

## MSUD valve plug A-18mm with cable V4A

PVC 3x0.75 bk 2m

Art.No.: 7004-18061-6160200

Weight: 0.16

Country of origin: CZ

Model designation: MSUDK-AB4X-616\_2.0-S04

MSUD Form A (18 mm) 230 V AC/DC ±10% LED and suppression Stainless steel 1.4578 (V4A)

Further cable lengths on request.

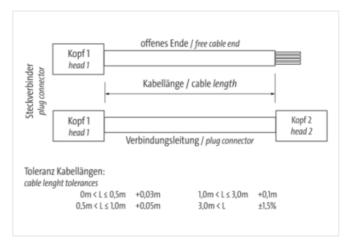
Plastic housings with good resistance against chemicals and oils.

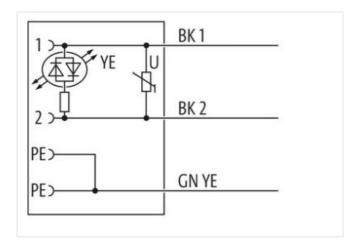
The resistance to aggressive media should be individually tested for your application. Further details on request.

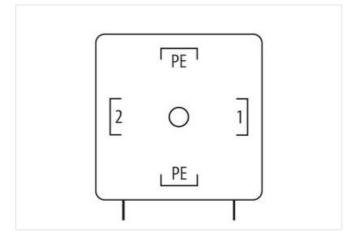
## **Link to Product**

## Illustration



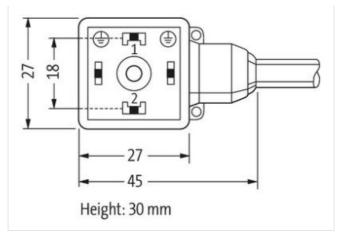








stay connected



Product may differ from Image



Cable length	2 m
Side 1	
Tightening torque	0,4 Nm
Mounting method	inserted, screwed
Family construction form	MSUD
Thread	M3
No. of poles	3
Degree of protection (EN IEC 60529)	IP67
Side 2	
Stripping length (jacket)	50 mm
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
customs tariff number	85444290
EAN	4048879730471
EAN	4048879730471
Packaging unit	1
Packaging unit	1
Electrical data   Supply	
Operating voltage AC	230 V
Operating voltage AC min.	207 V
Operating voltage AC max.	253 V
Operating voltage DC	230 V
Operating voltage DC min.	207 V
Operating voltage DC max.	253 V

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: 2025-07-12



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Disposition         Solution (Inclination LED politor)         yellow (Incitabilation) (Connection)           Entity (Incitabilation) (Connection)         Solution (Incitabilation) (Connection)           Device protection (Illectrical)         Solution (Incitabilation) (Incitabilation)           Additional condition protection degree         Incested (Incitabilation)           Pollution Degree         3           Read surge on (IEC 60664-1)         1           Mechanical data [Malerial data)         BET           Color housing         Discillation (Incitabilation)           Environmental characterialize [Climatic Coloring)         Discillation (Incitabilation)           Certain group emperature min.         25 °C           Additional condition temporature range         depending on cable quality           Important institution notes         85 °C           Additional condition temporature range         45 °C           Note on sharing radius         Protect the connections by suitable measures from mechanical loads, e.g. by the usage of cable less.           Note on sharing radius         Protect the connections by suitable measures from mechanical loads, e.g. by the usage of cable less.           Relation (Cabb)         Protect the connections by suitable measures from mechanical loads, e.g. by the usage of cable less.           Relation (Cabb)         Protect the cable measures in the lation of the cable measures from me	Current operating per contact max.	4 A
Installation   Connection  Stripping proget (sucked)  Sort provice protection   Electrical  Additional condition protection degree  Additional condition protection degree  Follution Degree  Saretate surge voltage  4 kV  Meterial group (EC 80864-1)  Mechanical data   Material data  Meterial prouping   ER 80864-1)  Mechanical data   Material data  Meterial prouping   ER 80864-1)  Mechanical data   Material data  Meterial prouping   ER 80864-1)  Mechanical data   Material data  PBT  Color lousing  Department characteristics   Climatic  Coveraging perspecture mix.  25 °C C  Additional condition temperature range  depending on cable quality  Important installation notes  Note on strain entire  Note on tenning radius  Attentions: Coserve the permissible benuffung radii when laying cables, as the IP protection class can be enclapsured by excessive bending forces.  Installation   Cable  with a strain field  Protect the connection by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Note on tenning radius  Attentions: Coserve the permissible benuffung radii when laying cables, as the IP protection class can be enclapsured by excessive bending forces.  Installation   Cable  with a strain field  Protect the connection by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Note on tenning radius  Attentions: Coserve the permissible benuffung radii when laying cables, as the IP protection class can be enclapsured by excessive bending forces.  Installation   Cable  with extraction   Cable  with a strainfaction   Cable  with a strainfaction   Cable  with a strainfaction   Cable  with a strainfaction   Cable  Annount traineding   Siles   Cable Siles	Diagnostics	
Installation   Connection  Stripping length (lacked) 50 mm  Provice protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3  Ratiods surge voilage 4 kV  Material group (IEC 80684-1) I  Mechanical data   Material data  Mechanical data   Material data  Mechanical data   Material data  Mechanical data   Material data  Stanless steel 1.4578 (V4A)  Environmental characteristics   Climatu  Coperating lempenature max. 95 °C  Additional condition temperature range depending on cable quality  Important Installation notes  Note on strain relate  Note on strain relate  Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable fies.  Installation   Cable  was arrangement data  Cable definition of vivin installation  Additional cord vivin installation  Additional cord vivin installation  Additional cord vivin installation  Annount stranding  1  Firefining color of wivin installation  Annount stranding  1  Firefining color of vivin installation  Annount stranding  3  **West existed  Annount stranding  4  Firefining color of vivin installation  Annount stranding  5  Firefining color of vivin installation  Annount stranding  5  Firefining color of vivin installation  Annount stranding  6  Firefining color of vivin installation  Annount stranding  6  Firefining color of vivin installation  Annount stranding  7  Firefining color of vivin installation  Annount stranding  Annount	Status indication LED	yellow
Stripping length (lacket)         50 mm           Device protection   Electrical           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         4 kV           Mechanical data   Material data         Material group (IEC 60664-1)         I           Material Poucing (IEC 60664-1)         P8T           Color housing         DBack           Locking material         Stainless steel 1.4578 (V4A)           Environmental characteristics Climate           Environmental characteristics Climate           Coperating temperature min.         25 °C           Operating temperature mana         85 °C           Additional condition temperature range         85 °C           Important installation notes         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable lines.           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable lines.           Installation   Cable         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable lines.           Nate on brain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable lines.           Nate arrangement         black 1, black 2, green-yellow	Installation   Connection	
Device protection   Electrical   Additional condition protection degree   September   Se		50 mm
