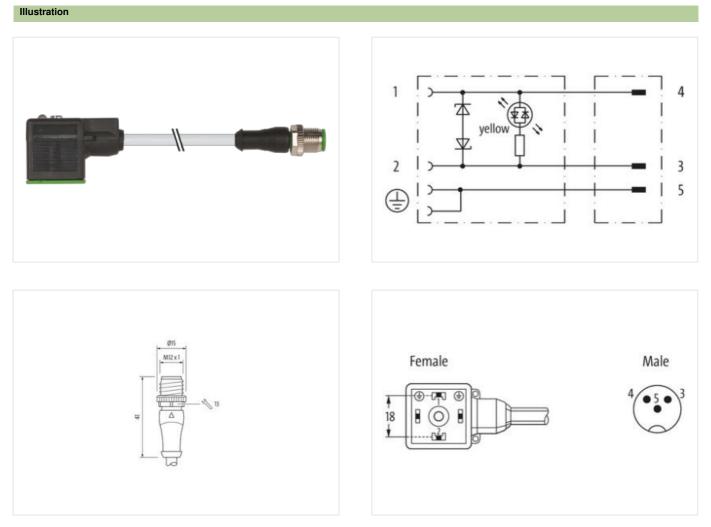


## M12 male 0° A-cod. / MSUD valve plug A-18mm

PVC 3x0.75 gy 1m

Form A (18 mm) – M12, male straight 24 V AC ±20% / DC ±25% LED and suppression Bridged PE A-coded 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.

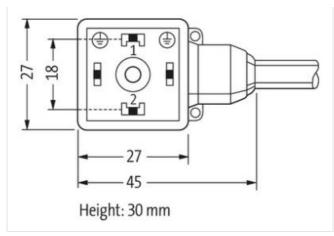
## Link to Product



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

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Product may differ from Image



Cable length	1 m
Side 1	
Tightening torque	0,4 Nm
Family construction form	M12
Thread	M3
suitable for corrugated tube (internal $\emptyset$ )	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-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0	27060311
ECLASS-10.1	27060312
ECLASS-11.1	27060312
ECLASS-12.0	27060312
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879152716
Packaging unit	1
Electrical data	
Drop-out delay time max.	20 ms
Electrical data   Supply	
Operating voltage AC	24 V
Operating voltage AC min.	19,2 V
Operating voltage AC max.	28,8 V

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Operating values DC min.     18 Y       Operating values DC max.     30 Y       Corrent operating and constant max.     4 A       Corrent operating on constant max.     15 mA       Description max.     16 mA       Description max.     10 market max.       Addition constition protection description     1       Material grass outges outges     0.4 kV       Material proteing     Platis       Control cousing     National cousing       Material proteing description     2 market, servered       Material grass outges out	Operating voltage DC	24 V
Operating voltage DC max.     30 V       Out off prask voltage max.     55 V       Current operating vortaket max.     15 mA       Descoperation     Status indication LED       Status indication LED     yellow       Device protection protection protection experiments     3       Rated surge voltage     3       Rated surge voltage     0,8 kV       Material group (EE 6564-1)     1       Mechanical data [Material data     Coaling locking       Coaling locking     Nickude       Coaling nameries     20nc dise-casing       Material gasket     PUR       Material gasket     PUR       Material gasket     Since       Diversing material     20nc dise-casing       Mouting material     Since Namerial		
Out-off peak voltage max.     95 Y       Current operating per constant max.     4 A       Current operating per constant max.     15 m A       Diagnottics     Status indication LED       Status indication LED     yellow       Device protection   Electrical     Additional condition protection degree       Additional condition protection degree     18 meritad, scrowed       Politation Dagree     3       Rated strains of the degree		
Current consumption max.     4 A       Current consumption max.     15 mA       Descreter.     State indication LED       State indication LED     yellow       Deverpreter.     State indication LED       Addimate condition protection degree     1.8 erfat, screwed       Publicion protection degree     0.8 kV       Material group (EC 60664-1)     1       Mechanica data (Material data)     Control data (Material data)       Control Legradia     Material group (EC 60664-1)       Mechanica data (Material data)     Material group (EC 60664-1)       Control Legradia     Material group (EC 60664-1)       Mechanica data (Material housing)     Nickled       Color housing     black       Material group (EC 60664-1)     Color housing       Material group (EC 60664-1)     I       Mechanica data (Material housing gravath)     Plack       Material gravath     PUR       Material gravath     PUR       Material gravath     PUR       Material data (Material housing gravath)     Basic       Portaling compreter max.     85 °C       Operating inscreter max.     85 °C <td></td> <td></td>		
Current consumption max.     15 mA       Diagnostics     yellow       Device protection   Electrical		
Diagnosis     Subus inclusion LED     yellow       Device protection   Electrical		
Statis indication LED     yellow       Devices top Electrical     Inserted, acrewed       Additional condition protoction degree     3       Raide storge voltage     0.8 kV       Material argonal (EC 60664-1)     1       Inserted, acrewed (EC 60674-1)     1       Material argonal (EC 60674-1)     1       Inserted, acrewed (EC 60674-1)     1       Material probability     Nickelod       Colorin fousing     Nickelod       Colorin fousing     Nickelod       Colorin fousing     PUR       Material probability     Colorin coloring       Material probability     Disole       Colorin moting     Disole       Colorin probability     Disole       Material probability     Disole       Colorin probability     Disole       Colorin probability     Disole       Colorin probability     Bisole       Material probability     Bisole       Colorin probability     Bisole       Colorin probability     Bisole       Colorin probability     Bisole       Colorin probability     Bisole		
Device protection   Electrical       Addination condition protection degree     inserted, screwed       Obliation Degree     3       Rated surge voltage     0,8 kV       Material group (EC 60664.1)     1       Dechanical data   Material data     Control oblig       Color housing     Black       Material group (EC 60664.1)     1       Devinition (EC 60664.1)     1       Material group (EC 60664.1)     1       Material group (EC 60664.1)     25 °C       Operating temperature max.     25 °C       Operating temperature max.     25 °C       Material group (EC 606		
