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Male

## M12 male 0° A-cod. / MSUD valve plug BI-11mm

PUR 3x0.75 gy UL/CSA+robot+drag ch. 1m

MSUD

Form BI (11 mm) - M12, male straight

24 V AC ±20% / DC ±25%

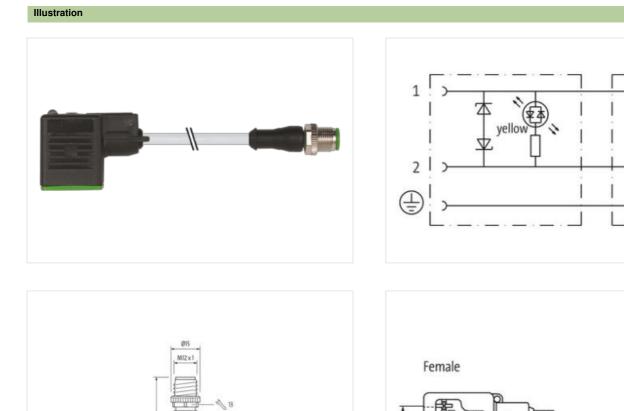
LED and suppression

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



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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: 2024-06-25 Murrelektronik ApS | Alexander Foss Gade 13, 1. | 9000 Aalborg | Fon +45 96 35 06 06 | Fax | shop@murrelektronik.dk | shop.murrelektronik.dk





Product may differ from Image



Cable length	1 m
Side 1	
Tightening torque	0,4 Nm
Family construction form	MSUD
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 $\emptyset$ )	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	4048879698702
Packaging unit	1
Electrical data	
Drop-out delay time max.	20 ms
Electrical data   Supply	

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Murrelektronik ApS | Alexander Foss Gade 13, 1. | 9000 Aalborg | Fon +45 96 35 06 06 | Fax | shop@murrelektronik.dk | shop.murrelektronik.dk