Additional condition protection degree inserted, screwed  Pollution Degree 3  Raded surge votage 4 kV  Meternal group (EC 60664-1) I  Mechanical data Material data  Material possing PBT  Color housing black Locking material Environmental characteristics (Climatic  Perturbing imperiative min. 28 °C  Operating temperature min. 28 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cabile quality  Important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cabile tes.  Note on bending radius and the protection of the connectors by suitable measures from mechanical loads, e.g. by the usage of cabile tes.  Note on bending radius and the protection of the connectors by suitable measures from mechanical loads, e.g. by the usage of cabile tes.  Note on bending radius and the protection of the connectors by suitable measures from mechanical loads, e.g. by the usage of cabile tes.  Note on bending radius and the protection of the connectors by suitable measures from mechanical loads, e.g. by the usage of cabile tes.  Note on bending radius when laying cabilos, as the IP protection class can be endangered by excessive bending fradii when laying cabilos, as the IP protection class can be endangered by excessive bending fradii when laying cabilos, as the IP protection class can be endangered by excessive bending fradii when laying cabilos, as the IP protection class can be endangered by excessive bending fradii when laying cabilos, as the IP protection class can be endangered by excessive bending fradii when laying cabilos, as the IP protection class can be endangered by excessive bending fradii when laying cabilos, as the IP protection class can be endangered by excessive bending fradii when laying cabilos, as the IP protection class can be endangered by excessive bending fradii when laying cabilos, as the IP protection class can be endangered by excessive bending fradii when laying cabilos, as the IP prote		30 11111
Palud on Degree 3 Rated surge voltage 4 k NV Material group (IEC 60664-1) I  Mechanical data   Material data Material flousing PBT Coore housing black Locking material State   Material data Material proups   Dear   Coore housing black Locking material State   Stanless steel 1.4578 (V4A)  Environmental characteristics   Climatic  Environmental characteristics   Climatic  Poperating temperature min. 25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Important installation notes  Note on strain relief Protection class can be endanged by excessive bending forces.  Installation   Gable  wire arrangement Black 1, black 2, green-yellow  Cable identification 616  Cable Type 1  Printing color of wire insulation with i		
Reted sugs voltage Material group (IEC 806841) I Mechanical data	· · · · · · · · · · · · · · · · · · ·	
Material group (IEC 60664-1)         I           Mechanical data   Material data           Material brossing         PBT           Color housing         black           Locking material         Stainless steel 1.4578 (V4A)           Environmental characteristics   Climate           Operating temperature min.         -25 °C           Operating temperature max.         85 °C           Additional condition temperature max.         85 °C           Motion on strain relief         Protect the connectors by suitable measures from mechanical leads, e.g. by the usage of cable ties.           Note on strain relief         Protect the connectors by suitable measures from mechanical leads, 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 diass can be endangered by excessive bending forces.           Installation   Cable         Attention: Observe the permissible bending radii when laying cables, as the IP protection diass can be endangered by excessive bending forces.           Installation   Cable         Back 1, black 2, green-yellow           Cable Type         1           Printing color of wire insulation         4 black 1, black 2, green-yellow           Cable weight         61.6 gm           Abstrail placet         PVC           Shore hardness jacket         PVC     <		
Material housing PBT Color housing black Color housing black Cocking material Stainless steel 1.4578 (V4A)  Environmental characteristics   Climatic Operating temperature min. 25° °C Additional condition temperature range depending on cable quality Important installation notes  Viole on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. Note on strain relief Attentions Cobserve 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   616 Cable installation   1 Printing color of wire insulation   white (isolation black) Jacket Color Able wild   1 Stranding   1 Stranding   3 wires twisted   Wire arrangement   black 1, black 2, green-yellow   Cable weigh   616 g/m Material jacket   PVC   Shove hardness jacket   PVC   Material jacket   PVC   Material jacket   PVC   Material jacket   PVC   Amount stranding   60 g/m Material jacket   PVC   Amount wires   80 g/m   Material wire insulation   1,8 mm   Tolerance outer diameter (lacket)   5,9 mm   Tolerance outer diameter (sheath)   1,8 mm   Tolerance outer diameter (sheath)   1,8 mm   Material wire insulation   PVC   Amount wires   3 Couter diameter insulation   1,8 mm   Material wire insulation   9 pvc   Amount wires   3   Outer diameter insulation   1,8 mm   Tolerance outer diameter (sheath)   1,8 mm   Tolerance outer diameter (sheath)   1,8 mm   Tolerance outer diameter (sheath)   2,5 %   Shore hardness wire insulation   1,8 mm   Tolerance outer diameter (sheath)   2,5 mm   Tolerance outer diam		
Material housing black Date Color housing black Desired Freedom from ingredients (Satisfes steel 1.4578 (V4A)  Environmental characteristics   Climatic Coperating temperature min. 25 °C Operating temperature max. 85 °C Operating temperature max. 95 °C Additional condition temperature range depending on cable quality  Important installation notes  Note on barding radiu when laying cables, e.g. by the usage of cable ties. 95 °C Operating force on the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. 95 °C Installation   Cable    wire arrangement	Material group (IEC 60664-1)	
Color housing black Locking material Environmental characteristics   Climatic  Operating temperature min.	Mechanical data   Material data	
Locking material Stainless steel 1.4578 (V4A)  Environmental characteristics   Climatic  Operating temperature min.	Material housing	PBT
Environmental characteristics   Climatic	Color housing	black
Operating temperature min.         -25 °C           Operating temperature max.         85 °C           Additional condition temperature range         depending on cable quality           Important installation notes         Important installation notes           Note on bending radius         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Installation   Cable         Important installation   Cable           wire arrangement         black 1, black 2, green-yellow           Cable (entitication)         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 A Arrangement         black 1, black 2, green-yellow           Cable weight         61.6 g/m           Material wire insulation         80 ± 5 Shore A           Freedom from ingredients (jacket)         5,9 mm           Tolerance outer diameter (jacket)         5,9 mm           Toler	Locking material	Stainless steel 1.4578 (V4A)
