

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

PUR 3x0.75 bk UL/CSA+drag ch. 2m

**MSUD** 

Form BI (11 mm) - M12, male straight 24 V AC  $\pm 20\%$  / DC  $\pm 25\%$ 

LED and suppression

Further cable lengths on request.

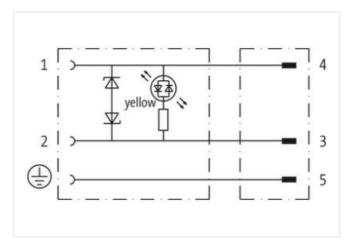
Plastic housings with good resistance against chemicals and oils.

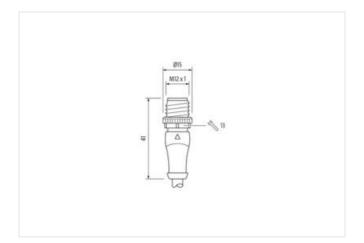
The resistance to aggressive media should be individually tested for your application. Further details on request.

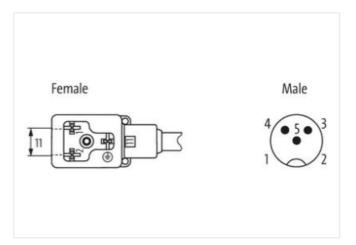
## **Link to Product**

## Illustration



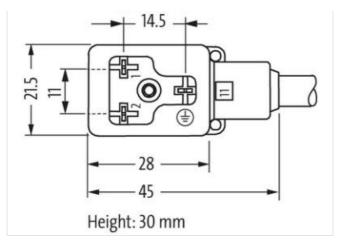








stay connected



Product may differ from Image



Cable length	2 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 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	4048879148757
Packaging unit	1
Electrical data	
Capacity CX	20 ms
Electrical data   Supply	