Operating voltage AC min.     19.2 V       Operating voltage AC min.     28.9 V       Operating voltage AC     24.4 V       Operating voltage AC min.     18 V       Operating voltage AC min.     18 V       Operating voltage AC min.     50 V       Control operating voltage AC min.     4 A       Disposition     4 A       Disposition     Voltage AC min.       Disposition     Voltage AC min.       Disposition     Voltage AC min.       Disposition     4 A       Disposition     Voltage AC min.       Disposition     Parating Nonpurstion       Disposition     Parating N	Operating voltage AC	24 V
Operating voltage DC     24 V       Operating voltage DC max.     30 V       Call of tpeak voltage roak.     30 V       Call of tpeak voltage roak.     4 A       Diagnostice     90 voltage DC max.       Struk inclusion LED     yellow       Device protection [Electrical     90 voltage context max.       Additional condition protection degree     inserted. screwed       Polution begree     3       Relative sup voltage     0.8 kV       Mechanical data     Machanical data       Color housing     black       Material riscurage     0.8 kV       Mechanical data I Mouring data     restretd. screwed       Environmental characteristics [Climatic     Converted screwed       Operating tomparkum max.     25 °C       Operating tomparkum max.     25 °C       Operating tomparkum max.     25 °C       Additional condition temperature range     depending on cable quality       Important Installation notes     Note on train nield       Note on train nield     Protect the connectors by suitable measures from mechanical loads, e g by the usage of cable files.       Note on train nield     Protect the connectors	Operating voltage AC min.	19,2 V
Operating voltage CC min.     18 V       Oparating voltage CC min.     30 V       Current operating per contact max.     4 A       Diagnostics     SS V       Status indication LED     yolow       Device protection [Electrical     Additional condition protection degree       Additional condition protection (Electrical     Served       Mechanical data [Material data     Color housing       Color housing     Back       Mechanical data [Material data     Color housing       Color housing     Plastic       Mechanical data [Material data     Color housing       Mechanical data [Material data     Color housing       Operating temperature min.     25 °C       Operating temperature min.     25 °C       Operating temperature max.     26 °C       Operating temperature trans.     26 °C <t< td=""><td>Operating voltage AC max.</td><td>28,8 V</td></t<>	Operating voltage AC max.	28,8 V
Operating voltage DC max.     90 V       Cut of I peak voltage max.     55 V       Cut corrent operating provortiset max.     4 A       Diagnostics     Status indication LED       Status indication tED     yellow       Device protection [Electrical     Additional condition protection degree       Additional condition protection degree     3       Radio suge voltage     0.8 kV       Mechanical data [Material back     Color nousing       Material housing     Plastic       Mechanical data [Mounting data     Mounting method       Corronation framework     85 °C       Operating temperature min.     -25 °C       Operating temoprature max.     85 °C	Operating voltage DC	24 V
Cal. of peak voltage max. 55 V   Current operating per contact max. 4 A   Diagnostics Status indication LED yallow   Device protection   Electrical Additional condition protectint degree 3   Rade auge voltage 0.9 kV   Mechanical data   Material data Color housing black   Mechanical data   Material data Color housing Plastic   Mechanical data Gos °C Color housing Color housing   Mechanical data Gos °C Color housing Color housing   Mechanical data Gos °C Color housing Color housing   Nole on sirian relief Proleot. Hou connectors by suitable measures from mechanical loads. e.g. by the usage of cable lies.   Material no. Color with reliation notes Attention: Color woltang forces.   Potoct stand (p) color data Color housing by cocosible woltang forces.   Color data Color housing by cocosible woltang forces.   <	Operating voltage DC min.	18 V
Cal. of peak voltage max. 55 V   Current operating per contact max. 4 A   Diagnostics Status indication LED yallow   Device protection   Electrical Additional condition protectint degree 3   Rade auge voltage 0.9 kV   Mechanical data   Material data Color housing black   Mechanical data   Material data Color housing Plastic   Mechanical data Gos °C Color housing Color housing   Mechanical data Gos °C Color housing Color housing   Mechanical data Gos °C Color housing Color housing   Nole on sirian relief Proleot. Hou connectors by suitable measures from mechanical loads. e.g. by the usage of cable lies.   Material no. Color with reliation notes Attention: Color woltang forces.   Potoct stand (p) color data Color housing by cocosible woltang forces.   Color data Color housing by cocosible woltang forces.   <		30 V
Current operating per contact max.     4 A       Diagnostics     Status indication LED     yellow       Device protection   Electrical     Additional condition protection degree     inserted, screwed       Patulant Digrae     3     Reado surge voltage     0.8 NV       Mechanical data   Material data     Color housing     black     Mechanical data   Material data       Color housing     Patalsc     Mechanical data   Mounting data     Mechanical data   Mounting data       Mounting method     inserted, screwed     Petalsc     Mechanical data   Mounting data       Mounting method     inserted, screwed     Petalsc     Mechanical data   Mounting data       Mounting method     inserted, screwed     Petalsc     Mechanical data   Mounting data       Mounting method     inserted, screwed     Petalsc     Mechanical data   Mounting data       Mounting temperature max.     85 °C     Operating temperature may.     85 °C       Additional condition temperature rarge     degreding on cable quality     Mechanical colas, e.g. by the usage of cable less.       Note on bending radius     Attention: Observe the permissible bending radii when laying cables, e.g. the IP protection class can be ondangrad by excessive bending tradii when laying cables,		55 V
