

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

PVC 3x0.75 bk 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.

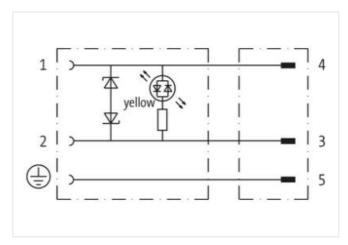
Plastic housings with good resistance against chemicals and oils.

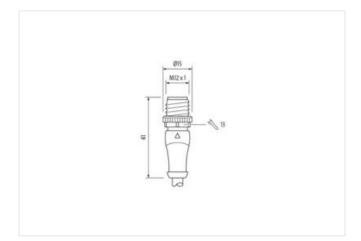
The resistance to aggressive media should be individually tested for your application. Further details on request.

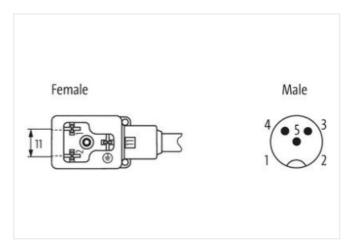
## **Link to Product**

## Illustration



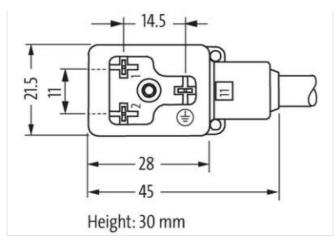








stay connected



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 $\emptyset$ )	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	4048879148900
Packaging unit	1
Electrical data	
Capacity CX	20 ms