Operating temperature max. 85 °C Additional condition temperature range depending on cable quality  Important installiation 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    wire arrangement   black 1, black 2, green yellow   Cable identification   616   Cable Type   1   Printing color of wire insulation   white (isolation black)   Jacket Color   black   Amount stranding   1   Stranding   3 wires wised   wire arrangement   black 1, black 2, green-yellow   Cable weight   61.6 g/m Material jacket   FVC   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   Outer diameter (sheath)   ±5 %   Material wire insulation   1,8 mm   Outer diameter insulation   1,8 mm   Outer diameter tolerance core insulation   1,8 mm   Outer diameter tolerance core insulation   42 S Shore D   Material properties wire insulation   white (isolation black)   Material properties wire insulation   43 ± S Shore D   Material properties wire insulation   white (isolation black)   Material properties wire insulation   43 ± S Shore D   Material properties wire insulation   white (isolation black)   Material color of wire insulation   white (isolation black)    Material color of wire insulation   white (isolation black)    Material color of wire insulation   white (isolation black)    Material color of wir	Environmental characteristics   Climatic	
Operating temperature max.         85 °C           Additional condition temperature range important installation notes         depending on cable quality           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on banding 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         616           Cable Type         1           Printing color of wire insulation         white (isolation black)           Jacket Color         black           Amount stranding         1           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)         6.9 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         1,8 mm           Outer diameter busination         4.5 Shore D	Operating temperature min.	-25 °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         Attention:           wire arrangement         black 1, black 2, green-yellow           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 2, green-yellow           Cable weight         61.6 g/m           Material jacket         PVC           Shore hardness jacket         PVC           Shore hardness jacket         80 ± 5 Shore A           Freedom from ingredients (jacket)         5,9 mm           Tolerance outer diameter (jacket)         5,9 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         1,8 mm           Outer		
Important installation notes         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on bending radius         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Installation   Cable         Wire arrangement         black 1, black 2, green-yellow           Cable trype         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 (jacket)         lead-free, cadmium-free, CFC-free, silicone-free           Outer-diameter (jacket)         5.9 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         pVC           Amount wires         3           Outer diameter insulation         ± 5 %           Material properties wire insulation         good machinability           Insurance in suitable of wire insulation         good machinability     <		depending on cable quality
Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Installation   Cable    wire arrangement   black 1, black 2, green-yellow    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 weigth   61,8 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 (seath)   ± 5 %    Material wire insulation   PVC    Amount wires   3    Outer diameter tolerance core insulation   ± 5 %    Material properties wire insulation   43 ± 5 Shore D    Material properties wire insulation   white (isolation black)    Amount wire insulation   white (isolation black)    Amount swire insulation   white (isolation black)    Amount swire insulation   43 ± 5 Shore D    Material properties wire insulation   white (isolation black)    Amount swire insulation   white (isolation black)    Amount strands (wire)   24    Dameter of single wires   0,2 mm    Conductor crosssection (wire)   0,75 mm²    Material color of wire insulation   Stranded copper wire, bare    Conductor type (wire)   Stranded copper wire, bare	Important installation notes	
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 616  Cable Type 1  Printing color of wire insulation white (isolation black)  Jacket Color black  Amount stranding 1  Stranding 3 wires trwisted  Amount stranding 1  Stranding 3 wires trwisted  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 %  Material wire insulation PVC  Amount wires 3  Outer diameter (sheath) ± 5 %  Material wire insulation PVC  Amount wires 3  Outer diameter tolerance core insulation 1,8 mm  Outer diameter tolerance core insulation good machinability ingredient freeness 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 good machinability ingredient freeness wire insulation white (isolation black)  Amount strands (wire) 24  Diameter of single wires 0,2 mm  Conductor crosssection (wire) Stranded copper wire, bare  Conductor type (wire) Stranded copper wire, bare	Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
wire arrangement         black 1, black 2, green-yellow           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 weighth         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 insulation         43 ± 5 Shore D           Material properties wire insulation         good machinability           Ingredient freeness wire insulation         good machinability           Ingredient freeness wire insulation         white (isolation black)           Amount strands (wire)         24           Diameter of single wires         0,2 mm		Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be
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         white (isolation black)           Amount strands (wire)         24           Diameter of single wires         0,2 mm           Conductor crossection (wire)         0,75 mm²	Installation   Cable	