Additional condition protoction degree     inserted, screwed       Pollution Degree     3       Reted surge voltage     0.8 kV       Meterial group (EC 60664-1)     1       Meterial group (EC 60664-1)     1       Meterial group (EC 60664-1)     1       Meterial position data     Nickeled       Coaring locking     Nickeled       Coaring locking     PUR       Meterial position data     PUR	Status indication LED	yellow
Pollution Degree     3       Rated surge voltage     0.8 kV       Material group (CE 60664-1)     1       Mechanical data   Material data     Coating (CE 60664-1)       Coating locking     Neckeld       Color housing     Diack /       Material pasket     PUR       Material housing     Plastic       Locking material     Zin die casting       Mechanical data   Mounting data     Inserted, screwed       Environmental characteristics   Climatic     Climatic       Operating temperature rank     85 °C       Additional condition temperature rank     85 °C       Additional condition temperature rank     85 °C       Additional condition temperature rank     85 °C       Note on strain rollel     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tises.       Note on strain rollel     Retefore: Observe the permissible bending radii when laying cables, as the IP protection class can be challed policita.       Insalizion Cable     216       Cable other insulation     216       Cable Or of Wrie insulation     216       Cable Or of Wrie insulation     38 °C       Jacket Color<	Device protection   Electrical	
Rieted surge voltage     0,8 kV       Material group (IEC 6064-1)     I       Mechanical data   Material data     Color housing     Nackeled       Color housing     Nackeled     Color housing       Material gasket     PUR     Material gasket       Methanical data   Mounting data     Zinc die-casting     Material housing       Methanical data   Mounting data     Environmental characteristics   Climatic     Color housing       Mounting methon     Inserted, screwed     Environmental characteristics   Climatic       Operating temperature min.     25 °C     Color Additional condition temperature range     depending on cable quality       Important installation notes     Si °C     Color housing and 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.       Installation ( Cable     Use arrangement     Back 1, black 2, green-yellow       Cable interfination     216     Cable interfination       Cable interfination     1     Stranding       Thind coctor of wrie insulation     Water kited     Wiee kited       Cable weight	Additional condition protection degree	inserted, screwed
Material group (EC 60664-1)     I       Mechanical data   Material data     Coating locking     Nickleds       Coating locking     Diack     Material space     PUR       Material pasket     PUR     Material pasket     EVR       Material pasket     PUR     Material pasket     Eventspace       Material pasket     Eventspace     Eventspace     Eventspace       Mounting temperature mark     Eventspace     Eventspace     Eventspace       Operating temperature mark     65 °C     Coadinal condition temperature mark     65 °C       Additional condition temperature mark     65 °C     Coadinal pasket     Eventspace       Important installation notes     Adopter of the connectors by suitable measures from mechanical loads, e.g. by the usage of cable lifes.       Not on bending radius     Atterial stock 1, black 2, green yellow     Cable iontification     216       Cablo fortification     216     Cab	Pollution Degree	3
Mechanical data   Material data       Coating locking     Nickeled       Color housing     black       Material gaska     PUR       Material gaska     Pure       Mounting method     inserted, screwed       Envertain temperature min.     -25 °C       Operating temperature max.     85 °C       Additional condition temperature may     depending on cable quality       Installation Cobt     Retroin: Observe the permissible bending radi when laying cables, as the IP protection class can be endangered by accessive bending forces.       Installation Cable     Back 1, black 2, green-yellow       Cable Type     1       Printing color of wire insulation     white (isolation black)	Rated surge voltage	0,8 kV
Colaring locking     Nickeled       Color housing     black       Material gaskat     PUR       Material lossing     Plasto       Locking material     Zino die-casting       Mounting method     insorted, screwed       Environmential characteristics   Climatic     Color housing       Operating temperature max.     85 °C       Additional condition temperature may.     485 °C       Additional condition temperature may.     85 °C       Additional condition temperature may.     85 °C       Installation codition     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tess.       Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tess.       Attention: Observe the permissible bending radiu when laying cables, as the iP protection class can be ending radiu when laying cables, as the iP protection class can be ending radiu when laying cables, as the iP protection class can be ending radius       Lobel conditicaton <td< td=""><td>Material group (IEC 60664-1)</td><td></td></td<>	Material group (IEC 60664-1)	
