

## MSUD valve plug A-18mm with cable F&B

PVC 5x0.75 gy 10m

Art.No.: 7014-18141-2181000

Weight: 0.799 Country of origin: CZ

Model designation: MSUEK-EA7F-218 10.0-S14

F&B MSUD Form A (18 mm) 24 V AC/DC ±25% LED (yellow/green) for pressure switches Screw, Stainless Steel 1.4404 (V4A) Further cable lengths on request.

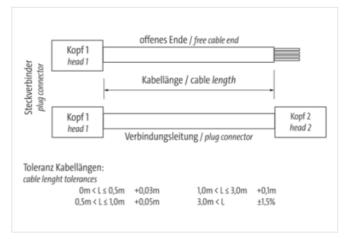
Plastic housings with good resistance against chemicals and oils.

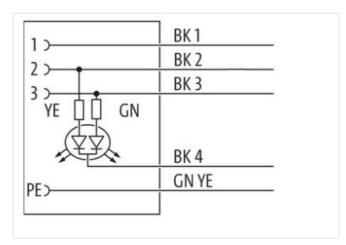
The resistance to aggressive media should be individually tested for your application. Further details on request.

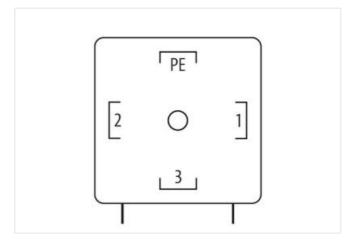
## **Link to Product**

## Illustration



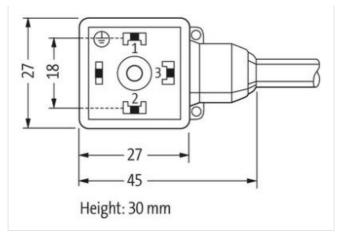








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Product may differ from Image



Cable length	10 m
Side 1	
Tightening torque	0,4 Nm
Mounting method	screwed, pluggable
Coating contact	silver-plated
Family construction form	MSUD A
Thread	M3
Material contact	Bronze
No. of poles	4
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67, IP68, IP69K
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
GTIN	4048879327343
Packaging unit	1
Electrical data   Supply	
Operating voltage AC	24 V
Operating voltage AC min.	18 V
Operating voltage AC max.	30 V
Operating voltage DC	24 V
Operating voltage DC min.	18 V
Operating voltage DC max.	30 V
Current operating per contact max.	4 A

