

stay connected

## MSUD valve plug A-18mm with cable

PVC 3x0.75 bk 30m

**MSUD** Form A (18 mm) 24 V AC ±20% / DC ±25% LED and suppression Bridged PE

Further cable lengths on request.

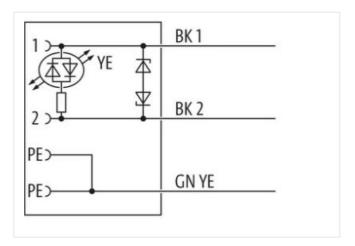
Plastic housings with good resistance against chemicals and oils.

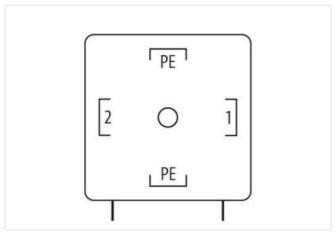
The resistance to aggressive media should be individually tested for your application. Further details on request.

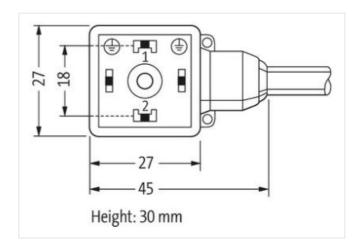
## **Link to Product**

## Illustration









Product may differ from Image









Cable length

30 m

Side 1



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Tightening torque	0,4 Nm
Mounting method	inserted, screwed
Family construction form	MSUD A
Thread	M3
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	4048879193696
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
Operating voltage DC	24 V
Operating voltage DC min.	18 V
Operating voltage DC max.	30 V
Cut-off peak voltage max.	55 V
Current operating per contact max.	4 A
Current consumption max.	15 mA
Diagnostics	
Status indication LED	yellow
	yellow
Installation   Connection	
Mounting set	M3
Device protection   Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	0,8 kV
Material group (IEC 60664-1)	
Additional suppressor	Diode, Z-Diode
Mechanical data   Material data	
Coating locking	verzinkt
Coating of fitting	verzinkt
Color housing	black
Material gasket	PUR
Locking material	Steel
Material screw connection	Steel
Mechanical data   Mounting data	
	inserted, screwed
Mounting method  Environmental characteristics   Climatic	inserted, screwed



