

## MSUD Xtreme valve plug A-18mm with cable V2A

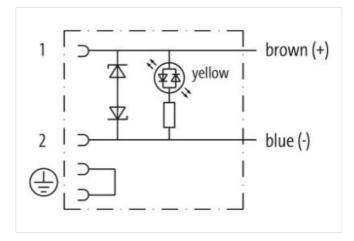
PUR 2x0.75 bk UL/CSA+drag ch. 5m

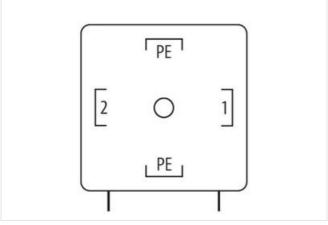
Xtreme - Outdoor
Further cable lengths on request.
MSUD
Form A (18 mm)
LED and suppression
12...24 V AC/DC
Diode/Z-Diode
Bridged PE
Stainless steel 1.4305 (V2A)
without cable sleeves

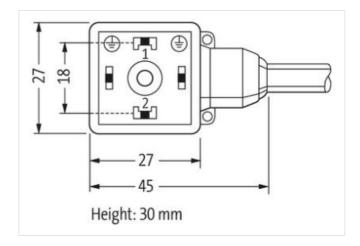
## **Link to Product**

## Illustration









Product may differ from Image





stay connected

Cable length	5 m
Side 1	
Mounting method	inserted, screwed
Coating contact	silver-plated
Family construction form	MSUD
Material contact	Copper alloy
No. of poles	4
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67, IP68
Side 2	
Coating contact	silver-plated
Commercial data	- · · · · ·
	07070040
ECLASS-6.0	27279218
ECLASS-6.1	27279218
ECLASS-7.0 ECLASS-8.0	27279218
ECLASS-9.0	27279218 27060312
ECLASS-9.0	
ECLASS-10.1	27060312 27060312
ECLASS-12.0 ETIM-5.0	27060312 EC001855
customs tariff number	85444290
GTIN	4048879306928
Packaging unit	1
Electrical data   Supply	
	40.1/
Operating voltage AC min.	12 V
Operating voltage AC max.	24 V
Operating voltage DC min. Operating voltage DC max.	12 V 24 V
Cut-off peak voltage max.	55 V
Current operating per contact max.	4 A
Current consumption max.	8 mA
Diagnostics	O III/
Status indication LED	yellow
Installation   Connection	
Tightening torque	0,4 Nm
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)	I
Additional suppressor	Diode, Z-Diode
Mechanical data	
Contour for corrugated hose	without
Mechanical data   Material data	
	black
Color housing	
Color housing  Material gasket	Silicon
_	Silicon PBT
Material gasket	
Material gasket  Material housing	PBT



stay connected

Diporating temperature max.   25 °C	Mounting method	Nut, Screw
Operating temperature max.         65 °C           Additional condition temperature range important installation notes         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 bendring radius         Attentions Cobserve the permissible bendring radii when laying cables, as the IP protection class can be endangered by successive bendring radii when laying cables, as the IP protection class can be endangered by successive bendring radii when laying cables, as the IP protection class can be endangered by successive bendring radii when laying cables, as the IP protection class can be endangered by successive bendring radii when laying cables, as the IP protection class can be endangered by successive bendring radii when laying cables, as the IP protection class can be endangered by successive bendring radii when laying cables, as the IP protection class can be endangered by successive bendring radii when laying cables, as the IP protection class can be endangered by successive bendring radii when laying cables, as the IP protection class can be endangered by successive bendring radii when laying cables, as the IP protection class can be endangered by successive bendring radii when laying cables, as the IP protection class can be endangered by successive bendring radii when laying cables, as the IP protection class can be endangered by successive bendring radii when laying cables, as the IP protection class can be endangered by successive bendring radii when laying cables, as the IP protection class can be endangered by successive bendring radii when laying cables, as the IP protection class can be endangered by successive bendring radii when laying cables, as the IP protection class can be endangered by successive bendring radii when laying ca	Environmental characteristics   Climatic	
Operating temperature max. 85 °C Additional condition temperature range independing on cable quality important installation notes Note on strain relief Note on bendring radius  Attention: Observe the permissible bendring radi when laying cables, as the IP protection class can be reforgaged by an exessive bendring forces.  Installation (Cable  Installation (Cable Service)  Installation (Ca	Operating temperature min.	-25 °C
Important initialiation notes	<u>'                                    </u>	