Status indication LED     yellow       Device top l Electrial	Current operating per contact max.	4 A
Status indication LED     yellow       Device top l Electrial	Diagnostics	
Additional condition protection degree     inserted, screwed       Pollution Degree     3       Bated surge voltage     0,8 kV       Mechanical data [Material data     Material nousing       Mechanical data [Mounting data     Material nousing       Mechanical data [Mounting data     Material nousing       Mechanical data [Mounting data     Inserted, screwed       Environmental characteristics [Climatic     Fore       Operating temperature nnin.     -25 °C       Operating temperature nasc.     B5 °C       Additional condition temperature range     depending on cable quality       Insertain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Atterion: Observe the permissible bending radit when laying cables, as the IP protection class can be endangered by excessive bending forces.	Status indication LED	yellow
Pailution Degree     3       Rated aruge voltage     0,8 kV       Mechanical data   Material data     Color housing     black       Color housing     black     Material housing     Plastic       Mechanical data   Mounting data     Interestic, screwed     Interestic, screwed       Environmental characteristics   Climatic     Screwed     Interestic, screwed       Environmental characteristics   Climatic     Screwed     Screwed       Additional condition temporature max.     85 °C     Colorating temporature max.     85 °C       Additional condition temporature max.     85 °C     Colorating temporature max.     85 °C       Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tites.       Note on bending radus     Attention: Observe the parmisable bending radiu when laying cables, as the IP protection class can be endangered by excessive banding forces.       Contormity     Product standard     DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilstecker)       Installation   Cable     State 1, black 2, green-yellow     Cable identification       Cable identification     256     Cable identification     Cable identification     Cable identification	Device protection   Electrical	
Pailution Degree     3       Rated aruge voltage     0,8 kV       Mechanical data   Material data     Color housing     black       Color housing     black     Material housing     Plastic       Mechanical data   Mounting data     Interestic, screwed     Interestic, screwed       Environmental characteristics   Climatic     Screwed     Interestic, screwed       Environmental characteristics   Climatic     Screwed     Screwed       Additional condition temporature max.     85 °C     Colorating temporature max.     85 °C       Additional condition temporature max.     85 °C     Colorating temporature max.     85 °C       Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tites.       Note on bending radus     Attention: Observe the parmisable bending radiu when laying cables, as the IP protection class can be endangered by excessive banding forces.       Contormity     Product standard     DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilstecker)       Installation   Cable     State 1, black 2, green-yellow     Cable identification       Cable identification     256     Cable identification     Cable identification     Cable identification	Additional condition protection degree	inserted, screwed
Bated surge voltage     0,8 kV       Mechanical data   Material data     Jack       Color housing     black       Material housing     Plastic       Mechanical data   Mounting data     Inserted, screwed       Environmental characteristics   Climatic     Color housing       Operating membrature max.     25 °C       Operating temperature max.     85 °C       Addition temperature max.     85 °C       Contornity     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ites.       Mount standard     DIN EN 61076-2-101		
Mechanical data   Material data       Color housing     black       Material housing     Plastic       Mechanical data   Mounting data     Inserted, screwed       Environmental characteristics   Climatic     Color housing       Operating temperature min.     -25 °C       Operating temperature max.     85 °C       Additional condition temperature range     depending on cable quality       Important installation notes     Sero Consectors by suitable measures from mechanical loads, e.g. by the usage of cable lotes.       Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable lotes.       Concremity     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable lotes.       Concremity     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable lotes.       Concremity     Protect the connectors by suitable measures from mechanical loads e.g. by the usage of cable lotes.       Concremity     Protect the connectors by suitable measures from mechanical loads e.g. by the usage of cable lotes.       Concremity     Protect the connectors by suitable measures from mechanical loads e.g. by the usage of cable lotes.       Concremity     Protect the connectors by suitable measures from mechanical loads e.g. by the usage of cable lotes.		0.8 kV
Color housing     black       Material housing     Plastic       Mechaical data   Mounting data     inserted, screwed       Evarionmental characteristics   Climatt     Evarionmental characteristics   Climatt       Operating temperature main.     -25 °C       Operating temperature max.     85 °C       Additional condition temperature range     depending on cable quality       Important installation notes     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 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 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.       Installation Cable     INE N 61076-2-101 (M12); DIN EN 175301-803 (Venilistecker)       Instalation of wire insulation     Biack 1, bl		•••