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Operating temperature max. 65 °C Additional constitution integrature range of depending on cable quality important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g., by the usage of cable lies.  Alternative Control of Cable of Cable of Cable (Cable Operation) and the protection of Cable of Cable (Cable Operation) and the protection of Cable of Cable (Cable Operation) and the protection of Cable of Cable (Cable Operation) and the protection of Cable (Cable Oper	Operating temperature min.	-25 °C
Note on train related   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable less. Note on bending radius   Attention: Observe the permissible bending radii when laying cables, as the IP protection class can it and appropriate to the connectors by suitable measures from mechanical loads, e.g. by the usage of cable less. Note on bending radius   Attention: Observe the permissible bending radii when laying cables, as the IP protection class can it and appropriate   Attention: Observe the permissible bending radii when laying cables, as the IP protection class can it and appropriate   Attention: Observe the permissible bending radii when laying cables, as the IP protection class can it and appropriate   Attention: Observe the permissible bending radii when laying cables, as the IP protection class can it and appropriate   Attention: Observe the permissible bending radii when laying cables, as the IP protection class can it and appropriate   Attention: Observe the permissible bending radii when laying cables, as the IP protection class can it and appropriate   Attention: Observe the permissible bending radii when laying cables, as the IP protection class can it and appropriate   Attention: Observe the permissible bending radii when laying cables, as the IP protection class can it and appropriate with a protection class can it and appropriate with a protection class can it and appropriate with a protection of the IP protection class can it and appropriate with insulation   Attention: Observe the insulation   Attent	Operating temperature max.	85 °C
Note on strain relief Note on bending radius  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can tending radius  Installation ( Cable  Wire arrangement	Additional condition temperature range	depending on cable quality
Attention: Chasene the permissible bending radii when laying cables, as the IP protection class can a entangered by excessive bending forces.  Installation   Cable    wire arrangement   black 1, black 2, green-yellow    Cable irype   1    Printing color of wire insulation   white (solation black)    Jacket Color   black    Anount stranding   1    Siranding   3 wires twisted    wire arrangement   black 1, black 2, green-yellow    Cable weight   61,6 g/m    Malertal jacket   PVC    Shore hardness include   PVC    Shore hardness wire insulation   PVC    Anount wires   3    Outer diameter (sloeth)   ± 5 %    Malertal wires insulation   PVC    Anount wires   3    Outer diameter insulation   PVC    Anount wires   3    Outer diameter insulation   43 ± 5 Shore D    Material properties wire insulation   lead-free, cadmitum-free, CFC-free, silicone-free    Outer diameter insulation   20 color of wire insulation   20 color of	Important installation notes	
Attention: Chasene the permissible bending radii when laying cables, as the IP protection class can a entangered by excessive bending forces.  Installation   Cable    wire arrangement   black 1, black 2, green-yellow    Cable irype   1    Printing color of wire insulation   white (solation black)    Jacket Color   black    Anount stranding   1    Siranding   3 wires twisted    wire arrangement   black 1, black 2, green-yellow    Cable weight   61,6 g/m    Malertal jacket   PVC    Shore hardness include   PVC    Shore hardness wire insulation   PVC    Anount wires   3    Outer diameter (sloeth)   ± 5 %    Malertal wires insulation   PVC    Anount wires   3    Outer diameter insulation   PVC    Anount wires   3    Outer diameter insulation   43 ± 5 Shore D    Material properties wire insulation   lead-free, cadmitum-free, CFC-free, silicone-free    Outer diameter insulation   20 color of wire insulation   20 color of	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 identification 616 Cable Type 1 Printing color of wire insulation white (solation black) Jacket Color black Amount stranding 1 Stra	Note on bending radius	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be