Note on stain related  Attention: Clearer the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Clearer the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Installation   Cable  wine arrangement brown, blue Cable identification 754 Cable identification 754 Cable identification United Cable (Cable Type 3) Jacket Color block Type of Certificatio United Cable (Cable Type 3) Jacket Color block Type of Certificatio United Cable (Cable Type 3) Jacket Color block Type of Certificatio United Cable (Cable Type 3) Jacket Color block Type of Certificatio United Cable (Cable Type 3) Jacket Color block Type of Certificatio United Cable (Cable Type 3) Jacket Color block Type of Certificatio United Cable (Cable Type 3) Jacket Color block Type of Certificatio United Cable (Cable Weight) Jacket Color block Type of Certificatio United Cable (Cable Weight) Jacket Color block Type of Certificatio United Cable (Cable Weight) Jacket Color block Type of Certification (Cable Weight) Jacket Color block Jac		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 bending radius Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endingered by excessive bending forces.  Installation (Cable  wive arrangement brown, blue Cable identification 754  Cable 17ype 3  3  3.40x4ct Color bluck Type of Certificate cURus Amount stranding 1  1 Straining 2 wives livisted  wire arrangement brown, blue Cable 19ype 3.40x4ct Color bluck Type of Certificate cURus Amount stranding 1  1 Straining 2 wives livisted  wire arrangement brown, blue Cable wilding 4,07 g/m Material jacket PUR Shore hardness jacket PUR Amount wires 2 2  Cuter diameter (jacket) 5 mm Cuter diameter (jacket) 70 ± 5 Shore D Impredient formace core insulation 17.7 mm  Outer diameter insulation 7 ± 5 Shore D Impredient fromace wire insulation 18 load fines, cardinum free, CFC-free, halogen-free, silicone-free  Conductor free insulation 7 ± 5 Shore D Impredient fromace wire insulation 18 load fines, cardinum free, CFC-free, halogen-free, silicone-free  Conductor diameter (silicone) 42  Diameter of single wires  Conductor free insulation 70 ± 5 Shore D Impredient fromace wire insulation 18 load fines, cardinum free, CFC-free, halogen-free, silicone-free  Conductor free insulation 70 ± 5 Shore D Impredient fromace wire insulation 18 load fines, cardinum free, CFC-free, halogen-free, silicone-free  Conductor free insulation 70 ± 5 Shore D Impredient fromace wire insulation 70 ± 5 Shore D Impredient fromace wire insulation 70 ± 5 Shore D Impredient fromace wire insulation 70 ± 5 Shore D Impredient fromace wire insulation 70 ± 5 Shore D Impredient fromace wire insulation 70 ± 5 Shore D Impredient fromace wire insulation 70 ± 5 Shore D Impredient fromace wire insulation 70 ± 5 Shore D Impredient fromace wire insulation 70 ±		
Alteritoric Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Installation   Cable    wire arrangement   Drown, blue   Cable Type   3   Jackert Cobr   black   Cable Type   3   Jackert Cobr   black   Cable Type   1   Cable Type	·	
endangered by excessive bending forces.  Installation   Cabbe    wire arrangement	Note on strain relief	
wire arrangement         brown, blue           Cable inflication         754           Cable Type         3           Jackel Color         black           Type of Certificate         cURus           Amount altranding         1           Stranding         2 wires twisted           wire arrangement         brown, blue           Cable weight         40,7 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from Ingradients (jacket)         1 mm           Outer-diameter (jacket)         5 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         2           Outer diameter insulation         1,7 mm	Note on bending radius	
Cable identification         754           Cable Type         3           Jacket Color         black           Type of Certificate         cURus           Amount stranding         1           Stranding         2 wires twisted           wire arrangement         brown, blue           Cable weight         40,7 g/m           Material jacket         PUR           Shore hardness jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         1ead-free, adminum-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         5 mm           Tolerance outer dameter (jacket)         5 mm           Valence diameter (jacket)         5 mm           Outer diameter (jacket)         5 %           Shore hardness wire insulation         PP           Amount strands wire insulation         70 ± 5 Shore D           Impedient freeness wire insulation         1ead-free, cadminum-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         42           Diameter of single wires <td>Installation   Cable</td> <td></td>	Installation   Cable	
Cable Type         3           Jacket Color         black           Jacket Color         black           Type of Certificate         cUFUs           Amount stranding         1           Stranding         2 wires twisted           wire arrangement         brown, blue           Cable weigth         40,7 g/m           Material Jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         5 mm           Tolerance unter diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         2           Quer diameter insulation         1,7 mm           Outer diameter insulation         1,7 mm           Outer diameter insulation         1,7 mm           Ingredient freeness wire insulation         2.5 %           Shore hardness wire insulation         2.5 %           Conductor sarcessection (wire)         42           Diameter of single wires         0,15 mm           Conductor type (wire)         5.5 mm           Material conductor wire         Stranded copper wire, bare	wire arrangement	brown, blue