stay connected

Operating voltage AC max.  Operating voltage DC  24 V  Operating voltage DC min.  18 V  Operating voltage DC min.  Out-off peak voltage max.  55 V  Current operating per contact max.  4 A  Diagnostics  Status indication LED  yellow  Device protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage 0,8 kV  Mechanical data   Material data  Color housing black  Material housing Plastic  Mechanical data   Mounting data  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  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 lavion cables can be appropriated and provided and the protection class can be	Operating voltage AC	24 V
Operating voltage DC Orin. 18 V Operating voltage DC min. 18 V Operating voltage DC min. 30 V Operating voltage DC min. 30 V Operating voltage DC min. 30 V Out-off peak voltage max. 55 V Out-off peak voltage max. 4 A  Diagnostics  Status indication LED yellow Device protection   Electrical Additional condition protection degree insented, screwed  Pollution Diagnostics 3  Additional condition protection degree insented, screwed  Additional condition of the cond	Operating voltage AC min.	19,2 V
Operating voltage DC min. 18 V Out-off peak voltage max. 55 V	Operating voltage AC max.	28,8 V
Operating voltage DC max. 55 V  Current operating per contact max. 55 V  Diagnostics  Straus indication LED yellow  Divice protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3 New Yellow  Machanical data   Material data    Material busing Delay   Delay    Material busing Person   Delay    Material busing Person   Delay    Material busing Person   Delay    Material busing Person   Delay    Material found in material data   Mounting data    Mounting method Inserted, screwed    Environmental characteristics   Climate    Coperating temperature min. 25 °C Coperating temperature min. 25 °C Coperating temperature max. 85 °C Coperating	Operating voltage DC	24 V
Gut off peak voltager max.         5 V           Current operating per contact max.         4 A           Displagnostics         Value           Status indication LED         yellow           Device protection Electrical         Value           Additional condition protection degree         3           Pallation sup voltage         0.8 kV           Machinal adata Material data         Value           Color housing         black           Material trousing         plastic           Material trousing         plastic           Mounting method         inserted, screwed           Environmental characteristics   Climatic         Color housing           Mounting method         inserted, screwed           Environmental characteristics   Climatic         Colorating temperature mix.           Operating temperature mix.         25 °C           Operating temperature mix.         85 °C           Additional condition temperature range         depending on eable quality           Important installation oncies         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 r	Operating voltage DC min.	18 V
Diagnostics   States indication LED   yellow	Operating voltage DC max.	30 V
Disputoristic         Status indication LED         yellow           Device protection   Electrical         Device protection   Electrical           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Attention and State   Marterial data         Week Place   Marterial data   Marterial data   Marterial data   Marterial data   Municing data   Municing method         Inserted, scrowed           Environmental Characteristics   Climatic         Coperating temperature min.         25 °C           Operating temperature min.         25 °C           Operating temperature max.         85 °C           Additional condition temperature range         depending on cable quality           Important installation notes         Note on strain resident         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable less.           Note on strain resident         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable less.           Note on strain resident         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable less.           Conformity         Protect standard         DIN EN 61076-2-101 (M12; DIN EN 175301-803 (Venilistecker)           Installation   Cable on the insulation   Cable on	Cut-off peak voltage max.	55 V
Status indication LED yellow  Povice protection   Electrical  Additional condition protection degree is inserted, screwed  Pollution Degree 3  Ralad surge voltage 0.8 kV  Mechanical data   Material data  Mechanical data   Material data  Mechanical data   Material data  Mechanical data   Material data  Mechanical data   Mounting data  Mote 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 (Ventilatecker)  Installation   Cable  Cable identification   S36  Cable Type  3  Printing color of wire insulation   White (solation black)  Jacked Color of other insulation   Mounting data   Mounting dat	Current operating per contact max.	4 A
Device protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage 0,8 kV  Mechanical data   Material data  Color housing black  Material housing Pleasic  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C  Operating temperature max. 85 °C  Operating temperature max. 85 °C  Additional condition temperature rape 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. Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Contornity  Product standard District of two insulation of the open of the open of two insulation of the open	Diagnostics	
Additional condition protection degree   3   3   3   3   3   3   3   3   3	Status indication LED	yellow
Rollution Degree         3           Rated surge voltage         0,8 kV           Mechanical data   Material data           Color housing         black           Malerial housing         Plastic           Mechanical data   Mounting data         Mechanical data   Mounting data           Mounting method         inserted, screwed           Environmental characteristics   Climatic         Operating temperature max.           Operating temperature max.         85 °C           Additional condition temperature range         depending on cable quality           Important Installation notes         85 °C           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 (Ventilistecker)           Installation   Cable         Cable identification           Cable identification         636           Cable in Type or Certificate         CURbus           Amount stranding         1           Stranding         3           Stranding         3 wies twisted           Write aurangement         black 1, black 2, green-yellow           Traversing distance (C-track)         10 m @ 25 °C   horizontal	Device protection   Electrical	
Rated surge voltage 0,8 kV  Mechanical data   Meterial data  Color housing Plastic  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic Operating temperature min. 25 °C 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.  Alterition: 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 (Ventilistecker)  Installation   Cable Cable identification   636 Cable Type 3 Printing older of wire insulation   white (isolation black) Jacket Color   UPIus 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 weigh Material jacket   PUR  Shore hardness jacket   PuR  Amount stranding   5, 9 mm  Tolerance outer diameter (slocket)   1,85 mm  Outer diameter (slocket)   5,9 mm  Tolerance outer diameter (sheath)   ± 5 %  Shore hardness wire insulation   1,85 mm  Outer diameter insulation   1,85 mm  Outer diameter insulation   70 ± 5 Shore D	Additional condition protection degree	inserted, screwed