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Operating voltage AC in: Operating voltage AC in: Operating voltage AC in: Operating voltage AC max: Operating voltage AC max: Operating voltage CC min. Operating voltage max.  Sizu indication LED  politor  Device protection (Electrical  Mactional condition operation operation of page in inserted, screwed  Pollution Degree  3	0 1 1 10	
Operating voltage AC max         28 8 Y           Operating voltage DC min.         18 V           Operating voltage DC max.         30 V           Cut-off park voltage DC max.         55 V           Cutrott operating per contact max.         4 A           Description of participation of	Operating voltage AC	24 V
Operating voltage DC min         18 V           Operating voltage DC max         30 V           Current operating providage DC max         55 V           Current operating providage max         4 A           Diagnostics         Status indication LED         yellow           Device protection Electrical         Valuation Deproved protection degree         Inserted, screwed           Additional condition protection degree         3 S         Read auge voltage         0,8 kV           Mechanical data Material housing         black         Plastic         Plastic           Michanical data Mounting data         Inserted, screwed         Plastic           Michanical data Mounting data         Inserted, screwed         Plastic           Environmental characteristics   Climatic         Concerning temperature max         25 °C           Operating temperature max         85 °C         Additional condition temperature range         depending on abile quality           Important installation notes         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable fee.           Note on sharing radius         Aftention: Observe the permissible bording radii when laying cabbus, as the IP protection class can be ordinated and and and protection of two insulation of the permissible bording radii when laying cabbus, as the IP protection class can be ordinated and and protection of two insulation protection of twe insul	Operating voltage AC min.	19,2 V
Operating voltage DC min.         18 Y           Operating voltage DC min.         30 Y           Cut-off peak voltage max.         55 V           Cut-off peak voltage max.         55 V           Description of peak voltage max.         55 V           Description Description of peak voltage max.         yellow           Device protection Effectical         Wellow           Additional condation protection degree         3           Pollution Degree         3           Rated surge voltage         0,8 V           Mechanical data Musterial data         Wellow           Microal housing         black           Musterial housing         Pastice           Mechanical data Musterial data         Wellow           Microal housing         Pastice           Musterial housing         Pastice           Mechanical data Musterial data         Wellow           Environmental characteristics   Climate         Velocity (Company)           Coperating preparature max.         45 °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 ites.           Note o	Operating voltage AC max.	28,8 V
Operating temperature min.         25 °C           Operating temperature min.         45 °C           Note on bending radius         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endanged by excessive bending forces.           Conformity         Product standard         bis No IN 61076-2-101 (M	Operating voltage DC	24 V
Current operating per contact max. 4 Å  Disenseties  States indication LED yellow  Device protection   Electrical  Additional condition protection degree Pollution Degree 3 Rate da surge votinge 0,8 kV  Michanical data   Michani	Operating voltage DC min.	18 V
Current operating per contact max.  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 flouring data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Environmental characteristics   Climatic  Operating temperature max. 26 °C  Conformity  Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Note on sharin relied  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endanged by excessive bending forces.  Conformity  Product standard DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventiletecker)  Institution Cable  Cable identification of 616  Cable Type 1  Prefitting color of wire insulation with (scolation black)  Jacked Color black  Amount stranding 1  Prefitting color of wire insulation of black 1, Black 2, green yellow  Cable weight 6, 15, gm  Material jacket PVC  Shore hardness jacket PVC  Other diameter (schealt) 9, 5, mm  Anteriores outer diameter (schealt) 1, 5 mm  Material wire insulation 2, 5 mm  Authorial wire insulation 2, 5 mm  Authorial wire insulation 2, 5 mm  Authorial wire insulation 3, mm  Authorial wire insulation 43 ± 5 % hone 0  Material properties wire insulation 1, 5 mm  Incredient resease wire insulation 1, 5 mm	Operating voltage DC max.	30 V
Disposatios         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         Wechanical data   Material data           Mechanical data   Muniting data         Wechanical data   Muniting data           Mechanical data   Muniting data         Wechanical data   Muniting data           Environmental characteristics   Climatic         Commender           Operating temperature min.         25 ° C           Operating temperature max.         85 °C           Additional condition temperature range         depending on cable quality           Important installation notes         Vector of strain relief         Protect the connectors by suitable measures from mechanical loads, e.g., by the usage of cable fees.           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g., by the usage of cable fees.           Note on bending radius         Protect the connectors by suitable measures from mechanical loads, e.g., by the usage of cable fees.           Note on therding radius         Protect the connectors by suitable measures from mechanical loads, e.g., by the usage of cable fees.           Note on therding radius         Protect in fees pending feer fees pendin	Cut-off peak voltage max.	55 V
Status indication LED yellow  Device protection   Electrical  Additional condition protection degree   3 Rated surge voltage   0,8 kV    Mechanical data   Material data    Mechanical data   Material data    Mechanical data   Material data    Mechanical data   Munting data    Munting demonstration    Additional condition temperature man,   25 °C    Operating temperature man,   25 °C    Additional condition temperature range    depending on cable quality    Important installation notes    Note on strain relef   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable fees.    Additional condition temperature range   Attention. Cleares the permissible bearing radii when laying cables, as the IP protection cleas can be endangered by excessive bending forces.    Conformity    Product standard   DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Venilletecker)    Installation   Cable clearing temperature with laying cables, as the IP protection cleas can be endangered by excessive bending forces.    Cable identification   Affection   Affection    Alterition   Affection   Affecti	Current operating per contact max.	4 A
Device protection   Electrical	Diagnostics	
Additional condition protection degree inserted, screwed Pollution Degree 3 Rated surge voltage 0,8 kV  Mechanical data Material data  Color housing Plastic  Mechanical data Mounting data  Additional condition temperature man. 25 °C  Operating temperature man. 35 °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 dass can be endangered by excessive bending forces.  Conformity  Product standard Din Ken 61076-2-101 (M12): DIN EN 175301-803 (Vertilisticker)  Installation   Cable  Cable indentification 616  Cable indentification 416  Printing color of wire insulation white (solation black)  Jacket Color black  Annount stranding 1  Printing color of wire insulation white (solation black)  Jacket Color black  Material properation with a subsequence of experimental printing data the	Status indication LED	yellow
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         Coperating 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 fee.           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g., by the usage of cable fee.           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.           Product standard         DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Venitistecker)           Installation   Cable         Cable installation   Cable           Cable installation   Cable         Installation   Cable           Cable installation   Cable         Installation   Cable           Installation   Cable         Installation   Cable           Cable installation   Cable <t< td=""><td>Device protection   Electrical</td><td></td></t<>	Device protection   Electrical	
Rated surge voltage 0,8 kV  Mechanical data   Material data Color housing placis placis  Mechanical data   Mounting data Mounting method inserted, screwed  Environmental characteristics   Climato 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 lies.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Conformity  Product standard DINEN 61076-2-101 (M12); DINEN 175301-803 (Ventilistocker)  Installation   Cable Cable identification   616 Cable identification   616 Cable of the insulation   3 wires twisted wire arrangement   black   black   Amount stranding 1 Stranding 3 wires twisted  Ware arrangement   black   black   green-yellow  Cable weighh   61,6 g/m  Material jacket   PVC  Shore hardness jacket   80 ± 5 Shore A  Freedom from ingredients (jacket)   lead-free, cadmium-free, CFC-free, silicone-free  Outer-diameter (gacket)   5,9 mm  Outer diameter (raketin)   43 ± 5 %c  Shore hardness wire insulation   43 ± 5 Shore D  Material properties wire insulation   43 ± 5 Shore D  Material properties wire insulation   43 ± 5 Shore D  Material properties wire insulation   43 ± 5 Shore D  Material properties wire insulation   43 ± 5 Shore D  Material properties wire insulation   43 ± 5 Shore D	Additional condition protection degree	inserted, screwed
Mechanical data   Material data   Material data   Plastic	Pollution Degree	3
Color housing black Material housing Plastic  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.  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 No 61076-2-101 (M12); DIN EN 175301-803 (Ventilstecker)  Installation   Cable   Cable identification 616  Cable Type 1  Cable identification 4  Amount stranding 1  Stranding 3 wires twisted  white (selation black)  Jacket Color black  Amount stranding 1  Stranding 3 wires twisted  wire arrangement black 1, black 2, green-yellow  Cable weigh 61,6 g/m  Material jacket PVC  Thore hardness jacket 80 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free  Outer-diameter (jacket) 1,8 mm  Outer diameter insulation 1,8 mm  Outer diameter insulation 43 ± 5 Shore D  Material profiles wire insulation 9 good machinability lengther insulation 1,9 good machinability lengther in	Rated surge voltage	0,8 kV
Color housing black Material housing Plastic  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.  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 No 61076-2-101 (M12); DIN EN 175301-803 (Ventilstecker)  Installation   Cable   Cable identification 616  Cable Type 1  Cable identification 4  Amount stranding 1  Stranding 3 wires twisted  white (selation black)  Jacket Color black  Amount stranding 1  Stranding 3 wires twisted  wire arrangement black 1, black 2, green-yellow  Cable weigh 61,6 g/m  Material jacket PVC  Thore hardness jacket 80 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free  Outer-diameter (jacket) 1,8 mm  Outer diameter insulation 1,8 mm  Outer diameter insulation 43 ± 5 Shore D  Material profiles wire insulation 9 good machinability lengther insulation 1,9 good machinability lengther in	Mechanical data   Material data	
Material housing         Plastic           Mechanical data   Mounting data         Inserted, screwed           Environmental characteristics   Climatic         Coperating temperature min.         25 °C           Operating temperature max.         85 °C         Additional condition temperature range depending on cable quality         Mount of the properature max.         Additional condition temperature range depending on cable quality         Insert of the properature max.         Additional condition temperature range depending on cable quality         Insert of the properature max.         Additional condition temperature range depending on cable quality         Insert of the properature max.         Additional condition temperature range depending on cable quality         Insert of the properature max.         Additional condition temperature range depending on cable quality         Insert of the properature max.         Additional conditions.         Insert of the properature max and the properature range of cable titles.         Additional conditions.         Insert of the properature range means and t	·	block
Mechanical data   Mounting method         inserted, screwed           Environmental characteristics   Climatic           Operating temperature min.         -25 °C           Operating temperature man.         85 °C           Additional condition temperature range         depending on cable quality           Important installation notes         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on bending radius         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Conformity         Product standard         DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilistecker)           Installation   Cable         Cable identification         616           Cable identification         616         General color of wire insulation         white (isolation black)           Cable to for product standard         white (isolation black)         Macket Color         black           Amount stranding         1         Stranding         3 wires twisted           Stranding         3 wires twisted         4 black 1, black 2, green-yellow           Cable weigh         61.6 g/m         Material properties           <		
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.  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 616  Cable identification white (solation black)  Jacket Color black  Amount stranding 1  Stranding 3 wires twisted  wire arrangement black 1, Black 2, green-yellow  Cable weigh 61.6 g/m  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) 1,8 mm  Outer diameter (sheath) ± 5 %  Material wire insulation 1,8 mm  Outer diameter insulation 43 ± 5 Shore D  Shore hardness wire insulation 43 ± 5 Shore D  Shore hardness wire insulation 43 ± 5 Shore D  Shore hardness wire insulation 1,9 good machinability lead-free, cadmium-free, CFC-free, silicone-free  Outer diameter tolerance core insulation 1,8 mm  Outer diameter rolerance core insulation 1,8 mm  Outer diameter rolerance core insulation 1,9 good machinability lead-free, cadmium-free, CFC-free, silicone-free		PidStiC
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.  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 616 Cable Type 1 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 Cable weigth 61,6 g/m Material jacket PVC Shore hardness jacket 80 ± 5 Shore A Freedom from ingredients (jacket) [ead-free, cadmium-free, CFC-free, silicone-free Outer-diameter (jacket) 5,9 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation 43 ± 5 Shore D Material poperies wire insulation 43 ± 5 Shore D Material poperies wire insulation 43 ± 5 Shore D Material poperies wire insulation 43 ± 5 Shore L	Mechanical data   Mounting data	
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 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 616 Cable Type 1 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 Cable weighh 61.6 g/m Material jacket PVC Shore hardness jacket PVC  Outer-diameter (jacket) 5,9 mm  Tolerance outer diameter (sheath) ± 5 % Material wire insulation PVC Amount wires 3 Outer diameter tolerance core insulation 1,8 mm  Outer diameter tolerance core insulation 43 ± 5 Shore D  Material properties wire insulation 43 ± 5 Shore D  Material properties wire insulation 43 ± 5 Shore D  Material properties wire insulation 1,8 mm  Outer diameter tolerance core insulation 2,5 Shore D  Material properties wire insulation 43 ± 5 Shore D	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 (Ventilstecker)  Installation   Cable  Cable identification 616  Cable identification white (isolation black)  Jacket Color black  Amount stranding 1  Stranding 3 wires twisted  wire arrangement black 1, black 2, green-yellow  Cable weigth 61,6 g/m  Material jacket PVC  Shore hardness jacket 80 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free  Outer-diameter (sacket) 5,9 mm  Tolerance outer diameter (sheath) ± 5 %  Material properties wire insulation 43 ± 5 Shore D  Material properties wire insulation 43 ± 5 Shore D  Material properties wire insulation 42 ± 5 Shore D  Material properties wire insulation 43 ± 5 Shore D  Material properties wire insulation 4 good machinability Ingredient free.	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 616  Cable Type 1  Trinting 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  Cable weight 61,6 g/m  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) 5,9 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation 1,8 mm  Outer diameter tolerance core insulation 43 ± 5 Shore D  Material properties wire insulation lead-free, cadmium-free, CFC-free, silicone-free	Operating temperature min.	-25 °C
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 (Ventilistecker)           Installation   Cable         Cable identification         616           Cable Identification         616         Cable Identification         White (isolation black)           Jacket Color         black         Disack         Disack           Amount stranding         1         Trending of view insulation         3 wires twisted           Wire arrangement         black 1, black 2, green-yellow         Cable weigth         61.6 g/m           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)         5,9 mm         Tolerance outer diameter (sheath)         ± 5 %         Material processor insulation         1,8 mm           Outer diameter insulation         1,8 mm         Outer diameter folerance core insulation         4 3 ± 5 Shore D           Material properties wire insulation         43 ± 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 (Ventilstecker)  Installation   Cable  Cable identification 616  Cable Type 1  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  Cable weigth 61,6 g/m  Material yacket PVC  Shore hardness jacket PVC  Shore hardness jacket 80±5 Shore A  Freedom from ingredients (jacket) [sead-free, cadmium-free, CFC-free, silicone-free]  Outer-diameter (sheath) ± 5 %  Material wire insulation PVC  Amount wires 3  Outer diameter insulation 43±5 Shore D  Material properties wire insulation good machinability  Ingredient freeness wire insulation good machinability  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free	Additional condition temperature range	depending on cable quality
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 616  Cable Type 1  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  Cable weigth 61,6 g/m  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) 5,9 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PVC  Amount wires 3  Outer diameter insulation ± 5 %  Material properties wire insulation good machinability  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free	Important installation notes	
endangered by excessive bending forces.  Conformity  Product standard DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilstecker)  Installation   Cable  Cable identification 616  Cable Type 1 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  Cable weigth 61,6 g/m  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) 5,9 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PVC  Amount wires 3  Outer diameter tolerance core insulation 43 ± 5 Shore D  Material properties wire insulation good machinability Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free	Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Product standard DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilistecker)    Installation   Cable	Note on bending radius	
Installation   Cable       Cable identification     616       Cable Type     1       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       Cable weigth     61,6 g/m       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)     5,9 mm       Tolerance outer diameter (sheath)     ± 5 %       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     lead-free, cadmium-free, CFC-free, silicone-free	Conformity	
Cable identification 616 Cable Type 1 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 Cable weigth 61,6 g/m 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) 5,9 mm  Tolerance outer diameter (sheath) ± 5 % 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 lead-free, cadmium-free, CFC-free, silicone-free	Product standard	DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilstecker)
Cable Type       1         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         Cable weigth       61,6 g/m         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)       5,9 mm         Tolerance outer diameter (sheath)       ± 5 %         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         Ingredient freeness wire insulation       lead-free, cadmium-free, CFC-free, silicone-free	Installation   Cable	
Cable Type     1       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       Cable weigth     61,6 g/m       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)     5,9 mm       Tolerance outer diameter (sheath)     ± 5 %       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       Ingredient freeness wire insulation     lead-free, cadmium-free, CFC-free, silicone-free	Cable identification	616
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  Cable weigth 61,6 g/m  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) 5,9 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PVC  Amount wires 3  Outer diameter rolerance core insulation ± 5 %  Shore hardness wire insulation 43 ± 5 Shore D  Material properties wire insulation good machinability  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free		1
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Printing color of wire insulation white (isolation black)		
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Amount strands (wire)	24
Diameter of single wires	0,2 mm
Conductor crosssection (wire)	0,75 mm²
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
Min. operating temperature (static)	-30 °C
Max. operating temperature (fixed)	70 °C
Operating temperature min. (dynamic)	-5 °C
Operating temperature max. (dynamic)	70 °C
UV resistance	DIN EN ISO 4892-2 A
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