Cable identification 616  Cable Type 1  Trinting color of wire insulation white (solation black)  Jackat Color  Amount stranding 1  Stranding 3 wires twisted  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) 5,9 mm  Tolerance outer diameter (fecket) 5,9 mm  Tolerance outer diameter (fecket) 5,9 mm  Tolerance outer diameter (feshath) ± 5 %  Material wire insulation PVC  Amount wires 3  Outer diameter insulation 3,0 mm  Outer diameter insulation 43 ± 5 Shore D  Material properties wire insulation 43 ± 5 Shore D  Material properties wire insulation 43 ± 5 Shore D  Material properties wire insulation 43 ± 5 Shore D  Material properties wire insulation 43 ± 5 Shore D  Material properties wire insulation insulation 43 ± 5 Shore D  Material properties wire insulation insulation insulation white (isolation black)  Amount strands (wire) 24  Diameter of single wires 0 2 mm  Conductor pressection (wire) 0,75 mm²  Material productor wire  Conductor or greating wires 0 2 mm  Conductor or greating wires 0 2 mm  Conductor type (wire) Strand class 5  Max. rated voltage (conductor - ground) 500 V  Max. rated voltage (wire - wire) 3 kV @ 60 s  Max. peraling temperature (fixed) 50 P  Operating temperature (fixed) 50 P  Operating temperature (fixed) 50 P  Operating temperature min. (dynamic) 70 °C  Operating temperature min. (dynamic) 50 °C  Operat	Installation   Cable	
Cable identification 616  Cable Type 1  Trinting color of wire insulation white (solation black)  Jackat Color  Amount stranding 1  Stranding 3 wires twisted  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) 5,9 mm  Tolerance outer diameter (fecket) 5,9 mm  Tolerance outer diameter (fecket) 5,9 mm  Tolerance outer diameter (feshath) ± 5 %  Material wire insulation PVC  Amount wires 3  Outer diameter insulation 3,0 mm  Outer diameter insulation 43 ± 5 Shore D  Material properties wire insulation 43 ± 5 Shore D  Material properties wire insulation 43 ± 5 Shore D  Material properties wire insulation 43 ± 5 Shore D  Material properties wire insulation 43 ± 5 Shore D  Material properties wire insulation insulation 43 ± 5 Shore D  Material properties wire insulation insulation insulation white (isolation black)  Amount strands (wire) 24  Diameter of single wires 0 2 mm  Conductor pressection (wire) 0,75 mm²  Material productor wire  Conductor or greating wires 0 2 mm  Conductor or greating wires 0 2 mm  Conductor type (wire) Strand class 5  Max. rated voltage (conductor - ground) 500 V  Max. rated voltage (wire - wire) 3 kV @ 60 s  Max. peraling temperature (fixed) 50 P  Operating temperature (fixed) 50 P  Operating temperature (fixed) 50 P  Operating temperature min. (dynamic) 70 °C  Operating temperature min. (dynamic) 50 °C  Operat	wire arrangement	black 1 black 2 green-yellow
Cable Type         1           Printing color of wire insulation         white (isolation black)           Jacket Color         black           Amount stranding         1           Stranding         3 wires twisted           wire arrangement         black 1, black 2, green-yellow           Cable weigh         61,6 gm           Material jacket         PVC           Shore hardness jacket         80 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, sillicone-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 lolerance core insulation         ± 5 %           Shore hardness wire insulation         43 ± 5 Shore D           Material properties wire insulation         god machinability           Ingredient freeness 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 type (w	<u>-</u>	
Printing color of wire insulation white (isolation black) Jacket Color black Jacket Color black Amount stranding 1 Stranding 3 wires twisted Wire arrangement black 1, black 2, green-yellow Cable weight 61,6 gm Meterial jacket PVC Shore hardness jacket PVC Shore hardness jacket PVC Shore hardness jacket 1, each fee, cadmium-free, CFC-free, silicone-free Outer-diameter (jacket) 5,9 mm Torreadom from ingredients (jacket) 1,5 mm Torreadom from ingredients		
Jacket Color		
Amount stranding         1           Stranding         3 wires twisted           wire arrangement         black 1, black 2, green-yellow           Cable weigh         61,6 g/m           Material jacket         PVC           Shore hardness jacket         80 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, silicone-free           Outer diameter (jacket)         5,9 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PVC           Amount wires         3           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, cadminum-ree, CFC-free, silicone-free           Printing color of vire insulation         white (solation black)           Amount strands (wire)         24           Diameter of single wires         0,2 mm           Conductor type (wire)         Stranded copper wire, bare           Conductor type (wire)         Stranded copper wire, bare           Max. rated voltage (conductor - ground)         300 V           Max. rated voltage (conductor - ground)		· · · · · · · · · · · · · · · · · · ·
Stranding 3 wires twisted black 1, black 2, green-yellow Cable weight black 1, 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) lead-free, cadmium-free, CFC-free, silicone-free Outer-diameter (jacket) 5.9 mm Tolerance outer diameter (sheath) 2.5 % Material wire insulation PVC Amount wires 3 Quiter diameter insulation 1.8 mm Outer diameter rousilation 2.5 % Shore bardness wire insulation 1.8 mm Outer diameter tolerance core insulation 2.5 % Shore bardness wire insulation 43.3 5 Shore D Material properties wire insulation 43.4 5 Shore D Material properties wire insulation 44.5 Power of which insulation 45.5 Power free Printing color of wire insulation white (solation black) Annount strands (wire) 24 Diameter of single wires 0.2 mm Conductor of single wires 0.2 mm Conductor rossessedion (wire) 0.75 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) Max. rated voltage (conductor - conductor) 500 V Max. rated voltage (conductor - conductor) 500 V Max. rated voltage (conductor - conductor) 500 V Max. rated voltage (conductor - ground) 300 V Qurrent load capacity (rist number 2.6 Qkm @ 20 °C AC withstand voltage (wire - wire) 3 kV @ 60 s Power (requency withstand voltage (wire - wire) 3 kV @ 60 s Power (requency withstand voltage (wire - wire) 70 °C Operating temperature (static) 70 °C Operating temperature max. (dynamic) 500 capilication-related testing 10 IN EN 60811-404		
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           Outler-diameter (jacket)         5.9 mm           Totarance outer diameter (sheath)         ± 5 %           Material wire insulation         PVC           Amount wires         3           Outler diameter lolerance core insulation         ± 5 mm           Outler diameter sinustation         ± 5 mm           Waterial properties wire insulation         ± 5 mm           Waterial properties wire insulation         ± 5 mm           Material properties wire insulation         ± 5 mm           Ingredient freeness wire insulation         year 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 by Evine (wire)         Strand class 5           Max. rated voltage (conductor - conductor)         500 V           Max. rated voltage (conductor - conductor)         500 V           Max. rated voltage (conductor -		
Cable weight         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 (sheath)         ± 5 %           Material wire insulation         PVC           Amount wires         3           Outer diameter insulation         1,8 mm           Shore hardness wire insulation         ± 5 %           Shore hardness wire insulation         ± 5 %           Material properties wire insulation         ± 5 %           Material properties wire insulation         good machinability           Ingredient freeness 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 (rosssection (wire)         0,75 mm²           Max. rated voltage (conductor - conductor)         500 V           Max. rated voltage (conductor - conductor)         500 V           Max. rated voltage (conductor - conductor)         500 V           Current load capacity (standard)		
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 lolerance core insulation         ± 5 %           Shore hardness wire insulation         ± 5 %           Material properties wire insulation         ± 5 %           Material properties wire insulation         ± 5 Shore D           Material properties wire insulation         ± 5 Shore D           Material properties wire insulation         lead-free, cadmium-free, CFC-free, silicone-free           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 vire (solation wire)         0,75 mm²           Max. rated voltage (conductor - conductor)         500 V           Max. rated voltage (conductor - conductor)         500 V           Max. rated voltage (conductor - ground)         300 V           Current load capacity (standard)         to DIN	<u> </u>	
Shore hardness jacket         80 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, silicone-free           Under-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           Duter diameter tolerance core insulation         43 ± 5 Shore D           Shore hardness wire insulation         good machinability           Impedient freeness wire insulation         white (isolation black)           Material properties wire insulation         white (isolation black)           Amount strands (wire)         24           Diameter of single wires         0,2 mm           Conductor rossesection (wire)         0,75 mm²           Material conductor wire         Stranded copper wire, bare           Zonductor type (wire)         Stranded copper wire, bare           Max. rated voltage (conductor - conductor)         500 V           Max. rated voltage (conductor - conductor)         500 V           Max. rated voltage (conductor - goound)         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (wire viral existance line constant wire		
Freedom from ingredients (jacket)  Duter-diameter (jacket)  S, 9 mm  Tolerance outer diameter (sheath)  PVC  Amount wires  3  Duter diameter insulation  PUC  Amount wires  3  Duter diameter tolerance core insulation  At 5 %  Material wire insulation  At 5 Shore D  Material properties wire insulation  Material conductor vire  Stranded copper wire, bare  Conductor crosssection (wire)  Material conductor wire  Stranded copper wire, bare  Conductor type (wire)  Max. rated voltage (conductor - conductor)  Max. rated voltage (conductor - conductor)  Max. rated voltage (conductor - ground)  Max. rated voltage (conductor - ground)  Max. rated voltage (conductor - ground)  Durrent load capacity min. wire  12 A  Electrical resistance line constant wire  AC withstand voltage (wire - wire)  3 kV @ 60 s  Min. operating temperature (static)  AS V @ 60 s  Min. operating temperature (static)  AS V @ 60 s  Min. operating temperature (static)  AS V @ 60 s  Min. operating temperature (min. (dynamic)  Dy resistance  DIN EN ISO 4892-2 A  UV resistance  DIN EN ISO 4892-2 A  DIN EN ISO 4892-2 A  DUS Tesistance  Good, application-related testing  Dil resistance  Good, application-related testing  Dil resistance  Good, application-related testing  Dil resistance	•	
Duter-diameter (jacket)         5,9 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PVC           Amount wires         3           Duter diameter losarce core insulation         ± 5 %           Shore hardness wire insulation         ± 5 %           Material properties wire insulation         3 ± 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)           Manount 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           Max. rated voltage (conductor - conductor)         500 V           Max. rated voltage (conductor - ground)         300 V           Current load capacity (standard)         to DIN NDE 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	<u> </u>	
Tolerance outer diameter (sheath)	<u> </u>	
Material wire insulation PVC Amount wires 3 3 Duter diameter insulation 1,8 mm Dutler diameter 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) Stranded 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 Current load capacity min. wire 12 A Current load capacity withstand voltage (wire - wire) 3 kV @ 60 s Power frequency withstand voltage (wire - wire) 3 kV @ 60 s Power frequency withstand voltage (wire - wire) - 30 °C Max. operating temperature (sted) 70 °C Operating temperature min. (dynamic) -5 °C Operating temperature max. (dynamic) 70 °C UV resistance DIN EN ISO 4892-2 A Dill EN ISO 4892-2 A Dill File Electrical resistance Good, application-related testing Dill EN 60811-404	<b>v</b> ,	· · · · · · · · · · · · · · · · · · ·
Amount wires         3           Outer diameter insulation         1,8 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         33 ± 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 of single wires         0,2 mm           Conductor wire         Stranded copper wire, bare           Conductor type (wire)         Stranded 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 (wire wire)         26 Okm @ 20 °C           AC withstand voltage (wire - wire)         3 kV @ 60 s           Power frequency withstand voltage (wire - wire)         3 kV @ 60 s           Win. operating temperature (static)         -30 °C           Max. operating temperature max. (dynamic)         -5 °C           Operating temperature max. (dynamic)         70 °C<	,	
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           gredient 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           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (wire)         3 kV @ 60 s           AC withstand voltage (wire - wire)         3 kV @ 60 s           Power frequency withstand voltage (wire - acket)         3 kV @ 60 s           Winc. operating temperature (static)         70 °C           Operating temperature min. (dynamic)         -5 °C           Operating temperature ma		
Duter diameter tolerance core insulation ± 5 % Shore hardness wire insulation 43 ± 5 Shore D Material properties wire insulation good machinability gredient 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 Donductor crosssection (wire) 0,75 mm² Material conductor wire Stranded copper wire, bare Conductor type (wie) Stranded copper wire, bare Conductor type (wie) Stranded copper wire, bare  Max. rated voltage (conductor - conductor) 500 V Max. rated voltage (conductor - ground) 300 V Durrent 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  Dower frequency withstand voltage (wire - acket)  Min. operating temperature (static) 70 °C  Operating temperature min. (dynamic) -5 °C  Operating temperature max. (dynamic) 70 °C  UV resistance DIN EN ISO 4892-2 A  Eliame resistance Good, application-related testing Gasoline resistance Good, application-related testing In IN EN 60811-404		
