacket	PVC
Outer-diameter (jacket)5,9 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPVCAmount wires3Outer diameter insulation1,8 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation43 ± 5 Shore DMaterial properties wire insulationgood machinability	Shore hardness jacket	80 ± 5 Shore A
Tolerance outer diameter (sheath)± 5 %Material wire insulationPVCAmount wires3Outer diameter insulation1,8 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation43 ± 5 Shore DMaterial properties wire insulationgood machinability	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, silicone-free
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	Outer-diameter (jacket)	5,9 mm
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	Tolerance outer diameter (sheath)	±5%
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	Material wire insulation	PVC
Outer diameter tolerance core insulation   ± 5 %     Shore hardness wire insulation   43 ± 5 Shore D     Material properties wire insulation   good machinability	Amount wires	3
Shore hardness wire insulation 43 ± 5 Shore D   Material properties wire insulation good machinability	Outer diameter insulation	1,8 mm
Material properties wire insulation good machinability	Outer diameter tolerance core insulation	±5%
	Shore hardness wire insulation	43 ± 5 Shore D
Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free	Material properties wire insulation	
	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, silicone-free

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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
	3 kV @ 60 s -30 °C
jacket)	-
jacket) Min. operating temperature (static)	-30 °C
jacket) Min. operating temperature (static) Max. operating temperature (fixed)	-30 °C 70 °C
jacket) Min. operating temperature (static) Max. operating temperature (fixed) Operating temperature min. (dynamic)	-30 °C 70 °C -5 °C
jacket) Min. operating temperature (static) Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature max. (dynamic)	-30 °C 70 °C -5 °C 70 °C
jacket) Min. operating temperature (static) Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature max. (dynamic) Flame resistance	-30 °C -30 °C -5 °C -5 °C 70 °C UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2
jacket) Min. operating temperature (static) Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature max. (dynamic) Flame resistance chemical resistance	-30 °C 70 °C -5 °C 70 °C UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2 Good, application-related testing
jacket) Min. operating temperature (static) Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature max. (dynamic) Flame resistance chemical resistance Gasoline resistance	-30 °C 70 °C -5 °C 70 °C UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2 Good, application-related testing Good, application-related testing

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