Material housing     Plastic       Mechanical data   Mounting data       Mouning method     inserted, screwed       Environmental characteristics   Climatic     Coperating temperature max.       Qperating 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 tise.       Note on banding radius     Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endargered by excessive bending forces.       Conformity     Installation:       Product standard     DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilstecker)       Installation   Cable     Vent       wire arrangement     black 1, black 2, green-yellow       Cable identification     256       Printing color of wire insulation		
Mechanical data   Mounting data       Mounting method     inserted, screwed       Environmental characteristics   Climatic       Operating temperature man.     25 °C       Operating temperature man.     85 °C       Additional condition temperature man.     65 °C       Additional condition temperature man.     65 °C       Additional condition temperature man.     65 °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.       Contomity     Environmental distribution: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.       Contomity     Environmental distribution: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.       Contomity     Environmental distribution: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.       Contomity     Environmental distribution: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.       Contomity     Envistandard       Installati	-	
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     Material controls       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 adnagered by excessive bending forces.       Contormity     Product standard       Product standard     DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilstecker)       Installation (Cable     Se       Cable identification     256       Cable divertification     256       Cable Type     5       Printing color of wire insulation     white (solaton black)       Jacket Color     gray       Type of Certificate     CURus       Amount stranding     1       Stranding     3 wires twisted       Wire arrangement     black 1, black 2, green-yellow       Cable weigh     48,4 g/m		Plastic
Environmental characteristics   Climatic       Operating temperature min.     -25 °C       Operating temperature max.     85 °C       Additional condition temperature may.     depending on cable quality       Important installation notes     expending on cable quality       Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Note on brain relief     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 I Cable     Use a rangement       Black 1, black 2, green-yellow     Cable forget       Cable forget     5       Printing color of wire insulation     white (isolation black)       Jacket Color     gray       Type of Cortificate     cURus       Amount stranding     1       Stranding     3 wires twisted       wire arangement     black 1, black 2, green-yellow       Cable weight     48.4 g/m       Additorial jacket     PUR       Stranding <td< td=""><td>Mechanical data   Mounting data</td><td></td></td<>	Mechanical data   Mounting data	
Operating temperature min.     -25 °C       Operating temperature max.     85 °C       Additional condition temperature maye     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 ites.       Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.       Contornity     Product standard       Product standard     DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilstecker)       Installation (Cable     Important installation (Cable)       wire arrangement     black 1, black 2, green-yellow       Cable identification     256       Cable Identification     256       Cable Or of wire insulation     while (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 weight     48,4 grin       Material jacket     PUR       Shore hardness jacket	Mounting method	inserted, screwed
Operating temperature max.     85 °C       Additional condition temperature range     depending on cable quality       Important installation notes     Mote 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     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     wire arrangement     black 1, black 2, green-yellow       Cable Identification     256     Cable Identification     256       Cable Identification     256     Cable Identification     256       Cable Identification     310     Yes of Certificate     CIPRus       Amount stranding     1     Stranding     1       Stranding     3 wires twisted     Wire arrangement     black 1, black 2, green-yellow       Cable weight     48,4 g/m     Material jacket     PUR       Shore hardness jacket     58 ± 3 Shore D     Shore hardness jacket	Environmental characteristics   Climatic	
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 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 I Cable     wire arrangement     black 1, black 2, green-yellow       Cable function     256     Cable Type     5       Printing color of wire insulation     white (isolation black)     Jacket Color     gray       Type of Certificate     CIRus     Amount stranding     1       Stranding     3 wires twisted     Wire arrangement     black 2, green-yellow       Cable leveligth     48,4 g/m     Material jacket     PUR       Stranding     1     Stranding     1       Stranding     3 wires twisted     Stranding     1       Stranding     3 wires twisted     Stranding     Stranding     Stranding     Stranding     Stranding     Stranding     Stranding     Stranding	Operating temperature min.	-25 °C