Color housing     black       Material pasket     PUR       Material pasket     PUR       Material space     Zinc die-casing       Mechanical data   Mounting data     Inserted, screwed       Environmental characteristics   Climatic     Coperating temperature max.       Operating temperature max.     85 °C       Additional condition temperature max.     85 °C       Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Note on bending radius     Attention: Observe the permissible bending facil when laying cables, as the IP protoction class can be endingered by excessive bending forces.       Installation   Cable        wire arrangement     black 1, black 2, green-yellow       Cable forpe     1       Printing color of wire insulation     white (isolation black)       Jacket Color     gray       Amount stranding     1       Stranding     3 wire	Mechanical data   Material data	
Material gasket     PUR       Material housing     Plastic       Locking material     Zinc die-casting       Mechanical data   Mounting data     Incertain discrete 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.       Note on bending radius     Attention: Observice the pormissible bonding radii when laying cables, as the IP protection class can be endangered by excessive bending forces.       Installation   Cable     View arrangement     black 1, black 2, green-yellow       Cable identification     216     Cable identification     236       Cable identification     216     Cable identification     216       Stranding     1     Stranding     1     Stranding     3 wires twisted       Weire arrangement     black 1, black 2, green-yellow     Cable weight     53.8 g/m     Strandin	Coating locking	Nickeled
Material gasket     PUR       Material housing     Plastic       Locking material     Zinc die-casting       Mechanical dia   Mounting data     Mounting method       Mounting method     inserted, screwed       Environmental characteristics   Climatic     Operating temperature min.     -25 °C       Operating temperature min.     -25 °C     Operating temperature may.     45 °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 strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. as the IP protection class can be endangered by excessive bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.       Installation   Cable     Weire arrangement       black 1, black 2, green-yellow     Cable identification       Cable identification     216       Cable identification     216       Cable of wire insulation white (isolation black)     Jaacket Color       gray     andure tstranding     1       Stranding     3 wires twisted     Sires twisted		black
Material housing     Plastic       Locking material     Zinc die-casting       Mechanical 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 quelity       Important installation notes     Important installation notes       Note on stain 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 bonding radii when laying cables, as the IP protection class can be endangered by excessive bending forces.       Installation   Cable     View arrangement     black 1, black 2, green yellow       Cable forpe     1     Printing color of wire insulation     white (isolation black)       Jacket Color     gray     Amount stranding     1       Stranding     3 wires twisted     View arrangement     black 1, black 2, green yellow       Cable forpe     1     Stranding     1     Stranding     1       Printing color of wire insulation     white (isolation black)     Jacket Color     Stranding		
Locking material     Zinc die-casting       Mechanical data   Mounting data     Inserted, screwed       Environmental characteristics   Climatic     Operating temperature min.     -25 ° C       Operating temperature max.     85 °C     Additional condition temperature max.     85 °C       Additional condition temperature max.     85 °C     Additional condition temperature max.     85 °C       Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Note on strain relief     Protection class can be endangered by excessive bending fractions.       Material pace     Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending fractions.       Type:     Type:     Type:       Write arrangement		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 may.     65 °C       Additional condition temperature may.     85 °C     Additional condition temperature may.     64 pending 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 strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Installation [ Cable     Meterion: Observe the permissible bending radii when laying cables, as the IP protection class can be endingered by excessive bending forces.       Installation [ Cable     Usack 1, black 2, green-yellow       Cable figer     1       Printing color of wire insulation     white (isolation black)       Jacket Color     gray       Amount stranding     1       Stranding     3 wires twisted       wire arrangement     black 1, black 2, green-yellow       Cable weight     63.8 g/m       Material jacket     PVC	5	Zinc die-casting