Jacket Cotor black Type of Certificate cURus  Amount stranding 1  Stranding 2 wires twisted  wire arrangement brown, blue  Cable weight 40,7 g/m  Material jacket PUR  Shore hardness jacket Freedom from ingredients (jacket) 5 mm  Tolerance outer diameter (jacket) 5 mm  Amount wire insulation PP  Amount wires  2 Cuter diameter insulation PP  Amount wires  2 Cuter diameter insulation 1,7 mm  Cuter diameter tolerance core insulation 1 ead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Amount strands (wire) 42  Diameter of single wires 0,15 mm  Conductor gringe wires 0,15 mm  Conductor crosssection (wire) 0,75 mm²  Material conductor wire Stranded copper wire, bare  Conductor pinge wires 0,15 mm  Conductor gringe wires 0,25 kW 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Cable identification	754
Type of Certificate	Cable Type	3
Amount stranding         1           Stranding         2 wires twisted           wire arrangement         brown, blue           Cable weigth         40,7 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         5 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         2           Outer diameter tolerance core insulation         1,7 mm           Under diameter tolerance core insulation         2 5 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         12 ± 5 %           Amount strands (wire)         42           Diameter of single wires         0,15 mm           Conductor crosssection (wire)         0,75 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Nominal voltage AC max.         300 V           Current load capacity strandard;         to IN VDE 0238-4           Current load capacity win. wire	Jacket Color	black
Stranding         2 wires twisted           wire arrangement         brown, blue           Cable weight         40,7 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         1 lead-free, cadminum-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         5 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         2           Outer diameter blerance core insulation         1,7 mm           Outer diameter blerance core insulation         5 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         1,7 mm           Outer diameter blerance core insulation         42           Unameter of single wires         1 dead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         42           Diameter of single wires         0,15 mm           Conductor crosssection (wire)         0,75 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Nominal vortage AC max         300 V	Type of Certificate	cURus
wire arrangement brown, blue Cable weight 40,7 g/m Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cardmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 5 mm  Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 2  Curder diameter insulation 1,7 mm Outer diameter insulation 1,7 mm Outer diameter insulation 1,7 mm Outer diameter insulation 70 ± 5 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 42 Diameter of single wires 0,15 mm Conductor orossection (wire) 0,75 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max. 300 V Current load capacity min. wire 12 A Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 12 A Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 26 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2.5 kV @ 60 s Power frequency withstand voltage (wire - wire) 2.5 kV @ 60 s Power frequency withstand voltage (wire - wire) 2.5 kV @ 60 s Power frequency withstand voltage (wire - wire) 2.5 kV @ 60 s Power frequency withstand voltage (wire - wire) 2.5 kV @ 60 s Power frequency withstand voltage (wire - wire) 2.5 kV @ 60 s Power frequency withstand voltage (wire - wire) 2.5 kV @ 60 s Power frequency withstand voltage (wire - wire) 2.5 kV @ 60 s Power frequency withstand voltage (wire - wire) 2.5 kV @ 60 s Power frequency withstand voltage (wire - wire) 2.5 kV @ 60 s Power frequency withstand voltage (wire - wire) 2.5 kV @ 60 s Power frequency withstand voltage (wire - wire) 2.5 kV @ 60 s Power frequency withstand voltage (wire - wire) 2.5 kV @ 60 s Power frequency withstand voltage (wire - wire) 2.5 kV @ 60 s Power frequency withstand voltage (wire - wire) 2.5 kV @ 60 s Power frequency withstand voltage (wire - wire) 2.5 kV @ 60 s Power frequency withstand voltage (wire - wire) 2.5 kV @ 60 s Power	Amount stranding	1