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  Current load capacity (standard) to DIN VDE 0298-4  Curlent load capacity (standard) to DIN VDE 0298-4  Curlent load capacity wire 26 Ω/km @ 20 °C  AC withstand voltage (wire - wire) 3 kV @ 60 s  Cover frequency withstand voltage (wire - 3 kV @ 60 s  Min. operating temperature (static) -30 °C  Max. operating temperature (static) 70 °C  Diperating temperature max. (dynamic) -5 °C  Diperating temperature max. (dynamic) 70 °C  Diversitance DIN No ISO 4892-2 A  Elemetresistance Good, application-related testing  Gasoline resistance  Good, application-related testing  Dil resistance  Good, application-related testing IDIN EN 60811-404		· ·
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) Stranded copper wire, bare Conductor type (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 Q/km @ 20 °C AC withstand voltage (wire - wire) 3 kV @ 60 s  Volver frequency withstand voltage (wire - acket) 3 kV @ 60 s  Volver frequency withstand voltage (wire - acket) 70 °C Deparating temperature (fixed) 70 °C Deparating temperature min. (dynamic) -5 °C Deparating temperature max. (dynamic) 70 °C UV resistance DIN EN ISO 4892-2 A  Elame resistance UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090 Schemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Dil resistance Good, application-related testing Dil resistance Good, application-related testing		
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  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 - and constant wire) 3 kV @ 60 s  Active constant wire with and voltage (wire - and constant wire) 3 kV @ 60 s  Operating temperature (static) -30 °C  Max. operating temperature (fixed) 70 °C  Diperating temperature min. (dynamic) -5 °C  Diperating temperature max. (dynamic) 70 °C  JV resistance DIN EN ISO 4892-2 A  Elame resistance UL 1581 § 1100 FTZ   IEC 60332-2-2   UL 1581 § 1090  chemical resistance  Good, application-related testing  Dil resistance  Good, application-related testing  Dil resistance  Good, application-related testing  Dil resistance  Good, application-related testing   DIN EN 60811-404		
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  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 - acket)  Min. operating temperature (static) -30 °C  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 Good, application-related testing  Gasoline resistance  Good, application-related testing   DIN EN 60811-404	• •	,
Amount strands (wire) 24  Diameter of single wires 0,2 mm  Conductor crosssection (wire) 0,75 mm²  Material conductor wire Stranded copper wire, bare  Conductor type (wire) Strand class 5  Max. rated voltage (conductor - conductor) 500 V  Max. rated voltage (conductor - ground) 300 V  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity (standard) 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 - acket) 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 Good, application-related testing  Gasoline resistance Good, application-related testing  Girch acket of the single content of the	Ingredient freeness wire insulation	
Diameter of single wires  O,2 mm  Conductor crosssection (wire)  O,75 mm²  Material conductor wire  Stranded copper wire, bare  Conductor type (wire)  Strand class 5  Max. rated voltage (conductor - conductor)  Max. rated voltage (conductor - ground)  OUTION TO BIN VDE 0298-4  Current load capacity (standard)  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 - asket)  Min. operating temperature (static)  Average of the properature (fixed)  Operating temperature (fixed)  To °C  Operating temperature max. (dynamic)  Vresistance  DIN EN ISO 4892-2 A  Flame resistance  Good, application-related testing  Good, application-related testing  DIN EN 160 6811-404	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  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  Cover frequency withstand voltage (wire - asket) 3 kV @ 60 s  Cover frequency withstand voltage (wire - asket) 70 °C  Deparating temperature (fixed) 70 °C  Deparating temperature max. (dynamic) 70 °C  Deparating temperature max. (dynamic) 70 °C  DV resistance DIN EN ISO 4892-2 A  Flame resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Good, application-related testing DIN EN 60811-404	Amount strands (wire)	24
Material conductor wire  Conductor type (wire)  Stranded copper wire, bare  Conductor type (wire)  Strand class 5  Max. rated voltage (conductor - conductor)  Max. rated voltage (conductor - ground)  300 V  Current load capacity (standard)  Current load capacity (standard)  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 - acket)  Min. operating temperature (static)  -30 °C  Max. operating temperature (fixed)  70 °C  Operating temperature min. (dynamic)  70 °C  UV resistance  DIN EN ISO 4892-2 A  Flame resistance  Good, application-related testing  Good, application-related testing  Good, application-related testing  DIN EN 60811-404	Diameter of single wires	0,2 mm
