

## M12 male 90° A-cod. / MSUD valve plug C-8mm

PVC 3x0.75 bk 1m

Form C (8 mm) - M12, male 90° 24 V AC  $\pm 20\%$  / DC  $\pm 25\%$  LED and suppression

Further cable lengths on request.

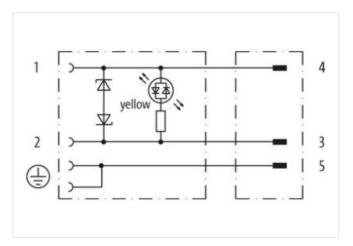
Plastic housings with good resistance against chemicals and oils.

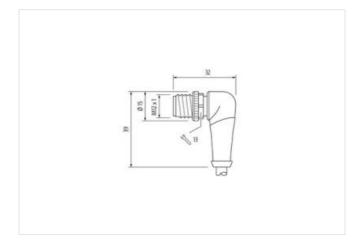
The resistance to aggressive media should be individually tested for your application. Further details on request.

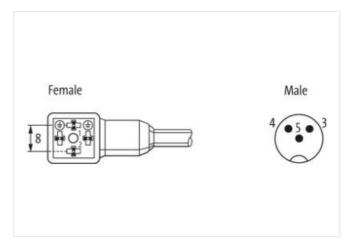
## **Link to Product**

## Illustration



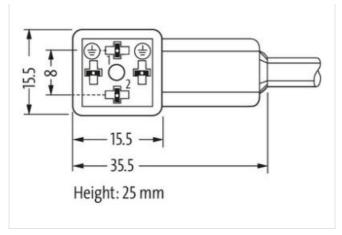








stay connected



Product may differ from Image



Cable length	1 m
Side 1	
Tightening torque	0,4 Nm
Family construction form	M12
Thread	M2.5
suitable for corrugated tube (internal Ø)	10 mm
Material	PUR
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP67
Side 2	
Tightening torque	0,6 Nm
Thread	M12 x 1
Material	PBT
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	4048879549370
Packaging unit	1
Electrical data	
Capacity CX	20 ms
Electrical data   Supply	
Operating voltage AC	24 V