Cable weight         40,7 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         5 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         2           Outer diameter insulation         1,7 mm           Outer diameter insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         42           Diameter of siling wires         0,15 mm           Conductor crosssection (wire)         0,75 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (wire wire)         2.5 kV @ 60 s           Power frequency withstand voltag	Stranding	2 wires twisted
Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         ± 5 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         2           Outer diameter tolerance core insulation         1,7 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         42           Diameter of single wires         0,15 mm           Conductor or disrigle wires         0,15 mm           Conductor vive (wire)         Stranded copper wire, bare           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standard)         to DIN VDE 0298-4	wire arrangement	brown, blue
Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         5 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         2           Outer diameter insulation         1,7 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         42           Diameter of single wires         0,15 mm           Conductor (wire)         0,75 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand dass 6           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (min wire)         12 A           Electrical resistance line constant wire         26 Ωkm @ 20 °C           AC withstand voltage (wire - wire)         2,5 kV @ 60 s           Power frequency withstand	Cable weigth	40,7 g/m
Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         5 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         2           Outer diameter insulation         1.7 mm           Outer diameter rolerance core insulation         ± 5 %           Shore hardness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         42           Diameter of single wires         0,15 mm           Conductor or cosssection (wire)         0,75 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         stranded copper wire, bare           Nominal voltage AC max.         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/Rm @ 20 °C           AC withstand voltage (wire - wire)         2,5 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2,5 kV @ 60 s	Material jacket	PUR
Outer-diameter (jacket)         5 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         2           Outer diameter tolerance core insulation         1,7 mm           Outer diameter tolerance core insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         42           Diameter of single wires         0,15 mm           Conductor crosssection (wire)         0,75 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Nominal voltage AC max.         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)         2,5 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2,5 kV @ 60 s           Min. operating temperature (static)         40 °C           Min. operating temperature min. (dynamic)         -25 °C	Shore hardness jacket	90 ± 5 Shore A
Tolerance outer diameter (sheath)	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Material wire insulation         PP           Amount wires         2           Outer diameter insulation         1,7 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         42           Diameter of single wires         0,15 mm           Conductor crosssection (wire)         0,75 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         12 A           Electrical resistance line constant wire         25 CNm @ 20 °C           AC withstand voltage (wire - wire)         2,5 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2,5 kV @ 60 s           Min. operating temperature (fixed)         80 °C / 90 °C @ 10000 h Operation           Operating temperature min. (dynamic)         25 °C           Operating temperature max. (dynamic)         25 °C           Operating temperature max. (dynamic)         25 °C	Outer-diameter (jacket)	5 mm
Amount wires         2           Outer diameter insulation         1,7 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         42           Diameter of single wires         0,15 mm           Conductor orssection (wire)         0,75 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         12 A           Electrical resistance line constant wire         26 0/km @ 20 °C           AC withstand voltage (wire - wire)         2,5 kV @ 60 s           Power frequency withstand voltage (wire - jacket)         2,5 kV @ 60 s           Min. operating temperature (fixed)         80 °C / 90 °C @ 10000 h Operation           Operating temperature min. (dynamic)         25 °C           Operating temperature max. (dynamic)         10 N EN ISO 4892-2 A           Flame resistance         UL 1581 § 1900   UL 1581 § 1100 FT2   IEC 60332-2 ·2           chemical re	Tolerance outer diameter (sheath)	±5%