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: 2025-05-03



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Installation   Connection   Silicoping legislated   50 mm   Solicoping legislated   50 mm   Degivee protection   Electrical   Degivee of protection (EN IEC 60559)   IP65, IP67, IP68, IP68K, IP69K   deditional condition protection degipee   Installation   IP65, IP67, IP68, IP68K   deditional condition protection degipee   Installation   IP68, IP67, IP68K   deditional condition protection degipee   Installation   IP68, IP67, IP68K   Makerial group (IEC 606641)   I   Mochanical data   Makerial data   Solon housing   Gruy   Makerial group (IEC 606641)   I   Mochanical data   Makerial data   Solon housing   Gruy   Makerial screw connection   Stainless steel 1.4404 (V4A)   Mochanical data   Makerial data   Department   Institution   Makerial screw connection   Stainless steel 1.4404 (V4A)   Makerial screw connection   Stainless steel   Makerial   Maker	Diagnostics	
Installation   Connection   Stripping lisabell   50 mm   Stripping lisabell   50 mm   Stripping lisabell   50 mm   Stripping lisabell   Electrical	Status indication LED	green, yellow
Sergoing langth (gackwt) 50 mm  Device protection   Electrical  Degree of protection (Elect 68259)   P68, P67, P68, IP68K   P69K    deditional condition protection degree   Inserted, screwed    related surge voltage   0,8 kV    Attending troup (IEC 60564-1)   I  Mechanical data   Material data    Door housing   gray    Attending troup (IEC 60564-1)   I  Brown attendance   Strainess steel   1,4404 (V4A)    Environmental characteristics   Climatic    Doycarding improvature mix.   25 °C    Operating improvature max.   85 °C    Additional condition temperature range   depending on cable quality    Important installation notes    Volume on atrain relat   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable bas.    Attention: Cheeve the permissible bending radii when laying cables, as the IP protection class can be ordangered by excessive bending forces.    Installation   Cable    Were arrangement   Slack 1, black 2, black 3, black 4, green-yellow    Zable scentification   218    Zable trype   1  Permiting calor of whice insulation   1 start    Stranding   5 wines arranged   1 start    Zable weight   92,4 gim    Tolk arrangement   Slack 1, black 2, black 3, black 4, green-yellow    Zable weight   92,4 gim    Zable demander (packed)   7 mm  Tolk armae outer diameter (packed)   7 mm  Tolk armae count diameter (packed)   7 mm  Tolk armae count diameter (packed)   2,5 %  Zable diameter insulation   1,8 mm  Duter dia	Installation   Connection	
Device protection (EN IEC 60529) IP65, IP67, IP68, IP68K, IP69K Additional controllor protection degree inserted, screwed  Pollution Degree 3 3 Attention protection degree 0,8 K V Additional controllor protection degree 0,9 K V Additional Controllor protection Controllor Controllo	Stripping length (jacket)	50 mm
Degree of protection (EN IEC 80529) IP65, IP67, IP68, IP68K, IP68K AP68K AP68K AVAIDATION degree inserted, screwed available condition protection degree inserted, screwed available condition protection degree inserted, screwed available condition protection degree in search available a		
Assistance according protection degree inserted, soewed    Politican Degree   3   3   3   3   3   3   3   3   3	•	
Attention Degree 3 Author Surge voltage 0, 38 kV  Machanical data   Material d	<u> </u>	
Rated surge voltage  Authorizing proup (EC 60604-1)  I  Waterial group (EC 60604-1)  Solinitoss steel 1.4404 (V4A)  Environmental characteristics   Climatic  Diporating temperature min.  25 °C  Diporating temperature min.  25 °C  Diporating temperature min.  45 °C  Authorizing temperature min.  45 °C  Authorizing temperature min.  45 °C  Authorizing temperature max.  55 °C  Authorizing temperature max.  45 °C  Auth	<u> </u>	· · · · · · · · · · · · · · · · · · ·
Material group (IEC 60664-1)  Mochanical data   Material data  Zolar housing gray  Material screw connection Stainless steel 1.404 (V4A)  Environmental characteristics   Climatic  Diperating temperature min25 °C  Diperating temperature min25 °C  Additional condition temperature range depending on cable quality  Important Installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Installation   Cable  wire arrangement black 1, black 2, black 3, black 4, green-yellow  Zable Irype 1  Printing color of wire insulation white (isolation black)  Transcription   S wires around Core filler twisted  Wear arrangement black 1, black 2, black 3, black 4, green-yellow  Zable weight   S wires around Core filler twisted  Wear arrangement   S S S S Nore A    Treadom from ingredients (jacket)   7 mm  Tolerance outer diameter (sheath)   5 %  Material wire insulation   PVC  Material wire insulation   PVC  Material wire insulation   1, mm  Duter diameter (sheath)   5 %  Material wire insulation   1, mm  Duter diameter triberance core insulation   1, mm  Duter diameter triberance		