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.       Contornity     Product standard     DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilstecker)       Installation   Cable     UN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilstecker)       wire arrangement     black 1, black 2, green-yellow       Cable identification     256       Cable Identification     256       Cable Identificate     CURus       Amount stranding     1       Stranding     3 wires twisted       wire arrangement     black 1, black 2, green-yellow       Cable wight     48,4 g/m       Atterial jacket     PUR       Stranding     3 wires twisted       Wire arrangement     black 1, black 2, green-yellow       Cable weight     48,4 g/m       Material jacket     PUR       Shore hardness jacket     54 3 Shore D       Freedom from ingredients (jacket)     Jead-free, cadmium-free, CFC-free, halogen-free, silicone-free	Operating 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 bending radius     Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endagered by excessive bending forces.       Conformity     Product standard     DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilstecker)       Installation   Cable     Use of a content of a conten content of a content of a content of a content of a c	Additional condition temperature range	depending on cable quality
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 endagered by excessive bending forces.       Conformity     Product standard     DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilstecker)       Installation   Cable     Use of a content of a conten content of a content of a content of a content of a c	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.       Conformity     Image: Conformity       Product standard     DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilstecker)       Installation   Cable     Image: Conformity       wire arrangement     black 1, black 2, green-yellow       Cable identification     256       Cable identification     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)     1ead-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 (sheath)     ± 5 %       Shore hardness wire insulation     1,7 mm       Outer diameter insulati	•	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties
ConformityProduct standardDIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilstecker)Installation   Cablewire arrangementblack 1, black 2, green-yellowCable identification256Cable Itype5Printing color of wire insulationwhite (isolation black)Jacket ColorgrayType of CertificatecURusAmount stranding1Stranding3 wires twistedwire arrangementblack 1, black 2, green-yellowCable weigth48,4 g/mMaterial jacketPURShore hardness jacket58 ± 3 Shore DFreedom from ingredients (jacket)1ead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)5,2 mmTolerance outer diameter (sheath)± 5 %Material vire insulation17 mmOuter diameter insulation1,7 mmOuter diameter insulation1,7 mmOuter diameter insulation1,7 mmOuter diameter insulation1,4 ± 3 Shore D		Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be
Product standardDIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilstecker)Installation   Cablewire arrangementblack 1, black 2, green-yellowCable identification256Cable identificationblack 1, black 2, green-yellowCable of vire insulationwhite (isolation black)Jacket ColorgrayType of CertificatecURusAmount stranding1Stranding3 wires twistedwire arrangementblack 1, black 2, green-yellowCable weight48, 4 g/mMaterial jacketPURShore hardness jacket58 ± 3 Shore DFreedom from ingredients (jacket)5.2 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires3Outer diameter insulation1,7 mmOuter diameter tolerance core insulation1,7 mmOuter diameter tolerance core insulation1,5 %Shore hardness wire insulation74 ± 3 Shore D	Conformity	
Installation   Cablewire arrangementblack 1, black 2, green-yellowCable identification256Cable Type5Printing color of wire insulationwhite (isolation black)Jacket ColorgrayType of CertificatecURusAmount stranding1Stranding3 wires twistedwire arrangementblack 1, black 2, green-yellowCable weigth48,4 g/mMaterial jacketPURShore hardness jacket58 ± 3 Shore DFreedom from ingredients (jacket)62,2 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires3Outer diameter insulation1,7 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation74 ± 3 Shore D		DIN EN 61076-2-101 (M12): DIN EN 175301-803 (Ventilstecker)
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Jacket ColorgrayType of CertificatecURusAmount stranding1Stranding3 wires twistedwire arrangementblack 1, black 2, green-yellowCable weigth48,4 g/mMaterial jacketPURShore hardness jacket58 ± 3 Shore DFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)5,2 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires3Outer diameter tolerance core insulation± 5 %Shore hardness wire insulation74 ± 3 Shore D		
Type of CertificatecURusAmount stranding1Stranding3 wires twistedwire arrangementblack 1, black 2, green-yellowCable weigth48,4 g/mMaterial jacketPURShore hardness jacket58 ± 3 Shore DFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)5,2 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires3Outer diameter insulation1,7 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation74 ± 3 Shore D	-	
Amount stranding1Stranding3 wires twistedwire arrangementblack 1, black 2, green-yellowCable weigth48,4 g/mMaterial jacketPURShore hardness jacket58 ± 3 Shore DFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)5,2 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires3Outer diameter insulation1,7 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation74 ± 3 Shore D		
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	Ingredient freeness wire insulation	lead-tree, cadmium-tree, CFC-tree, halogen-tree, silicone-free

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: 2024-06-25

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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   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
Traversing distance (C-track)	5 m @ 25 °C   horizontal
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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