Outer diameter insulation         1,7 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         42           Diameter of single wires         0,15 mm           Conductor crosssection (wire)         0,75 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Nominal voltage AC max.         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)         2,5 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2,5 kV @ 60 s           Min. operating temperature (static)         -40 °C           Max. operating temperature (fixed)         80 °C / 90 °C @ 10000 h Operation           UV resistance         DIN EN ISO 4892-2 A           Flame resistance         UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2           chemical resistance         Good, application-related testing           <	Material wire insulation	PP
Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         42           Dameter of single wires         0,15 mm           Conductor crosssection (wire)         0,75 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity win. wire         12 A           Electrical resistance line constant wire         26 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2,5 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2,5 kV @ 60 s           Min. operating temperature (static)         -40 °C           Max. operating temperature (fixed)         80 °C / 90 °C @ 10000 h Operation           Operating temperature min. (dynamic)         -25 °C           Operating temperature max. (dynamic)         -25 °C           Operating temperature max. (dynamic)         -25 °C           Flame resistance         DIN EN ISO 4892-2 A           Flame resistance <td>Amount wires</td> <td>2</td>	Amount wires	2
Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 42 Diameter of single wires 0,15 mm Conductor crosssection (wire) 0,75 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max. 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) 2,5 kV @ 60 s Power frequency withstand voltage (wire - iacket) lacket) 40 °C Max. operating temperature (static) 40 °C Max. operating temperature (static) 40 °C Operating temperature min. (dynamic) 25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Flame resistance Good, application-related testing Gasoline resistance DIN EN 60811-404   Good, application-related testing Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter	Outer diameter insulation	1,7 mm
Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 42 Diameter of single wires 0,15 mm Conductor crosssection (wire) 0,75 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max. 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) 2,5 kV @ 60 s Power frequency withstand voltage (wire - lacket) 40 °C Max. operating temperature (static) 40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Flame resistance Good, application-related testing Gasoline resistance DIN EN ISO 801-1-818 § 100 FT2   IEC 60332-2-2 chemical resistance DIN EN ISO 801-1-9144   Good, application-related testing Bending radius (fixed) 5 x Outer diameter  Bending radius (fixed) 5 x Outer diameter	Outer diameter tolerance core insulation	±5%
Amount strands (wire) 42 Diameter of single wires 0,15 mm Conductor crosssection (wire) 0,75 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max. 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) 2,5 kV @ 60 s Power frequency withstand voltage (wire - lacks) Min. operating temperature (static) 40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation UV resistance UU tisstance DIN EN ISO 4892-2 A Flame resistance Good, application-related testing Gasoline resistance DIN EN 60811-404   Good, application-related testing Bending radius (fixed) Bending radius (fixed) 5 x Outer diameter	Shore hardness wire insulation	70 ± 5 Shore D