Mechanical data   Material data   Material data   Solicition   Stainless steel 1.4404 (V4A)   Material screw connection   Stainless steel screw connection   Standed cooper wire, bare   Standed cooper wire, bare   Standed cooper wire, bare   Standed cospect wire, bare   Standed cooper wire, bare   Standed cooper wir		0,8 kV
Solar housing gray  Valerial screw connection Slainless steel 1.4404 (V4A)  Environmental characteristics (Climatic Environmental characteristics (Climatic Environmental characteristics (Climatic Environmental condition temperature min.  25 °C  Departing temperature max.  85 °C  depending on cable quality  Important installation notes  Vote on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  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 black 1, black 2, black 3, black 4, green-yellow  Zable identification 218  Zable identification white (isolation black)  Zable interest of the installation with insulation white (isolation black)  Zable interest of the insulation protection in the insulation protection	Material group (IEC 60664-1)	
Material screw connection  Environmental characteristics   Climatic  Deparating temperature min25 °C  Deparating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g., by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Installation   Cable  Write arrangement black 1, black 2, black 3, black 4, green-yellow  Zable identification 218  Zable identification white (isolation black)  Jacket Color gray  Amount stranding 1  Swires around Core tiller twisted  Write arrangement black 1, black 2, black 3, black 4, green-yellow  Zable weigh 92,4 g/m  Material jacket PVC  Store hardness jacket 80 + 5 Shore A  Teedom from ingredients (jacket) 7 mm  Tolerance outer diameter (sheath) 2 5 %  Material write insulation 1,8 mm  Duter diameter (sheath) 43 + 5 Shore D  Material properties whe insulation production of single writes  Duter diameter (sheath) 43 + 5 Shore D  Material properties whe insulation white (solation black)  Material properties were insulation white (solation black)	Mechanical data   Material data	
Environmental characteristics   Climatic  Departing temperature min.  25 °C  Departing temperature max.  85 °C  Additional condition temperature range depending on cable quality  Important installation notes  Wole 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 with carrangement	Color housing	gray
Operating temperature min. 25 °C Operating temperature max. 85 °C Additional condition temperature max. 450°C Moditional conditions with a second production of the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. 410°C Modition on bending radius 410°C Modition on bendins radius 410°C Modition on bending radius 410°C Modition on bendi	Material screw connection	Stainless steel 1.4404 (V4A)
Deparating temperature max. 85 °C depending on cable quality depending on cable quality migrant installation notes  Vote on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. Altention: 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, black 3, black 4, green-yellow    Zable identification   218    Zable identification   218    Zable identification   218    Zable identification   31    Stranding   5 wires around Core filler twisted    Wire arrangement   black 1, black 2, black 3, black 4, green-yellow    Zable identification   32    Zable identification   42    Zable identification   5 wires around Core filler twisted    Wire arrangement   black 1, black 2, black 3, black 4, green-yellow    Zable weight   92,4 g/m    Waterial jacket   PVC    Shore hardness jacket   PVC    Duter-diameter (jacket)   7 mm    Tolerance outer diameter (jacket)   7 mm    Zable diameter (jacket)   7 mm    Zable diameter (jacket)   1,8 mm    Duter diameter (jacket)   42 ± 5 Shore D    Material wire insulation   42 ± 5 Shore D    Material properties wire insulation   42 ± 5 Shore D    Material properties wire insulation   42 ± 5 Shore D    Material properties wire insulation   42 ± 5 Shore D    Material properties wire insulation   40 ± 5 Shore D    Material properties wire insulation   40 ± 5 Shore D    Material properties wire insulation   40 ± 5 Shore D    Material properties wire insulation   40 ± 5 Shore D    Material properties wire insulation   40 ± 5 Shore D    Material properties wire insulation   40 ± 5 Shore D    Material properties wire insulation   40 ± 5 Shore D    Material properties wire insulation   40 ± 5 Shore D    Material properties wire insulation   40 ± 5 Shore D    Material properties wire insulation   40 ± 5 Shore D    Material properties wire insulation   40 ± 5 Shore D    Material properties wire insulation	Environmental characteristics   Climatic	