Conductor type (wire)  Strand class 5  Max. rated voltage (conductor - conductor)  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  AC withstand voltage (wire - wire)  3 kV @ 60 s  Power frequency withstand voltage (wire - acket)  Min. operating temperature (static)  -30 °C  Max. operating temperature (fixed)  Operating temperature min. (dynamic)  -5 °C  Operating temperature max. (dynamic)  70 °C  UV resistance  DIN EN ISO 4892-2 A  Flame resistance  Good, application-related testing  Good, application-related testing  Good, application-related testing  Good, application-related testing  DIN EN 60811-404	Conductor crosssection (wire)	0,75 mm <sup>2</sup>
Max. rated voltage (conductor - conductor)  Max. rated voltage (conductor - ground)  300 V  Current load capacity (standard)  Current load capacity (standard)  Current load capacity min. wire  12 A  Electrical resistance line constant wire  AC withstand voltage (wire - wire)  Power frequency withstand voltage (wire - acket)  Min. operating temperature (static)  Operating temperature (fixed)  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  To °C  Operating temperature max. (dynamic)  OV resistance  DIN EN ISO 4892-2 A  Elame resistance  UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090  Chemical resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing  Gli resistance   Good, application-related testing   DIN EN 60811-404	Material conductor wire	Stranded copper wire, bare
Max. rated voltage (conductor - ground)  Current load capacity (standard)  to DIN VDE 0298-4  Current load capacity min. wire  12 A  Electrical resistance line constant wire  AC withstand voltage (wire - wire)  Power frequency withstand voltage (wire - acket)  Min. operating temperature (static)  Operating temperature (fixed)  70 °C  Operating temperature min. (dynamic)  70 °C  Operating temperature max. (dynamic)  70 °C  UV resistance  DIN EN ISO 4892-2 A  Electrical resistance  Good, application-related testing  Good, application-related testing  Cil resistance  Good, application-related testing  DIN EN 60811-404	Conductor type (wire)	Strand class 5
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 - acket) 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	Max. rated voltage (conductor - conductor)	500 V
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 - iacket)  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	Max. rated voltage (conductor - ground)	300 V
Electrical resistance line constant wire  26 Ω/km @ 20 °C  AC withstand voltage (wire - wire)  3 kV @ 60 s  Power frequency withstand voltage (wire - acket)  3 kV @ 60 s  Min. operating temperature (static)  43 °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  Good, application-related testing   DIN EN 60811-404	Current load capacity (standard)	to DIN VDE 0298-4
AC withstand voltage (wire - wire)  3 kV @ 60 s  Power frequency withstand voltage (wire - acket)  3 kV @ 60 s  Min. operating temperature (static)  3 kV @ 60 s  Max. operating temperature (fixed)  70 °C  Operating temperature min. (dynamic)  70 °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  Good, application-related testing   DIN EN 60811-404	Current load capacity min. wire	12 A
Power frequency withstand voltage (wire - acket)  Min. operating temperature (static)  Max. operating temperature (fixed)  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  To °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	Electrical resistance line constant wire	26 Ω/km @ 20 °C
Acket)  Sky (200 S)  Min. operating temperature (static)  Max. operating temperature (fixed)  Operating temperature min. (dynamic)  To °C  Operating temperature max. (dynamic)  To °C  Operating tempera	AC withstand voltage (wire - wire)	3 kV @ 60 s
Max. operating temperature (fixed)  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		3 kV @ 60 s
Operating temperature min. (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  Good, application-related testing  Good, application-related testing   DIN EN 60811-404	Min. operating temperature (static)	-30 °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	Max. operating temperature (fixed)	70 °C
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	Operating temperature min. (dynamic)	-5 °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  Good, application-related testing   DIN EN 60811-404	Operating temperature max. (dynamic)	70 °C
Chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing   DIN EN 60811-404	UV resistance	DIN EN ISO 4892-2 A
Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing   DIN EN 60811-404	Flame resistance	UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090
Oil resistance Good, application-related testing   DIN EN 60811-404	chemical resistance	Good, application-related testing
7 11	Gasoline resistance	Good, application-related testing
<del>``</del>	Dil resistance	Good, application-related testing   DIN EN 60811-404
	Bending radius (fixed)	
Bending radius (dynamic) 10 x Outer diameter		10 x Outer diameter

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: 2024-06-23