Diameter of single wires 0,15 mm  Conductor crosssection (wire) 0,75 mm²  Material conductor wire Stranded copper wire, bare  Conductor type (wire) strand class 6  Nominal voltage AC max. 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) 2,5 kV @ 60 s  Power frequency withstand voltage (wire - igacket) 40 °C  Max. operating temperature (static) 40 °C  Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation  Operating temperature max. (dynamic) -25 °C  Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation  UV resistance DIN EN ISO 4892-2 A  Flame resistance UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2  chemical resistance Good, application-related testing  Gasoline resistance DIN EN 60811-404   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	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Conductor crosssection (wire)         0,75 mm²²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Nominal voltage AC max.         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)         2,5 kV @ 60 s           Power frequency withstand voltage (wire - jacket)         2,5 kV @ 60 s           Min. operating temperature (static)         -40 °C           Max. operating temperature (fixed)         80 °C / 90 °C @ 10000 h Operation           Operating temperature min. (dynamic)         -25 °C           Operating temperature max. (dynamic)         80 °C / 90 °C @ 10000 h Operation           UV resistance         DIN EN ISO 4892-2 A           Flamer resistance         UL 1581 § 1909   UL 1581 § 1100 FT2   IEC 60332-2-2           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 Out	Amount strands (wire)	42
Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       strand class 6         Nominal voltage AC max.       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)       2,5 kV @ 60 s         Power frequency withstand voltage (wire - jacket)       -40 °C         Min. operating temperature (static)       -40 °C         Max. operating temperature (fixed)       80 °C / 90 °C @ 10000 h Operation         Operating temperature min. (dynamic)       -25 °C         Operating temperature max. (dynamic)       80 °C / 90 °C @ 10000 h Operation         UV resistance       DIN EN ISO 4892-2 A         Flame resistance       UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2         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	Diameter of single wires	0,15 mm
Conductor type (wire)       strand class 6         Nominal voltage AC max.       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)       2,5 kV @ 60 s         Power frequency withstand voltage (wire - jacket)       -2,5 kV @ 60 s         Min. operating temperature (static)       -40 °C         Min. operating temperature (fixed)       80 °C / 90 °C @ 10000 h Operation         Operating temperature min. (dynamic)       -25 °C         Operating temperature max. (dynamic)       80 °C / 90 °C @ 10000 h Operation         UV resistance       DIN EN ISO 4892-2 A         Flame resistance       UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2         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	Conductor crosssection (wire)	0,75 mm <sup>2</sup>
Nominal voltage AC max.  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) 2,5 kV @ 60 s  Power frequency withstand voltage (wire - jacket)  Min. operating temperature (static) -40 °C  Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation  Operating temperature min. (dynamic) -25 °C  Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation  UV resistance DIN EN ISO 4892-2 A  Flame resistance UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2  chemical resistance Good, application-related testing  Gasoline resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter	Material conductor wire	Stranded copper wire, bare
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) 2,5 kV @ 60 s  Power frequency withstand voltage (wire - 2,5 kV @ 60 s  Min. operating temperature (static) -40 °C  Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation  Operating temperature min. (dynamic) -25 °C  Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation  UV resistance DIN EN ISO 4892-2 A  Flame resistance UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2  chemical resistance Good, application-related testing  Gasoline resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter	Conductor type (wire)	strand class 6
Current load capacity min. wire 12 A  Electrical resistance line constant wire 26 \( \Omega / \text{km} \) \( \omega 20 \text{ °C} \)  AC withstand voltage (wire - wire) 2.5 kV \( \omega 60 \text{ °S} \)  Power frequency withstand voltage (wire - 2.5 kV \( \omega 60 \text{ °S} \)  Min. operating temperature (static) -40 \( ^\omega C \)  Max. operating temperature (fixed) 80 \( ^\omega C \) \( ^\omega C \)  Operating temperature min. (dynamic) -25 \( ^\omega C \)  Operating temperature max. (dynamic) 80 \( ^\omega C \) \( ^\omega 0 \)  UV resistance DIN EN ISO 4892-2 A  Flame resistance UL 1581 \( \xi \) 1090   UL 1581 \( \xi \) 1100 FT2   IEC 60332-2-2  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	Nominal voltage AC max.	300 V
Current load capacity min. wire 12 A  Electrical resistance line constant wire 26 \( \Omega / \text{km} \) \( \omega 20 \text{ °C} \)  AC withstand voltage (wire - wire) 2.5 kV \( \omega 60 \text{ °S} \)  Power frequency withstand voltage (wire - 2.5 kV \( \omega 60 \text{ °S} \)  Min. operating temperature (static) -40 \( ^\omega C \)  Max. operating temperature (fixed) 80 \( ^\omega C \) \( ^\omega C \)  Operating temperature min. (dynamic) -25 \( ^\omega C \)  Operating temperature max. (dynamic) 80 \( ^\omega C \) \( ^\omega 0 \)  UV resistance DIN EN ISO 4892-2 A  Flame resistance UL 1581 \( \xi \) 1090   UL 1581 \( \xi \) 1100 FT2   IEC 60332-2-2  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	Current load capacity (standard)	to DIN VDE 0298-4
AC withstand voltage (wire - wire)  2,5 kV @ 60 s  Power frequency withstand voltage (wire - jacket)  Min. operating temperature (static)  Max. operating temperature (fixed)  Operating temperature min. (dynamic)  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  UV resistance  DIN EN ISO 4892-2 A  Flame resistance  UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2  chemical resistance  Good, application-related testing  Gasoline resistance  Oil resistance  DIN EN 60811-404   Good, application-related testing  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic)  10 x Outer diameter		12 A
AC withstand voltage (wire - wire)  Power frequency withstand voltage (wire - jacket)  Power frequency withstand voltage (wire - jacket)  Min. operating temperature (static)  Max. operating temperature (fixed)  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  ON EN ISO 4892-2 A  Flame resistance  UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2  chemical resistance  Good, application-related testing  Gasoline resistance  Oil resistance  DIN EN 60811-404   Good, application-related testing  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic)  10 x Outer diameter	Electrical resistance line constant wire	26 Ω/km @ 20 °C
jacket)  Min. operating temperature (static)  Max. operating temperature (fixed)  80 °C / 90 °C @ 10000 h Operation  Operating temperature min. (dynamic)  -25 °C  Operating temperature max. (dynamic)  80 °C / 90 °C @ 10000 h Operation  UV resistance  DIN EN ISO 4892-2 A  Flame resistance  UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2  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		2,5 kV @ 60 s
Min. operating temperature (static)  Max. operating temperature (fixed)  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  Oil N EN ISO 4892-2 A  Flame resistance  UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2  Chemical resistance  Good, application-related testing  Gasoline resistance  Oil resistance  DIN EN 60811-404   Good, application-related testing  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic)  10 x Outer diameter		2,5 kV @ 60 s
Max. operating temperature (fixed)  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  80 °C / 90 °C @ 10000 h Operation  UV resistance  DIN EN ISO 4892-2 A  Flame resistance  UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2  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	•	-40 °C
Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  80 °C / 90 °C @ 10000 h Operation  UV resistance  DIN EN ISO 4892-2 A  Flame resistance  UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2  chemical resistance  Good, application-related testing  Gasoline resistance  Oil resistance  DIN EN 60811-404   Good, application-related testing  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic)  10 x Outer diameter		80 °C / 90 °C @ 10000 h Operation
Operating temperature max. (dynamic)  80 °C / 90 °C @ 10000 h Operation  UV resistance  DIN EN ISO 4892-2 A  Flame resistance  UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2  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	Operating temperature min. (dynamic)	-25 °C
Flame resistance UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2 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		80 °C / 90 °C @ 10000 h Operation
Flame resistance UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2 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	UV resistance	DIN EN ISO 4892-2 A
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	Flame resistance	
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	chemical resistance	
Oil resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter		
Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter		
Bending radius (dynamic) 10 x Outer diameter		<u> </u>
No. of bending cycles (C-track) 10 Mio. @ 25 °C		10 Mio. @ 25 °C

The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-05-20



Traversing distance (C-track)	10 m @ 25 °C   horizontal
Travel speed (C-track)	3 m/s @ 25 °C
No. of torsion cycles	2 Mio.
Torsion stress	± 180 °/m
Torsion speed	35 cycles/min