Methanical data   Material data Color housing black Material housing Plastic  Methanical data   Mounting data Mechanical data   Mounting data Mechanical data   Mounting data  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.  Attentions: 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 (Ventilistecker)  Installation   Cable  Cable identification   636 Cable Type 3  Printing color of wire insullation white (isolation black)  Jacket Color black  Type of Certificate CUPlus  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 wingth   Sq. igm  Material jacket 9  DUR Shore hardness jacket 9  DUR Shore hardness injected erispeating   L55 %  Material wire diameter (fisheath) ± 5 %  Coluter diameter (isolation plack) 1, 85 mm  Outer diameter insulation   1,85 mm	Pollution Degree	3
Methanical data   Material data Color housing black Material housing Plastic  Methanical data   Mounting data Mechanical data   Mounting data Mechanical data   Mounting data  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.  Attentions: 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 (Ventilistecker)  Installation   Cable  Cable identification   636 Cable Type 3  Printing color of wire insullation white (isolation black)  Jacket Color black  Type of Certificate CUPlus  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 wingth   Sq. igm  Material jacket 9  DUR Shore hardness jacket 9  DUR Shore hardness injected erispeating   L55 %  Material wire diameter (fisheath) ± 5 %  Coluter diameter (isolation plack) 1, 85 mm  Outer diameter insulation   1,85 mm	Rated surge voltage	0,8 kV
Color housing         black           Material bousing         Plastic           Mechanical datal Mounting data         Mechanical datal Mounting data           Mounting method         inserted, screwed           Environmental characteristics   Climatic         Coperating temperature min.         25 °C           Operating temperature range         85 °C         Conditional condition temperature range         deponding 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.           Contomity         Product standard         In Si 1076-2-101 (M12); DIN EN 175301-803 (Ventilistecker)           Installation   Cable         Cable identification         636           Cable identification         636         Cable identification         636           Cable identification         636         Cable identification         401           Cable identification         636         Cable identification         401           Cable identification         636         Cable identificatio		
Material housing Plastic  Mechanical data   Mounting data  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  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 (Ventilistecker)  Installation   Cable  Cable identification 636  Cable installation of wire insulation white (isolation black)  Jacket Cofor black  Type of Certificate Culfus  Avinces wire arrangement Diack 1, plack 2, green-yellow  Traversing distance (C-track) 10 m @ 25 °C   horizontal  Cable weight 56,1 g/m  Material packet PUR  Shore hardness jacket 99 P  Amount stranders jacket 99 P  Amount wires 3  Outer diameter (jacket) 5,9 mm  Tolerance outer diameter (sebath) 5,9 mm  Tolerance outer diameter (sebath) 1,85 mm  Outer diameter insulation 1,85 mm  Outer diameter insulation 1,90 ± 5 Shore D  Shore hardness wire insulation 1,85 mm  Outer diameter insulation 1,85 mm  Outer diameter insulation 1,90 ± 5 Shore D	·	blad
Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °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.  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 636  Cable Type 3  Printing color of wire insulation white (isolation black)  Jacket Color black  Amount stranding 1  Stranding 3 wires twisted wire arrangement black 1, black 2, green-yellow  Traversing distance (C-track) 10 m @ 25 °C   horizontal  Cable weight 58,1 g/m  Material jacket PUR  Shore hardness jacket 90 ± 5 %  Material wire sulation PP  Amount wires 3  Outer diameter (jacket) 1,8 mm  Outer diameter (jacket) 5,9 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires  Shore hardness wire insulation P7 ± 5 Shore D		
Mounting method inserted, screwed  Environmental characteristics   Climatic Operating temperature min25 °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.  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 636 Cable identification white (isolation black) Jacket Color black Color wire insulation white (isolation black) Jacket Color black 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 hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) 19.9 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 3 Outer diameter (loaken) ± 5 % Shore hardness wire insulation 1,35 mm Outer diameter insulation 50 + 5 Shore D		Mastic
Environmental characteristics   Climatic Operating temperature min25 °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.  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 636 Cable Type 3 Printing color of wire insulation white (isolation black) Jacket Color black 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 weight 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 % Material wire insulation 1,85 mm Outler diameter solutation 1,85 mm Outler diameter (sinsulation 50 ± 5 Shore D	Mechanical data   Mounting data	
Operating temperature min.	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 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 DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilistecker)  Installation   Cable  Cable identification 636 Cable Type 3 Printing color of wire insulation white (isolation black) Jacket Color black 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 weight 56,1 g/m Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) 5,9 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation 1,85 mm Outer diameter insulation 1,85 mm Outer diameter tolerance core insulation 5 % Shore hardness wire insulation 70 ± 5 Shore D	Environmental characteristics   Climatic	
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.  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 (Ventilistecker)  Installation   Cable  Cable identification 636  Cable Type 3  Printing color of wire insulation white (isolation black)  Jacket Color black  Type of Certificate cURus  Amount stranding 1  Stranding 3 wires twisted  Traversing distance (C-track) 10 m @ 25 °C   horizontal  Cable weigth 56,1 g/m  Material jacket PUR  Shore hardness jacket 90 ± 5 Nore 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) 45 %  Material wire insulation PP  Amount wires 3  Outer diameter insulation 1,85 mm  Outer diameter soulation 5,0 ± 5 Shore D	Operating temperature min.	-25 °C