Deparating temperature max. 85 °C depending on cable quality depending on cable quality migrant installation notes  Vote on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. Altention: 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, black 3, black 4, green-yellow    Zable identification   218    Zable identification   218    Zable identification   218    Zable identification   31    Stranding   5 wires around Core filler twisted    Wire arrangement   black 1, black 2, black 3, black 4, green-yellow    Zable identification   32    Zable identification   42    Zable identification   5 wires around Core filler twisted    Wire arrangement   black 1, black 2, black 3, black 4, green-yellow    Zable weight   92,4 g/m    Waterial jacket   PVC    Shore hardness jacket   PVC    Duter-diameter (jacket)   7 mm    Tolerance outer diameter (jacket)   7 mm    Zable diameter (jacket)   7 mm    Zable diameter (jacket)   1,8 mm    Duter diameter (jacket)   42 ± 5 Shore D    Material wire insulation   42 ± 5 Shore D    Material properties wire insulation   42 ± 5 Shore D    Material properties wire insulation   42 ± 5 Shore D    Material properties wire insulation   42 ± 5 Shore D    Material properties wire insulation   40 ± 5 Shore D    Material properties wire insulation   40 ± 5 Shore D    Material properties wire insulation   40 ± 5 Shore D    Material properties wire insulation   40 ± 5 Shore D    Material properties wire insulation   40 ± 5 Shore D    Material properties wire insulation   40 ± 5 Shore D    Material properties wire insulation   40 ± 5 Shore D    Material properties wire insulation   40 ± 5 Shore D    Material properties wire insulation   40 ± 5 Shore D    Material properties wire insulation   40 ± 5 Shore D    Material properties wire insulation   40 ± 5 Shore D    Material properties wire insulation	Operating temperature min	-25 °C
Important installation notes  Vote 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 frozes.  Installation   Cable  Write arrangement   black 1, black 2, black 3, black 4, green-yellow  Zable identification   218  Zable Type   1  Printing color of wire insulation   white (isolation black)  Jacket Color   gray  Amount stranding   1  Stranding   5 wires around Core filler twisted  Waterial Jacket   PVC  Allerian   South Shore A  Freedom from ingredients (jacket)   lead-free, cadmium-free, CFC-free, silicone-free  Duter diameter (jacket)   1,8 mm  Duter diameter insulation   43 ± 5 Shore D  Waterial properties wire insulation   43 ± 5 Shore D  Waterial properties wire insulation   43 ± 5 Shore D  Waterial properties wire insulation   43 ± 5 Shore D  Waterial properties wire insulation   43 ± 5 Shore D  Waterial properties wire insulation   43 ± 5 Shore D  Waterial properties wire insulation   properties wire insulation   43 ± 5 Shore D  Waterial properties wire insulation   properties   properties wire insulation   pro		
Important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Installation   Cable  wire arrangement black 1, black 2, black 3, black 4, green-yellow  Cable identification 218  Zable Type 1  Printing color of wire insulation white (isolation black)  Jacket Color gray  Amount stranding 1  Stranding 5 wires around Core filler twisted  wire arrangement black 1, black 2, black 3, black 4, green-yellow  Cable weight 92.4 g/m  Valaterial jacket PVC  Shore hardness jacket 80 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free  Duter-diameter (jacket) 7 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PVC  Amount wires 5  Shore hardness wire insulation 43 ± 5 Shore D  Valet diameter tolerance core insulation 43 ± 5 Shore D  Valet diameter insulation white (isolation black)  Printing color of wire in	· • • • • • • • • • • • • • • • • • • •	
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, black 3, black 4, green-yellow    Zable identification   218    Zable identification   218    Zable identification   dentification   d		