stay connected

Operating voltage DC Operating voltage DC min.         19 V           Operating voltage DC min.         30 V           Operating voltage DC min.         30 V           Out-off peak voltage max.         35 V           Current operating voltage max.         4 A           Current operating voltage max.         2 Pm A           Diagnostics         V           Status indication LED         yellow           Political Deprecion of Electrical         Additional condition protection degree           Additional condition protection degree         3 Rader surge voltage           Multification group (LEC 00064-1)         1           Mechanical data Moterial data         V           Conting Ocking         Nokeled           Conting Ocking         Nokeled           Control pocking         Deak           Multifier group (Lectrical data Moterial		
Operating voltage DC Operating voltage DC min.         19 V           Operating voltage DC min.         30 V           Operating voltage DC min.         30 V           Out-off peak voltage max.         35 V           Current operating voltage max.         4 A           Current operating voltage max.         2 Pm A           Diagnostics         V           Status indication LED         yellow           Political Deprecion of Electrical         Additional condition protection degree           Additional condition protection degree         3 Rader surge voltage           Multification group (LEC 00064-1)         1           Mechanical data Moterial data         V           Conting Ocking         Nokeled           Conting Ocking         Nokeled           Control pocking         Deak           Multifier group (Lectrical data Moterial	Operating voltage AC min.	19,2 V
Operating voltage DC min.         18 Y           Our off peak voltage max.         55 V           Our off peak voltage max.         55 V           Current consumption max.         12 mA           Diagnostics	Operating voltage AC max.	28,8 V
Operating variage DC max. 58 V Current operating per contact max. 4A Current consumption max. 12 Pa A Current consumption max. 12 Pa C Current consumption max. 12 Pa C Current constrain relied Protect file connectors by suitable measures from mechanical loads, e.g. by the usage of cable tess. 12 Pa C Current consumption max. 12		24 V
Current operating per contact max.         4 A           Current opparing per contact max.         12 mA           Diagnostics         Status indication LED         yellow           Device protection [Electrical         Very Commentation of Status indication protection degree         Insented, screwed           Pollution Degree         3 3         3           Ratiod surge vortage         0,8 kV           Material group (EC 80684-1)         I           Mechanical data [Material data]         Very Commentation of Status (Status Material pour Color bousing         black           Mechanical data [Mounting data         Zinc die-casting           Mechanical data [Mounting data         Insented, screwed           Environmental characteristics   Climatic         Coparating temperature mix.           Operating temperature mix.         25 °C           Operating temperature mix.         85 °C           Additional condition temperature mixes         depending on coble quality           Important institution (Cable Color Colo	Operating voltage DC min.	18 V
Current operating per contact max.         12 mA           Current consumption max.         12 mA           Diagnostics	Operating voltage DC max.	30 V
Current consumption max.         12 mA           Dispositios           Status indication LDD         yollow           Device protection   Electrical           Additional condition protection degree         Inserted, screwed           Publishor Degree         3           Plated surge voitage         0.8 NV           Material group (EC 806641)         1           Coating locking         Nickleded           Color housing         back           Material probability         Plassio           Locking material         Inserted, screwed           Mechanical data   Mounting data         Mounting method           Environmental characteristics   Climatic         Climatic           Operating temperature mix.         25 °C           Operating temperature mix.         85 °C           Additional condition temperature mix.         85 °C           Additional condition temperature mix.         85 °C           Note on sharing radius         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable loss.           Note on bending radius         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable loss.           Institution   Cable         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable loss.	Cut-off peak voltage max.	55 V
Diagnositics         Status indication LED         yellow           Device protection [Electrical]           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Facted surges voltage         0,8 kV           Material group (LEC 80864-1)         1           Mechanical data   Material data         Nickeled           Coating backing         Nickeled           Contry flowing         black           Material browsing         Plastic           Locking material         Zinc dise-easting           Mechanical data   Mounting data         Plastic           Mechanical data   Mounting data         Inserted, screwed           Environmental characteristics   Climatic         Commonstal characteristics   Climatic           Protecting temperature min.         25 °C           Operating temperature max.         85 °C           Additional condition temperature range         depending on cable quality           Note on strain retief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable (ide.)           Note on bending radius         Afterior: Observe the permissible bending radii when laying cables, as the IP protection class can be endanged by excessive bending forces.           Installation   Cable         Cable identification   Cable <td>Current operating per contact max.</td> <td>4 A</td>	Current operating per contact max.	4 A
Status indication LED  Perice protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated using groy (EC 60664 1)   I  Mechanical data   Material data  Metrial protein data   Material data  Metrial protein data   Material data  Metrial protein data   Material data  Losing material   Debug   D	Current consumption max.	12 mA
Device protection   Electrical         Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         0,8 kV           Material group (IEC 60664-1)         I           Mechanical data   Material data         Mickeled           Color housing         black           Mechanical data   Mounting data         Zinc die-casting           Mechanical Machine   Mounting data         Inserted, screwed           Mechanical data   Mounting data         Mickeled costing           Mechanical data   Mounting data         Inserted, screwed           Mechanical data   Mounting data         Passic           Deparating temperature min.         -25 °C           Operating temperature max.         85 °C           Additional condition temperature range depending on cable quality           Important installation notes         Note on strain relief           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.           Installation   Cable         Cable identification           Cable identification         616           Cable identification         616           Cable identification         10 is served.           Stranding	Diagnostics	