Cable Identification         616           Cable Type         1           Printing color of wire insulation         white (isolation black)           Jacket Color         black           Amount stranding         1           Stranding         3 wires twisted           wire arrangement         black 1, black 2, green-yellow           Cable weigth         61.6 g/m           Material jacket         PVC           Shore hardness jacket         80 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, silicone-free           Outer-diameter (jacket)         5,9 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PVC           Amount wires         3           Outer diameter insulation         1,8 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         43 ± 5 Shore D           Material properties wire insulation         good machinability           Ingredient freeness wire insulation         white (isolation black)           Amount strands (wire)         24           Diameter of single wires         0,2 mm           Conductor crossection (wire)         0,75 mm²	·	black 1 black 2 green-vellow
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)         1 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         45 %           Material properties wire insulation         good machinability           Ingredient freeness wire insulation         good machinability           Ingredient freeness wire insulation         white (isolation black)           Amount strands (wire)         24           Diameter of single wires         0,2 mm           Conductor crosssection (wire)         0,75 mm²		
Jacket Color         black           Amount stranding         1           Stranding         3 wires twisted           wire arrangement         black 1, black 2, green-yellow           Cable weigth         61.6 g/m           Material jacket         PVC           Shore hardness jacket         80 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, silicone-free           Outer-diameter (jacket)         5,9 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PVC           Amount wires         3           Outer diameter tolerance core insulation         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           Printing color of wire insulation         white (isolation black)           Amount strands (wire)         24           Diameter of single wires         0,2 mm           Conductor crosssection (wire)         0,75 mm²           Material conductor wire         Stranded copper wire, bare	Cable Type	1
Amount stranding 1 Stranding 3 wires twisted wire arrangement black 1, black 2, green-yellow Cable weigth 61,6 g/m Material jacket PVC Shore hardness jacket 80 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free Outer-diameter (jacket) 5,9 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PVC Amount wires 3 Outer diameter tolerance core insulation 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 white (isolation black) 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) Strande class 5	Printing color of wire insulation	white (isolation black)
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  Printing color of wire insulation white (isolation black)  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) Strande class 5	Jacket Color	black
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 white (isolation black)  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	Amount stranding	1
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  Printing color of wire insulation white (isolation black)  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) Strande class 5	Stranding	3 wires twisted
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 white (isolation black) 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) Strande class 5	wire arrangement	black 1, black 2, green-yellow
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  Printing color of wire insulation white (isolation black)  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	Cable weigth	61,6 g/m
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 white (isolation black)  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) Stranded copper wire, bare	Material jacket	PVC
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  Printing color of wire insulation white (isolation black)  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	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  Printing color of wire insulation white (isolation black)  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	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, silicone-free
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         Printing color of wire insulation       white (isolation black)         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	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 Ingredient freeness wire insulati	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  Printing color of wire insulation white (isolation black)  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	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  Printing color of wire insulation white (isolation black)  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	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  Printing color of wire insulation white (isolation black)  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	Outer diameter insulation	1,8 mm
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)  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	Outer diameter tolerance core insulation	±5%
Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Printing color of wire insulation white (isolation black)  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	Shore hardness wire insulation	43 ± 5 Shore D
Printing color of wire insulation white (isolation black)  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	Material properties wire insulation	good machinability
Amount strands (wire)  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	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, silicone-free
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	Printing color of wire insulation	white (isolation black)
Conductor crosssection (wire) 0,75 mm²  Material conductor wire Stranded copper wire, bare  Conductor type (wire) Strand class 5	Amount strands (wire)	24
Material conductor wire Stranded copper wire, bare Conductor type (wire) Strand class 5	Diameter of single wires	0,2 mm
Conductor type (wire) Strand class 5	Conductor crosssection (wire)	0,75 mm²
71 \ 7	Material conductor wire	Stranded copper wire, bare
Max. rated voltage (conductor - conductor) 500 V	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