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, black 3, black 4, green-yellow    Cable identification   218    Cable Type   1    Printing color of wire insulation   white (isolation black)    Jackel Color   gray    Amount stranding   1    Stranding   5 wires around Core filler twisted    wire arrangement   black 1, black 2, black 3, black 4, green-yellow    Cable weight   92.4 g/m    Material jacket   PVC    Cable weight   92.4 g/m    Material jacket   PVC    Chore hardness jacket   PVC    Chore hardness jacket   PVC    Chore diameter (jacket)   7 mm    Tolerance outer diameter (sheath)   ± 5 %    Amount wire outer diameter (sheath)   ± 5 %    Amount wire insulation   PVC    Amount wire insulation   PVC    Amount wire insulation   43 ± 5 Shore D    Material properties wire insulation   43 ± 5 Shore D    Material properties wire insulation   43 ± 5 Shore D    Printing color of wire insulation   white (isolation black)    Amount strands (wire)   24    Candidater of the reneass wire insulation   white (isolation black)    Amount strands (wire)   24    Cable wire wire insulation   40 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 +	•	
endangered by excessive bending forces.  Installation   Cable  virie arrangement  black 1, black 2, black 3, black 4, green-yellow  2able identification  218  Cable Type  1  Printing color of wire insulation  white (isolation black)  Jacket Color  gray  Amount stranding  5 wires arround Core filler twisted  wire arrangement  black 1, black 2, black 3, black 4, green-yellow  Cable weight  92.4 g/m  Material jacket  PVC  Shore hardness jacket  80 ± 5 Shore A  Freedom from ingredients (jacket)  Juter-diameter (jacket)  7 mm  Tolerance outer diameter (sheath)  \$ 5  Shore A \text{  Freedom from ingredients (jacket)  Material wire insulation  PVC  Amount wires  5  Duter diameter rolerance core insulation  1,8 mm  Duter diameter rolerance core insulation  43 ± 5 Shore D  Material properties wire insulation  Material properties wire insulation  poor diameter freeness wire insulation  wite (isolation black)  Material properties wire insulation  wite (isolation black)  Amount strands (wire)  24  Amount strands (wire)  24  Amount strands (wire)  Jiameter of single wires  Q, 2 mm  Conductor crosssection (wire)  Q, 5 mm²  Material conductor wire  Stranded copper wire, bare  Conductor type (wire)  Material conductor vire  Stranded copper wire, bare  Conductor type (wire)  Material conductor oconductor)  Material conductor roconductor oconductor)  Strand class 5  Material conductor oconductor oconductor)  Material conductor oconductor oconducto	Note on strain relief	
wire arrangement         black 1, black 2, black 3, black 4, green-yellow           Cable identification         218           Cable Type         1           Printing color of wire insulation         white (isolation black)           Jacket Color         gray           Amount stranding         1           Stranding         5 wires around Core filler twisted           wire arrangement         black 1, black 2, black 3, black 4, green-yellow           Zable weight         92,4 g/m           Material jacket         PVC           Shore hardness jacket         80 ± 5 Shore A           "reedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, silicone-free           Vuler-diameter (jacket)         7 mm           Tolerance outer diameter (sheath)         ± 5 %           Valerial wire insulation         PVC           Amount wires         5           Duter diameter insulation         1,8 mm           User diameter insulation         43 ± 5 Shore D           Material properties wire insulation         49 ± 5 Shore D           Material properties wire insulation         white (isolation black)           Amount strands (wire)         24           Diameter of single wires         0,2 mm           Conductor type (wire)	Note on bending radius	
Cable identification         218           Cable Type         1           Printing color of wire insulation         white (isolation black)           Jacket Color         gray           Amount stranding         1           Stranding         5 wires around Core filler twisted           wire arrangement         black 1, black 2, black 3, black 4, green-yellow           Cable weight         92,4 g/m           Material jacket         PVC           Shore hardness jacket         80 ± 5 Shore A           Freedom from ingredients (jacket)         7 mm           Duter-diameter (jacket)         7 mm           Diference outer diameter (sheath)         ± 5 %           Amount wires         5           Duter diameter insulation         PVC           Amount wires         5           Duter diameter insulation         1,8 mm           Duter diameter insulation         43 ± 5 Shore D           Material properties wire insulation         good machinability           Ingredient freeness wire insulation         good machinability           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, silicone-free           Waterial properties wire insulation         white (isolation black)           Amount strands (wire) <t< td=""><td>Installation   Cable</td><td></td></t<>	Installation   Cable	