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 stain relief       Note on stain 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 endangement       black 1, black 2, green-yellow     Cable identification       Cable identification     216       Cable identification     216       Cable identification     gray       Amount stranding     1       Stranding     3 wires twisted       wire arrangement     black 1, black 2, green-yellow       Cable weight     63.8 g/m       Material jacket     PVC       Stranding     3 wires twisted       wire arrangement     black 1, black 2, green-yellow       Cable weight     63.8 g/m       Material jacket     PVC       Store hardness jacket	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 strin relief       Note on strin 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     write arrangement       black 1, black 2, green-yellow     Cable identification       Cable identification     216       Cable for the insulation     white (isolation black)       Jacket Color     gray       Amount stranding     1       Stranding     3 wires twisted       wire arrangement     black 1, black 2, green yellow       Cable weigh     63.8 grm       Cable weigh     63.8 grm       Material jacket     PVC       Shore hardness jacket     80 ± 5 Shore A       Freedom from ingredients (jacket)     lead-free, cadmium-free, CFC-free, silicone-free       Outer diame		inserted screwed
Operating temperature min.   -25 °C     Operating temperature max.   85 °C     Additional condition temperature range   depending on cable quality     Important installation notes   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable 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.     Installation   Cable   wire arrangement     black 1, black 2, green-yellow   Cable Type     Cable Type   1     Printing color of wire insulation   white (isolation black)     Jacket Color   gray     Amount stranding   1     Stranding   3 wires twisted     wire arrangement   black 1, black 2, green-yellow     Cable weigh   63.8 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 (lacket)   5.9 mm     Tolerance outer diameter (sheath)   1.5 %	č	inserteu, scieweu
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 strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       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     View arrangement       Dale (Jule I)     Dele (Jentification       Cable Type     1       Printing color of wire insulation     white (isolation black)       Jacket Color     gray       Amount stranding     1       Stranding     3 wires twisted       wire arrangement     black 1, black 2, green-yellow       Cable weigth     63.8 g/m       Material jacket     PVC       Shore hardness jacket     80 ± 5 Shore A       Freedom from ingredients (jacket)     1ead-free, cadmium-free, CFC-free, silicone-free       Outer diameter (isolation     1,8 mm       Outer diameter insulation     1,8 m	·	
Additional condition temperature range     depending on cable quality       Important installation notes     Events of the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Installation   Cable     Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.       Installation   Cable     Use of the installation       wire arrangement     black 1, black 2, green-yellow       Cable identification     216       Cable Type     1       Printing color of wire insulation     white (isolation black)       Jacket Color     gray       Amount stranding     1       Stranding     3 wires twisted       wire arrangement     black 1, black 2, green-yellow       Cable weigth     63.8 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 %		
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     ####################################	· · ·	
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     Understand     Date of the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.       Installation   Cable     Understand     Date of the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.       Installation   Cable     Understand     Date of the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.       Installation   Cable     Understand     Date of the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.       Installation   Cable     Understand     Date of the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.       Installation   Cable     Understand     Date of the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.       Installation   Date of the permissible bending radii when laying cables as the isolation black in the permissible bending radii when laying cables as the isolation black in the permissible bending radii when laying cables as	Additional condition temperature range	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       wire arrangement     black 1, black 2, green-yellow       Cable identification     216       Cable Type     1       Printing color of wire insulation     white (isolation black)       Jacket Color     gray       Amount stranding     1       Stranding     3 wires twisted       wire arrangement     black 1, black 2, green-yellow       Cable weigth     63,8 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 insulation     1,8 mm       Outer diameter insulation     1,8 mm       Outer diameter insulation     43 ± 5 Shore D       Material proper	Important installation notes	
Installation   Cable     wire arrangement   black 1, black 2, green-yellow     Cable identification   216     Cable identification   216     Cable Type   1     Printing color of wire insulation   white (isolation black)     Jacket Color   gray     Amount stranding   1     Stranding   3 wires twisted     wire arrangement   black 1, black 2, green-yellow     Cable weigth   63.8 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 insulation   43 ± 5 Shore D     Material properties wire insulation   43 ± 5 Shore D     Material properties 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.