Additional condition protection degree inserted, screwed  Pollution Degree 3 Rated surge voltage 0,8 kV  Material group (IEC 60684.1) 1  Mechanical data! Material data Coating locking	Status indication LED	yellow
Pollution Degree         3           Rated surge voitage         0,8 kV           Material group (IEC 60664-1)         1           Mechanical data   Material data         Nickeled           Color housing         black           Material boxing         Plastic           Locking material         Zinc die-casting           Mechanical data   Mounting data         Mechanical data   Mounting data           Mounting method         inserted, screwed           Environmental characteristics   Climatic         Coperating temperature min.           Operating temperature max.         35 °C           Operating temperature max.         35 °C           Operating temperature max.         35 °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 endangered by excessive bending forces.           Installation   Cable         Cable identification           Cable identification   Sile         16	Device protection   Electrical	
Rated surge voltage	Additional condition protection degree	inserted, screwed
Mechanical data   Material data   Mechanical data   Material data   Color housing black Material thousing Plastic Locking material toward   Mechanical data   Munting data   Methanical data   Munting data   Munting data   Munting data   Methanical data   Munting da	Pollution Degree	3
Mechanical data   Material data         Nickeled           Color housing         black           Material housing         Plastic           Locking material         Zinc die casting           Mechanical data   Mounting data         Inserted, screwed           Mechanical data   Mounting data         inserted, screwed           Environmental characteristics   Climatic         Environmental characteristics   Climatic           Operating temperature min.         -25 °C           Operating temperature max.         85 °C           Additional condition temperature range         depending on cable quality           Important installation notes         The condition of the condi	Rated surge voltage	0,8 kV
Color housing black Material housing Plastic Locking material Zinc die-casting  Mechanical data   Mounting data Mounting method inserted, screwed  Environmental Characteristics   Climatic Operating temperature min. 25° °C Operating temperature man. 25° °C Additional condition temperature range depending on cable quality  Important installation notes  Note on brain relief Protection attention: Observe the permissible bending radii when laying cables, as the IP protection diass can be ondaragered by excessive bending forces.  Installation   Cable   Cable identification   516 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 weigh   61.6 g/m Material jacket   PVC  Tolerance outer diameter (sheath)   5,9 mm Tolerance outer diameter (sheath)   5,9 mm Tolerance outer diameter (sheath)   5,9 mm Outer diameter (sheath)   43 ± 5 Shore D Material prodection wire insulation   43 ± 5 Shore D Material predient fireness wire insulation   43 ± 5 Shore D Material prodection wire insulation   42 ± 5 Shore D Material prodection wire insulation   42 ± 5 Shore D Material prodection wire insulation   42 ± 5 Shore D Material prodection wire insulation   42 ± 5 Shore D Material prodection wire insulation   42 ± 5 Shore D Material prodection wire insulation   42 ± 5 Shore D Material prodection wire insulation   42 ± 5 Shore D Material prodection wire insulation   42 ± 5 Shore D Material prodection wire insulation   42 ± 5 Shore D	Material group (IEC 60664-1)	I
Color housing black Material housing Plastic Locking material Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic Operating temperature min25 °C Operating temperature max. 85 °C Additional condition temperature max 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 ondargered by excessive bending forces.  Installation   Cable   Cable dentification   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 weight   61.6 g/m Material Jacket   PVC Shore hardness jacket   80 ± 5 Shore A Freedom from ingredients (facket)   6.5 % Material wire insulation   PVC Amount wires   3   Outer diameter (sheath)   £ 5 % Material wire insulation   43 ± 5 Shore D Material protection swire insulation   43 ± 5 Shore D Material protection swire insulation   43 ± 5 Shore D Material protection swire insulation   43 ± 5 Shore D Material protecties were insulation   900 machinability   Ingredient freeness wire insulation   Ingredient freeness wire insulation   900 machinability   Ingredient freeness wire insulation   900 machinability   Ingredient	Mechanical data   Material data	
Color housing black Material housing Plastic Locking material Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic Operating temperature min25 °C Operating temperature max. 85 °C Additional condition temperature max 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 ondargered by excessive bending forces.  Installation   Cable   Cable dentification   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 weight   61.6 g/m Material Jacket   PVC Shore hardness jacket   80 ± 5 Shore A Freedom from ingredients (facket)   6.5 % Material wire insulation   PVC Amount wires   3   Outer diameter (sheath)   £ 5 % Material wire insulation   43 ± 5 Shore D Material protection swire insulation   43 ± 5 Shore D Material protection swire insulation   43 ± 5 Shore D Material protection swire insulation   43 ± 5 Shore D Material protecties were insulation   900 machinability   Ingredient freeness wire insulation   Ingredient freeness wire insulation   900 machinability   Ingredient freeness wire insulation   900 machinability   Ingredient	Coating locking	Nickeled
Material housing Plastic Locking material Conting material Conting material Conting material Conting material Conting material Conting material 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 laying cables, as the IP protection class can be endangered by excessive bending forces.  Installation   Cable   Cable institution of wire insulation with (solation 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 1,1 mm  Outer diameter tolerance core insulation 45 ± 5 Shore D  Material properties wire insulation 1,2 mm  Guerdient freeness wire insulation 1, good machinability  Ingredient freeness wire insulation 1, g		
Locking material         Zinc die-casting           Mechanical data   Mounting data         Mounting method         inserted, screwed           Environmental characteristics   Climatic         Coperating temperature min.         2.5 °C           Operating temperature man.         85 °C           Additional condition temperature range         depending on cable quality           Important installation notes         Vote on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on bending radius         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Installation   Cable         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Installation   Cable         616           Cable Identification         616           Cable Identification         616           Cable Identification         616           Cable Identification         41           Printing color of wire insulation         white (solation black)           Jacket Color         black           Amount stranding         1           Stranding         3 wire stwisted           Wire arrangement         black 1, 6 g/m <t< td=""><td></td><td></td></t<>		
Mechanical 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.  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 weigh 61.6 g/m Material jacket PVC Shore hardness jacket PVC Shore hardness jacket 89 ± 5 Shore A Freedom from ingredents (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 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 Material properties wire insulation 43 ± 5 Shore D Material properties wire insulation 43 ± 5 Shore D		
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         Vote on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on bending radius         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Installation   Cable           Cable identification         616           Cable instinction         616           Cable view in 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)         1.6 destries, cadmium-free, CFC-free, silicone-free           Outer-diameter (jacket)         5.9 mm           Tolerance outer diameter (shea		
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.  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 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) 5,9 mm  Tolerance outer diameter (sheath) ± 5 %  Amount wires 3  Outer diameter insulation 1,8 mm  Outer diameter folerance core insulation 43 ± 5 Shore D  Material properties wire insulation 9 good machinability  Ingredient freeness wire insulation 9 good machinability  Ingredient freeness wire insulation 9 good machinability  Ingredient freeness wire insulation 1 lead-free, caffonium-free, CFC-free, silicone-free		incorted corowed
Operating temperature min.         -25 °C           Operating temperature max.         85 °C           Additional condition temperature range         depending on cable quality           Important installation notes         Volume           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.           Installation   Cable         616           Cable identification         616           Cable identification         41           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 %		
Operating temperature max.  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.  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 weight 61,6 g/m  Material jacket 80 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free  Outer-diameter (slacket) ± 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 lead-free, cadmium-free, CFC-free, silicone-free  Material properties wire insulation good machinability  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free		
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.  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 wisted 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 (sheath) ± 5 %  Material wire insulation PVC  Amount wires 3  Outer diameter insulation 1,8 mm  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		
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.           Installation   Cable         Cable identification         616           Cable identification         616         Cable identification (above)         Cable identification (above)           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)         80 ± 5 Shore A           Tolerance 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 insulation         ± 5 %           Sho		
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.           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 %           Shore hardness wire insulation         43 ± 5 Shore D           Material properties wire insulation         43 ± 5 Shore D           Mate		depending on cable quality
Note on bending radius         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           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 stranding         1,8 mm           Outer diameter insulation         1,8 mm           Outer diameter or insulation         43 ± 5 Shore D           Shore hardness wire insulation         43 ± 5 Shore D           Material properties wire insulation         lead-free, cadmium-free, CFC-free, silicone-free	Important installation notes	
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 (sheath) ± 5 % Material wire insulation PVC Amount wires 3 Outer diameter insulation ± 5 % Shore hardness wire insulation ± 5 % Shore hardness wire insulation good machinability Ingredient freeness 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.
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         good machinability           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, silicone-free	Note on bending radius	
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 (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 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 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 Type	
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		white (isolation 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		<u> </u>
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 43 ± 5 Shore D Material properties wire insulation good machinability Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free	Amount stranding	
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	Stranding	3 wires twisted
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	wire arrangement	black 1, black 2, green-yellow
Material jacketPVCShore hardness jacket80 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, silicone-freeOuter-diameter (jacket)5,9 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPVCAmount wires3Outer diameter insulation1,8 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation43 ± 5 Shore DMaterial properties wire insulationgood machinabilityIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, silicone-free	Cable weigth	
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	Material jacket	PVC
Outer-diameter (jacket)5,9 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPVCAmount wires3Outer diameter insulation1,8 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation43 ± 5 Shore DMaterial properties wire insulationgood machinabilityIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, silicone-free	Shore hardness jacket	80 ± 5 Shore A
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	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, silicone-free
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	Outer-diameter (jacket)	5,9 mm
Amount wires 3 Outer diameter insulation 1,8 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 43 ± 5 Shore D Material properties wire insulation good machinability Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free	Tolerance outer diameter (sheath)	± 5 %
Outer diameter insulation 1,8 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 43 ± 5 Shore D  Material properties wire insulation good machinability  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free	Material wire insulation	PVC
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	Amount wires	3
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	Outer diameter insulation	1,8 mm
Material properties wire insulation good machinability Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free	Outer diameter tolerance core insulation	± 5 %
Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free	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
	Printing color of wire insulation	white (isolation black)

The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-05-19



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