Cable Type         1           Printing color of wire insulation         white (isolation black)           Jacket Color         gray           Amount stranding         1           Stranding         5 wires around Core filler twisted           wire arrangement         black 1, black 2, black 3, black 4, green-yellow           Cable weigth         92.4 g/m           Material jacket         PVC           Shore hardness jacket         80 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, silicone-free           Duter-diameter (jacket)         7 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PVC           Amount wires         5           Shore hardness wire insulation         1,8 mm           Duter diameter tolerance core insulation         ± 5 %           Shore hardness 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           Waterial conducto	wire arrangement	black 1, black 2, black 3, black 4, green-yellow
Printing color of wire insulation white (isolation black)  Jacket Color gray  Amount stranding 1  Stranding 5 wires around Core filler twisted  wire arrangement black 1, black 2, black 3, black 4, green-yellow  Zable weigth 92,4 g/m  Material jacket PVC  Shore hardness jacket 80 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free  Duter-diameter (jacket) 7 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PVC  Amount wires 5  Duter diameter tolerance core insulation 1,8 mm  Duter diameter tolerance core 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  Conductor crosssection (wire) 0,75 mm²  Material conductor wire Stranded copper wire, bare  Oxford voltage (conductor - ground) 300 V  Max. rated voltage (conductor - ground) 300 V	Cable identification	218
Jacket Color gray Amount stranding 1 Stranding 5 wires around Core filler twisted wire arrangement black 1, black 2, black 3, black 4, green-yellow Cable weigth 92,4 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) 7 mm Colerance outer diameter (sheath) ± 5 % Material wire insulation PVC Amount wires 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 43 ± 5 Shore D Material properties wire insulation lead-free, cadmium-free, CFC-free, silicone-free Printing color of wire insulation white (solation black) Amount strands (wire) 24 Diameter of single wires 0,2 mm Conductor crosssection (wire) 0,75 mm² Material conductor wire Conductor type (wire) Stranded copper wire, bare Conductor type (wire) Stranded copper wire, bare Conductor vire (conductor - ground) 300 V	Cable Type	1
Amount stranding 1 Stranding 5 wires around Core filler twisted wire arrangement black 1, black 2, black 3, black 4, green-yellow Cable weigth 92,4 g/m Material jacket PVC Shore hardness jacket PVC Shore hardness jacket lead-free, cadmium-free, CFC-free, silicone-free Duter-diameter (jacket) 7 mm Folerance outer diameter (sheath) ±5 % Material wire insulation PVC Amount wires 5 Duter diameter insulation PVC Amount wires 5 Shore hardness wire insulation 43 ± 5 Shore D Material properties 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 Max. rated voltage (conductor - ground) 300 V Max. rated voltage (conductor - ground) 300 V	Printing color of wire insulation	white (isolation black)
Stranding 5 wires around Core filler twisted wire arrangement black 1, black 2, black 3, black 4, green-yellow Cable weigth 92.4 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) 7 mm Colerance outer diameter (sheath) ± 5 % Material wire insulation PVC Amount wires 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 ngredient 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 Max. rated voltage (conductor - conductor) 500 V Max. rated voltage (conductor - conductor) 500 V Max. rated voltage (conductor - ground) 300 V	Jacket Color	gray
wire arrangement black 1, black 2, black 3, black 4, green-yellow Cable weigth 92,4 g/m Material jacket PVC Shore hardness jacket 80 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free Duter-diameter (jacket) 7 mm Colerance outer diameter (sheath) ± 5 % Material wire insulation PVC Amount wires 5 Souter diameter insulation 1,8 mm Duter 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 Max. rated voltage (conductor - conductor) 500 V Max. rated voltage (conductor - ground) 300 V	Amount stranding	1
Cable weigth 92,4 g/m  Material jacket PVC  Shore hardness jacket 80 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free  Duter-diameter (jacket) 7 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PVC  Amount wires 5  Duter diameter insulation 1,8 mm  Duter 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  Max. rated voltage (conductor - ground) 300 V	Stranding	5 wires around Core filler twisted