wire arrangementblack 1, black 2, green-yellowCable identification216Cable identification1Printing color of wire insulationwhite (isolation black)Jacket ColorgrayAmount stranding1Stranding3 wires twistedwire arrangementblack 1, black 2, green-yellowCable weigth63,8 g/mMaterial jacketPVCShore hardness jacket80 ± 5 Shore AFreedom from ingredients (jacket)5,9 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPVCAmount wires3Outer diameter insulation1,8 mmOuter diameter insulation1,8 mmOuter diameter insulation43 ± 5 Shore DMaterial properties wire insulation43 ± 5 Shore DMaterial properties wire insulation43 ± 5 Shore DMaterial properties wire insulationi.4 ± 5 %Shore hardness wire insulationi.8 cmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulationi.8 cmOuter diameter tolerance wire insulationi.8 topShore hardness wire insulationi.8 topShore hardness wire insulationi.9 ± 5 Shore DMaterial properties wire insulationi.9 ± 5 Shore DMaterial properties wire insulationi.ead-free, cadmium-free, CFC-free, silicone-free	Note on bending radius	
Cable identification216Cable Type1Printing color of wire insulationwhite (isolation black)Jacket ColorgrayAmount stranding1Stranding3 wires twistedwire arrangementblack 1, black 2, green-yellowCable weigth63.8 g/mMaterial jacketPVCShore hardness jacket80 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, silicone-freeOuter-diameter (jacket)5,9 mmTolerance outer diameter (sheath)± 5 %Material wire insulation1,8 mmOuter diameter tolerance core insulation1,8 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation43 ± 5 Shore DMaterial properties wire insulation43 ± 5 Shore DMaterial properties wire insulationlead-free, cadmium-free, CFC-free, silicone-free	Installation   Cable	
Cable Type1Printing color of wire insulationwhite (isolation black)Jacket ColorgrayAmount stranding1Stranding3 wires twistedwire arrangementblack 1, black 2, green-yellowCable weigth63,8 g/mMaterial jacketPVCShore hardness jacket80 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, silicone-freeOuter-diameter (jacket)5,9 mmTolerance outer diameter (sheath)± 5 %Material wire insulationNVCAmount wires3Outer 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	Installation   Cable	
Printing color of wire insulation   white (isolation black)     Jacket Color   gray     Amount stranding   1     Stranding   3 wires twisted     wire arrangement   black 1, black 2, green-yellow     Cable weigth   63,8 g/m     Material jacket   PVC     Shore hardness 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   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		black 1, black 2, green-yellow
Printing color of wire insulation   white (isolation black)     Jacket Color   gray     Amount stranding   1     Stranding   3 wires twisted     wire arrangement   black 1, black 2, green-yellow     Cable weigth   63,8 g/m     Material jacket   PVC     Shore hardness 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   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	
Amount stranding1Stranding3 wires twistedwire arrangementblack 1, black 2, green-yellowCable weigth63,8 g/mMaterial jacketPVCShore hardness jacket80 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, silicone-freeOuter-diameter (jacket)5,9 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPVCAmount wires3Outer diameter tolerance core insulation1,8 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation43 ± 5 Shore DMaterial properties wire insulationgood machinabilityIngredient freeness wire insulationlead-free, CFC-free, silicone-free	wire arrangement Cable identification	216
Stranding3 wires twistedwire arrangementblack 1, black 2, green-yellowCable weigth63,8 g/mMaterial jacketPVCShore hardness jacket80 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, silicone-freeOuter-diameter (jacket)5,9 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPVCAmount wires3Outer diameter tolerance core insulation1,8 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation43 ± 5 Shore DMaterial properties wire insulationgood machinabilityIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, silicone-free	wire arrangement Cable identification Cable Type	216 1
wire arrangementblack 1, black 2, green-yellowCable weigth63,8 g/mMaterial jacketPVCShore hardness jacket80 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, silicone-freeOuter-diameter (jacket)5,9 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPVCAmount wires3Outer diameter insulation1,8 mmOuter diameter insulation± 5 %Shore hardness wire insulation43 ± 5 Shore DMaterial properties wire insulationgood machinabilityIngredient freeness wire insulationlead-free, CFC-free, silicone-free	wire arrangement Cable identification Cable Type Printing color of wire insulation	216 1 white (isolation black)
Cable weigth63,8 g/mMaterial jacketPVCShore hardness jacket80 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, silicone-freeOuter-diameter (jacket)5,9 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPVCAmount wires3Outer diameter tolerance core insulation1,8 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation43 ± 5 Shore DMaterial properties wire insulationgood machinabilityIngredient freeness wire insulationlead-free, cAdmium-free, CFC-free, silicone-free	wire arrangement Cable identification Cable Type Printing color of wire insulation Jacket Color	216 1 white (isolation black) gray
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 tolerance core insulation1,8 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation43 ± 5 Shore DMaterial properties wire insulationgood machinabilityIngredient freeness wire insulationlead-free, CFC-free, silicone-free	wire arrangement Cable identification Cable Type Printing color of wire insulation Jacket Color Amount stranding	216 1 white (isolation black) gray 1
Shore hardness jacket80 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, silicone-freeOuter-diameter (jacket)5,9 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPVCAmount wires3Outer diameter tolerance core 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	wire arrangement Cable identification Cable Type Printing color of wire insulation Jacket Color Amount stranding Stranding	216   1   white (isolation black)   gray   1   3 wires twisted
Freedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, silicone-freeOuter-diameter (jacket)5,9 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPVCAmount wires3Outer diameter insulation1,8 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation43 ± 5 Shore DMaterial properties wire insulationgood machinabilityIngredient freeness wire insulationlead-free, cAdmium-free, CFC-free, silicone-free	wire arrangement Cable identification Cable Type Printing color of wire insulation Jacket Color Amount stranding Stranding wire arrangement	216     1     white (isolation black)     gray     1     3 wires twisted     black 1, black 2, green-yellow
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	wire arrangement Cable identification Cable Type Printing color of wire insulation Jacket Color Amount stranding Stranding wire arrangement Cable weigth	216     1     white (isolation black)     gray     1     3 wires twisted     black 1, black 2, green-yellow     63,8 g/m
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 Cable identification Cable Type Printing color of wire insulation Jacket Color Amount stranding Stranding wire arrangement Cable weigth Material jacket	216     1     white (isolation black)     gray     1     3 wires twisted     black 1, black 2, green-yellow     63,8 g/m     PVC
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 Cable identification Cable Type Printing color of wire insulation Jacket Color Amount stranding Stranding wire arrangement Cable weigth Material jacket Shore hardness jacket	216     1     white (isolation black)     gray     1     3 wires twisted     black 1, black 2, green-yellow     63,8 g/m     PVC     80 ± 5 Shore A
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 Cable identification Cable Type Printing color of wire insulation Jacket Color Amount stranding Stranding wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket)	216     1     white (isolation black)     gray     1     3 wires twisted     black 1, black 2, green-yellow     63,8 g/m     PVC     80 ± 5 Shore A     lead-free, cadmium-free, CFC-free, silicone-free
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 Cable identification Cable Type Printing color of wire insulation Jacket Color Amount stranding Stranding wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket)	216     1     white (isolation black)     gray     1     3 wires twisted     black 1, black 2, green-yellow     63,8 g/m     PVC     80 ± 5 Shore A     lead-free, cadmium-free, CFC-free, silicone-free     5,9 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 Cable identification Cable Type Printing color of wire insulation Jacket Color Amount stranding Stranding wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath)	216     1     white (isolation black)     gray     1     3 wires twisted     black 1, black 2, green-yellow     63,8 g/m     PVC     80 ± 5 Shore A     lead-free, cadmium-free, CFC-free, silicone-free     5,9 mm     ± 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 Cable identification Cable Type Printing color of wire insulation Jacket Color Amount stranding Stranding wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation	216     1     white (isolation black)     gray     1     3 wires twisted     black 1, black 2, green-yellow     63,8 g/m     PVC     80 ± 5 Shore A     lead-free, cadmium-free, CFC-free, silicone-free     5,9 mm     ± 5 %     PVC
Material properties wire insulation good machinability   Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free	wire arrangement Cable identification Cable Type Printing color of wire insulation Jacket Color Amount stranding Stranding wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires	216     1     white (isolation black)     gray     1     3 wires twisted     black 1, black 2, green-yellow     63,8 g/m     PVC     80 ± 5 Shore A     lead-free, cadmium-free, CFC-free, silicone-free     5,9 mm     ± 5 %     PVC     3
Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free	wire arrangement Cable identification Cable Type Printing color of wire insulation Jacket Color Amount stranding Stranding wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires Outer diameter insulation	216     1     white (isolation black)     gray     1     3 wires twisted     black 1, black 2, green-yellow     63,8 g/m     PVC     80 ± 5 Shore A     lead-free, cadmium-free, CFC-free, silicone-free     5,9 mm     ± 5 %     PVC     3     1,8 mm
	wire arrangement Cable identification Cable Type Printing color of wire insulation Jacket Color Amount stranding Stranding wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires Outer diameter insulation Outer diameter tolerance core insulation	216     1     white (isolation black)     gray     1     3 wires twisted     black 1, black 2, green-yellow     63,8 g/m     PVC     80 ± 5 Shore A     lead-free, cadmium-free, CFC-free, silicone-free     5,9 mm     ± 5 %     PVC     3     1,8 mm     ± 5 %
Drinting color of wire insulation white (isolation block)	wire arrangement Cable identification Cable Type Printing color of wire insulation Jacket Color Amount stranding Stranding wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires Outer diameter insulation Outer diameter tolerance core insulation Shore hardness wire insulation	216     1     white (isolation black)     gray     1     3 wires twisted     black 1, black 2, green-yellow     63,8 g/m     PVC     80 ± 5 Shore A     lead-free, cadmium-free, CFC-free, silicone-free     5,9 mm     ± 5 %     PVC     3     1,8 mm     ± 5 %     43 ± 5 Shore D
Printing color of wire insulation white (isolation black)	wire arrangement Cable identification Cable Type Printing color of wire insulation Jacket Color Amount stranding Stranding wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires Outer diameter insulation Outer diameter tolerance core insulation Shore hardness wire insulation Material properties wire insulation	216     1     white (isolation black)     gray     1     3 wires twisted     black 1, black 2, green-yellow     63,8 g/m     PVC     80 ± 5 Shore A     lead-free, cadmium-free, CFC-free, silicone-free     5,9 mm     ± 5 %     PVC     3     1,8 mm     ± 5 %     43 ± 5 Shore D     good machinability

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

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Amount strands (wire)	24
Diameter of single wires	0,2 mm
Conductor crosssection (wire)	0,75 mm <sup>2</sup>
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	Strand class 5
Max. rated voltage (conductor - conductor)	500 V
Max. rated voltage (conductor - ground)	300 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	12 A
Electrical resistance line constant wire	26 Ω/km @ 20 °C
AC withstand voltage (wire - wire)	3 kV @ 60 s
Power frequency withstand voltage (wire - jacket)	3 kV @ 60 s
Min. operating temperature (static)	-30 °C
Max. operating temperature (fixed)	70 °C
Operating temperature min. (dynamic)	-5 °C
Operating temperature max. (dynamic)	70 °C
Flame resistance	UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2
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

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