Inportant 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 DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilistecker)  Installation   Cable  Cable identification 636  Cable Type 3  Cable identification white (isolation black)  Jacket Color black  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 weigh 56,1 g/m  Material jacket PUR  Shore hardness jacket 90.5 Shore A  Freedom from ingredients (jacket) learlere, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacketh) 5.9 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation 1,85 mm  Outer diameter tolerance core insulation 5,0 ± 5 Shore D	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.  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 (Ventilistecker)  Installation   Cable  Cable identification 636  Cable identification white (isolation black)  Jacket Color black  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 %  Material wire insulation PP  Amount wires 3  Guter diameter (sleatth) ± 5 %  Material wire insulation + 25 %  Shore hardness wire insulation ± 5 %  Shore hardness wire insulation 70 ± 5 Shore D	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.  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 (Ventilistecker)  Installation   Cable  Cable identification 636  Cable identification white (isolation black)  Jacket Color black  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 %  Material wire insulation PP  Amount wires 3  Guter diameter (sleatth) ± 5 %  Material wire insulation + 25 %  Shore hardness wire insulation ± 5 %  Shore hardness wire insulation 70 ± 5 Shore D	Important installation notes	
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 636  Cable itype 3  Printing color of wire insulation white (isolation black)  Jacket Color black  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) 19,9 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 3  Outer diameter tolerance core insulation 70 ± 5 Shore D		Protect the connectors by suitable measures from mechanical loads, a g, by the usage of cable ties
Conformity  Product standard DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilistecker)  Installation   Cable  Cable identification 636  Cable Type 3  Printing color of wire insulation white (isolation black)  Jacket Color black 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 99 ± 5 Shore A  Freedom from ingredients (jacket) 19 m m  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 3  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 70 ± 5 Shore D	Note on bending radius	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be
Product standard DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilstecker)  Installation   Cable   Cable identification 636 Cable Type 3 Printing color of wire insulation white (isolation black) Jacket Color black Type of Certificate cURus Amount stranding 1 Stranding 3 vires 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 hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) 1,9 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 3 Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 70 ± 5 Shore D	Conformity	3,
Cable identification 636 Cable Type 3 Printing color of wire insulation white (isolation black)  Jacket Color black Type of Certificate cURus Armount 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 % Material wire insulation PP Armount wires 3 Outer diameter tolerance core insulation 1,85 mm Outer diameter tolerance core insulation 70 ± 5 Shore D		DIN EN 61076-2-101 (M12): DIN EN 175301-803 (Ventilstecker)
Cable identification 636 Cable Type 3 Printing color of wire insulation white (isolation black) Jacket Color black 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 % Material wire insulation PP Amount wires 3 Outer diameter insulation 1,85 mm Outer diameter tolerance core insulation 70 ± 5 Shore D		
Cable Type 3 Printing color of wire insulation white (isolation black)  Jacket Color black 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 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 3  Outer diameter insulation 1,85 mm  Outer diameter tolerance core insulation 50 ± 5 Shore D	•	000
Printing color of wire insulation white (isolation black)  Jacket Color black 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 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 3  Outer diameter insulation 1,85 mm  Outer diameter tolerance core insulation 570 ± 5 Shore D		
Dacket Color  black 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 mm  Tolerance outer diameter (sheath)  ± 5 %  Material wire insulation  PP  Amount wires  3  Outer diameter insulation  1,85 mm  Outer diameter tolerance core insulation  70 ± 5 Shore D		
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 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 3  Outer diameter insulation 1,85 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 70 ± 5 Shore D	-	
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 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 3  Outer diameter insulation 1,85 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 70 ± 5 Shore D		
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 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 3  Outer diameter insulation 1,85 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 70 ± 5 Shore D		
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 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 3  Outer diameter insulation 1,85 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 70 ± 5 Shore D		
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 mm  Tolerance outer diameter (sheath)  ± 5 %  Material wire insulation  PP  Amount wires  3  Outer diameter insulation  1,85 mm  Outer diameter tolerance core insulation  70 ± 5 Shore D		
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 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 3  Outer diameter insulation 1,85 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 70 ± 5 Shore D	<u> </u>	
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 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 3  Outer diameter insulation 1,85 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 70 ± 5 Shore D		
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  Amount wires 3  Outer diameter insulation 1,85 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 70 ± 5 Shore D		<del>-</del>
Freedom from ingredients (jacket)  Outer-diameter (jacket)  5,9 mm  Tolerance outer diameter (sheath)  4 5 %  Material wire insulation  PP  Amount wires  3  Outer diameter insulation  1,85 mm  Outer diameter tolerance core insulation  4 5 %  Shore hardness wire insulation  70 ± 5 Shore D		
Outer-diameter (jacket) 5,9 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 3  Outer diameter insulation 1,85 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 70 ± 5 Shore D		
Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 3  Outer diameter insulation 1,85 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 70 ± 5 Shore D		<del>-</del>
Material wire insulation PP  Amount wires 3 Outer diameter insulation 1,85 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 70 ± 5 Shore D		
Amount wires 3 Outer diameter insulation 1,85 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 70 ± 5 Shore D		
Outer diameter insulation 1,85 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 70 ± 5 Shore D		
Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 70 ± 5 Shore D		
Shore hardness wire insulation 70 ± 5 Shore D		
ingredient freeness wire insulation lead-free, cadmitum-free, CFC-free, natogen-free, silicone-free		
	ingredient freeness wire insulation	ieau-nee, caumum-nee, oro-nee, naiogen-iree, silicone-iree



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
UV resistance	DIN EN ISO 4892-2 A
Flame resistance	IEC 60332-2-2   UL 1581 § 1100 FT2   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
Travel speed (C-track)	10 Mio. @ 25 °C
No. of torsion cycles	2 Mio.
Torsion stress	± 180 °/m
Torsion speed	35 cycles/min