Material jacket PVC Shore hardness jacket 80 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free Duter-diameter (jacket) 7 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PVC Amount wires 5 Duter diameter insulation 1,8 mm Duter 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 Max. rated voltage (conductor - conductor) 500 V Max. rated voltage (conductor - ground) 300 V	wire arrangement	black 1, black 2, black 3, black 4, green-yellow
Shore hardness jacket 80 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free  Outer-diameter (jacket) 7 mm  Folerance outer diameter (sheath) ± 5 %  Material wire insulation PVC  Amount wires 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 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  Max. rated voltage (conductor - ground) 300 V	Cable weigth	92,4 g/m
Freedom from ingredients (jacket)  Duter-diameter (jacket)  7 mm  Folerance outer diameter (sheath)  \$\frac{	Material jacket	PVC
Couter-diameter (jacket) 7 mm  Tolerance outer diameter (sheath) ±5 %  Material wire insulation PVC  Amount wires 5  Couter diameter insulation 1,8 mm  Couter 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  Max. rated voltage (conductor - conductor) 500 V  Max. rated voltage (conductor - ground) 300 V	Shore hardness jacket	80 ± 5 Shore A
Tolerance outer diameter (sheath)	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, silicone-free
Material wire insulation PVC  Amount wires 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  Max. rated voltage (conductor - ground) 300 V	Outer-diameter (jacket)	7 mm
Amount wires 5  Duter diameter insulation 1,8 mm  Duter 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  Max. rated voltage (conductor - conductor) 500 V  Max. rated voltage (conductor - ground) 300 V	Tolerance outer diameter (sheath)	± 5 %
Amount wires 5  Duter diameter insulation 1,8 mm  Duter 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  Max. rated voltage (conductor - conductor) 500 V  Max. rated voltage (conductor - ground) 300 V	Material wire insulation	PVC
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  Max. rated voltage (conductor - conductor) 500 V Max. rated voltage (conductor - ground) 300 V	Amount wires	
Duter 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  Max. rated voltage (conductor - conductor) 500 V  Max. rated voltage (conductor - ground) 300 V	Outer diameter insulation	
Shore hardness 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 Max. rated voltage (conductor - ground) 300 V		· · · · · · · · · · · · · · · · · · ·
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 Max. rated voltage (conductor - conductor) 500 V Max. rated voltage (conductor - ground) 300 V	Shore hardness wire insulation	
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  Max. rated voltage (conductor - conductor) 500 V  Max. rated voltage (conductor - ground) 300 V	Material properties wire insulation	
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  Max. rated voltage (conductor - conductor) 500 V  Max. rated voltage (conductor - ground) 300 V	Ingredient freeness wire insulation	
Amount strands (wire)  Diameter of single wires  O,2 mm  Conductor crosssection (wire)  Material conductor wire  Stranded copper wire, bare  Conductor type (wire)  Max. rated voltage (conductor - conductor)  Max. rated voltage (conductor - ground)  300 V		
Diameter of single wires 0,2 mm  Conductor crosssection (wire) 0,75 mm²  Material conductor wire Stranded copper wire, bare  Conductor type (wire) Strand class 5  Max. rated voltage (conductor - conductor) 500 V  Max. rated voltage (conductor - ground) 300 V	Amount strands (wire)	
Conductor crosssection (wire) 0,75 mm²  Material conductor wire Stranded copper wire, bare  Conductor type (wire) Strand class 5  Max. rated voltage (conductor - conductor) 500 V  Max. rated voltage (conductor - ground) 300 V	<u> </u>	
Material conductor wire Stranded copper wire, bare Conductor type (wire) Strand class 5  Max. rated voltage (conductor - ground) 300 V  Max. rated voltage (conductor - ground) 300 V	Conductor crosssection (wire)	
Conductor type (wire)  Strand class 5  Max. rated voltage (conductor - ground)  300 V	Material conductor wire	<u> </u>
Max. rated voltage (conductor - conductor) 500 V  Max. rated voltage (conductor - ground) 300 V	Conductor type (wire)	
Max. rated voltage (conductor - ground) 300 V		
	Current load capacity (standard)	



Current load capacity min. wire	9 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 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	DIN EN 60811-404   Good, application-related testing
Bending radius (fixed)	5 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter