

## M12 male 90° A-cod. / MSUD valve plug A-18mm

PUR 5x0.34 bk UL/CSA+drag ch. 3m

MSUD Form A (18 mm) – M12, male 90° 24 V DC ±25% LED (yellow/green) for pressure switches Further cable lengths on request.

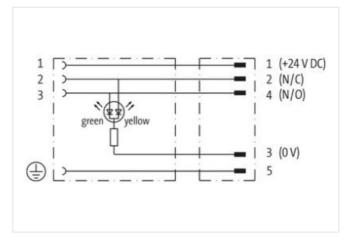
Plastic housings with good resistance against chemicals and oils.

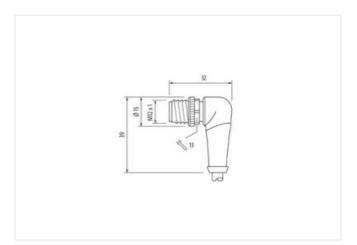
The resistance to aggressive media should be individually tested for your application. Further details on request.

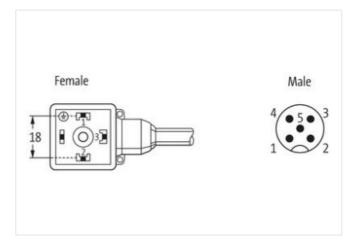
## **Link to Product**

## Illustration



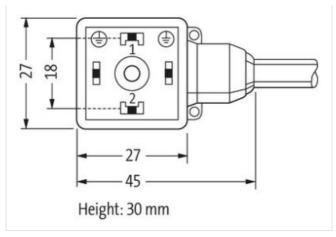








stay connected



Product may differ from Image



Cable length	3 m
Side 1	
Tightening torque	0,4 Nm
Family construction form	MSUD
Thread	M3
Degree of protection (EN IEC 60529)	IP66K, IP67
Side 2	
Tightening torque	0,6 Nm
Family construction form	M12
Thread	M12 x 1
Degree of protection (EN IEC 60529)	IP66K, IP67
Commercial data	
ECLASS-6.0	27279218
ECLASS-6.1	27279218
ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0	27060312
ECLASS-10.1	27060312
ECLASS-11.1	27060312
ECLASS-12.0	27060312
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879383035
Packaging unit	1
Electrical data   Supply	
Operating voltage DC	24 V
Operating voltage DC min.	18 V
Operating voltage DC max.	30 V
Current operating per contact max.	4 A
Current consumption max.	12 mA
Device protection   Electrical	



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Autor   Company   Compan	Additional condition protection degree	inserted, screwed
Mechanical data   Material data   Material data   Diack   Address Archives   Plastic   Mechanical data   Mounting data   Mount		
Dotor housing         black           Asterior in lousing         Plastic           Mounting method         insented, screwed           Environmental characteristics   Climatics		0,8 KV
Mechanical data   Mounting data	Mechanical data   Material data	
Mounting method inserted, screwed inserted, screwed inserted, screwed inserted, screwed inserted in the Environmental characteristics   Climatic Departing temperature max. 85°C Additional condition temperature mays. 85°C Additional conditions are also additional conditions and additional conditional conditional conditions are also additional conditional	Color housing	black
Revironmental characteristics   Climatic	Material housing	Plastic
Departure   International Characteristics   Climatic	Mechanical data   Mounting data	
Departating temperature max.   85 °C	Mounting method	inserted, screwed
Departure fremperature max.   85 °C   Generalized parture from the departure range   departure from the de	Environmental characteristics   Climatic	
Departure fremperature max.   85 °C   Generalized parture from the departure range   departure from the de	Operating temperature min	-25 °C
Major   Majo	<u> </u>	
Cable inflication   Cable		
Cable identification         635           Dable Type         3           Jacket Color         black           Type of Certificate         cURius           Amount stranding         1           Stranding         5 wise around Core filler twisted           Filler         yes           wife arrangement         brown, black, blue, white, green-yellow           Ko. of bending cycles (C-track)         10 Mic. @ 25 °C           Zable weigh         41.8 g/m           Material jacket         PUR           Fineredom from ingredients (gacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Unter-diameter (gacket)         4.8 mm           Tolerance outer dameter (sheath)         ± 5 %           Material wire insulation         pP           National Wire insulation         1,25 mm           Unter diameter insulation         1,25 mm           Unter diameter insulation         1,25 from D           Ingredient freeness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation	· · ·	asponanty on sauto quanty
Cable Type         3           Jackot Color         black           Jackot Color         black           Amount stranding         1           Stranding         5 wires around Core filler twisted           "Biller         yes           wire arrangement         brown, black, blue, white, green-yellow           Vo. of bending cycles (C-track)         10 Mo. Ø 25° C           Sable weigh         41.8 gm           Material jackot         PUR           Shore hardness jacket         90 ± 5 Shore A           **reedem from ingedients (jacket)         90 ± 5 Shore A           **Duter diameter (jacket)         4.8 mm           **Tolerance outer diameter (scheath)         ± 5 %           **Amount wires         5           **Duter diameter insulation         PP           **Amount wires         5           **Shore hardness wire insulation         70 ± 5 Shore D           **greedering freeness wire insulation         70 ± 5 Shore D           **greedering wires         0,1 mm           **Donductor type (wire)         42           **Diameter of single wires         0,1 mm           **Conductor type (wire)         \$ \$ **Amount strands (wire)           **Conductor type (wire)         \$ **Col horizontial	·	
Jacket Color   Diack   CURus		
Variety   Var		
Amount stranding         1           Stranding         5 wires around Core filler twisted           Filler         yes           wire arrangement         brown, black, blue, white, green-yellow           No. of bending cycles (C-track)         10 Mine, @ 25 °C           Sable weigh         41.8 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         4.8 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Material wire insulation         1,25 mm           Duter diameter (sheath)         ± 5 %           North diameter insulation         1,25 mm           Duter diameter (sheath)         ± 5 %           Shore hardness wire insulation         1,25 mm           Duter diameter (sheath)         ± 5 %           Shore hardness wire insulation         1,25 mm           Duter diameter (sheath)         ± 5 %           Shore hardness wire insulation         1,25 mm           Significance (swire)         4.2           Diameter of single wires         0,1 mm           Conductor type (wire)         Stranded copper wire, bare           Conductor type (wire) <td></td> <td></td>		
Stranding   5 wires around Core filler twisted   yes		
Filler yes wire arrangement brown, black, blue, white, green-yellow wire arrangement brown, black, blue, white, green-yellow No. of bending cycles (C-track) 10 Mis. @ 25 °C Zable weigth 41,8 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 Duter diameter (jacket) 4,8 mm Tolerance outer diameter (sheath) ± 5 % Amount wires 5 Duter diameter insulation PP Amount wires 5 Duter diameter rolerance core insulation 1,25 mm Duter diameter folerance core insulation 2 ± 5 % Shore hardness wire insulation 1,25 mm Duter diameter tolerance core insulation 2 ± 5 % Shore hardness wire insulation 1 tead-free, cadmium-free, CFC-free, halogen-free, silicone-free Minount strands (wire) 42 Diameter of siligney wires 0,1 mm Conductor crosssection (wire) 0,34 mm² Material conductor vire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C   horizontal Durrent load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,5 A Current load capacity min. wire 4,5 K @ 60 s Mac vire - jacket) 1 m @ 25 °C   Mis @ 20 °C Nominal voltage power AC max. 300 V  Power frequency withstand voltage power wire vire is greated presentative (fixed) 80 °C / 90 °C @ 10000 h Operation Diameter of sing temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Diameter of sing temperature min. (dynamic) -25 °C Diperating temperature min. (dynamic) -25 °C Di		
brown, black, blue, white, green-yellow  No. of bendring cycles (C-track)  10 Mio. @ 25 °C  Zable weight  41.8 g/m  Material jacket  PUR  Shore hardness jacket  90 ± 5 Shore A  Freedom from ingredients (jacket)  10 Mio. @ 25 °C  Lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Duter-diameter (jacket)  4,8 mm  Tolerance outer diameter (sheath)  ± 5 %  Material wire insulation  PP  Amount wires  5  Duter diameter insulation  70 ± 5 Shore D  Ingredient freeness wire insulation  70 ± 5 Shore D  Ingredient freeness wire insulation  70 ± 5 Shore D  Ingredient freeness wire insulation  Amount strandes (wire)  42  Diameter of single wires  0,1 mm  Conductor crosssection (wire)  3,34 mm²  Material conductor wire  Conductor type (wire)  stranded copper wire, bare  Conductor type (wire)  stranded copper wire, bare  Conductor type (wire)  strand class 6  Traversing distance (C-track)  10 m @ 25 °C (horizontal  Current load capacity min. wire  4,5 A  Electrical resistance line constant wire  57 Ω/km @ 20 °C  Nominal voltage power AC max.  300 V  Power frequency withstand voltage power (wire - wire)  Max. operating temperature (fixed)  80 °C / 90 °C @ 10000 h Operation  Diversistance  Div Risistance  Div Ris	5	
No. of bending cycles (C-track) 2able weight 41,8 g/m Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) 10 dead-free, cadmium-free, CFC-free, halogen-free, silicone-free Collementer (jacket) 4,8 mm Collementer (jacket) 4,8 mm Collementer (jacket) 4,8 mm Collementer outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 5 Coulder diameter insulation 1,25 mm Couter diameter tolerance core insulation 27 ± 5 Shore D Ingredient freeness wire insulation 1,25 mm Collementer tolerance core insulation 1,25 mm Collementer folerance wire insulation 1,25 mm Collementer of single wires Conductor orosseaction (wire) 2,3 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand dapacity (standard) Courrent load capacity min. wire 4,5 A Courrent load capacity (standard) Courrent load capacity (standa		·
Cable weight         41.8 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           Duter-diameter (jacket)         4,8 mm           Follerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         5           Duter diameter tolerance core insulation         1,25 mm           Duter diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         1,25 mm           Duter diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         1,25 mm           Outer diameter tolerance core insulation         1,25 mm           Outer diameter (insulation)         1,25 mm           Outer diameter (insulation)         1,25 mm           Outer diameter (insulation)         1,25 mm           Outer (insulations)         42           Diameter of single wires         0,1 mm           Outer diameter (wire)         3,4 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Traversing dis	wire arrangement	
Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Duter-diameter (jacket)         4,8 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         5           Duter diameter tolerance core insulation         1,25 mm           Duter diameter tolerance core insulation         70 ± 5 Shore D           Shore hardness wire insulation         162 Free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         42           Diameter of single wires         0,1 mm           Conductor crosssection (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Traversing distance (C-track)         10 m @ 25 °C   Invizontal           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4,5 A           Electrical resistance line constant wire         57 Ω/km @ 20 °C           Nowinal voltage power (wire - wire)         2,5 kV @ 60 s           AG withstand voltage power (wire - wire)		
Shore hardness jacket   90 ± 5 Shore A		
Freedom from ingredients (jacket)  Duter-diameter (jacket)  4,8 mm  Tolerance outer diameter (sheath)  ± 5 %  Material wire insulation  PP  Amount wires  5  Duter diameter insulation  1,25 mm  Duter diameter rolerance core insulation  25 %  Shore hardness wire insulation  1ead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Amount strands (wire)  42  Diameter of single wires  Onductor rorsssection (wire)  3,4 mm²  Material work wire insulation  To ± 5 knore  Stranded copper wire, bare  Sonductor vires  Conductor vire  Stranded copper wire, bare		
Duter-diameter (jacket)         4,8 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         5           Duter diameter insulation         1,25 mm           Duter 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         0,1 mm           Conductor rosssection (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Traversing distance (C-track)         10 m @ 25 °C   horizontal           Current load capacity min. wire         4,5 A           Electrical resistance line constant wire         57 Ωkm @ 20 °C           Nominal voltage power AC max.         300 V           Power frequency withstand voltage power (wire - wire)         2,5 kV @ 60 s           AC withstand voltage power (wire - wire)         2,5 kV @ 60 s           Win. operating temperature (static)         -40 °C           Max. operating temperature (fixed)         80 °C / 90 °C @ 10000 h Operation </td <td></td> <td></td>		
Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         5           Outer diameter insulation         1,25 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         0,1 mm           Conductor rosssection (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Traversing distance (C-track)         10 m @ 25 °C   horizontal           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4,5 A           Electrical resistance line constant wire         57 Ω/km @ 20 °C           Nominal voltage power AC max.         300 V           20wer frequency withstand voltage power (wire - wire)         2,5 kV @ 60 s           Min. operating temperature (static)         -40 °C           Max. operating temperature (fixed)         80 °C / 90 °C @ 1		lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Material wire insulation         PP           Amount wires         5           Duter diameter insulation         1,25 mm           Duter 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         0,1 mm           Conductor cosssection (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Traversing distance (C-track)         10 m @ 25 °C   horizontal           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4,5 A           Electrical resistance line constant wire         57 Ω/km @ 20 °C           Nominal voltage power AC max.         300 V           Power frequency withstand voltage power wire - wire)         2,5 kV @ 60 s           AC withstand voltage power (wire - wire)         2,5 kV @ 60 s           Min. operating temperature (static)         40 °C           Max. operating temperature (fixed)         80 °C / 90 °C @ 10000 h Operation           Deperating temperature min. (dynamic) </td <td></td> <td>·</td>		·
Amount wires         5           Duter diameter insulation         1,25 mm           Duter 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         0,1 mm           Conductor crosssection (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Traversing distance (C-track)         10 m @ 25 °C   horizontal           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4,5 A           Electrical resistance line constant wire         57 Ω/km @ 20 °C           Nominal voltage power AC max.         300 V           Power frequency withstand voltage power (wire - wire)         2,5 kV @ 60 s           AC withstand voltage power (wire - wire)         2,5 kV @ 60 s           MXx. operating temperature (fixed)         80 °C / 90 °C @ 10000 h Operation           Operating temperature min. (dynamic)         -25 °C           Operating temperature max. (dynamic)         25 °C           Din EN ISO 4892-2 A<		
Duter diameter insulation         1,25 mm           Duter 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         0,1 mm           Conductor crosssection (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Traversing distance (C-track)         10 m @ 25 °C   horizontal           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4.5 A           Electrical resistance line constant wire         57 Ω/km @ 20 °C           Nominal voltage power AC max.         300 V           Power frequency withstand voltage power (wire - wire)         2.5 kV @ 60 s           AC withstand voltage power (wire - wire)         2.5 kV @ 60 s           Min. operating temperature (fixed)         80 °C / 90 °C @ 10000 h Operation           Operating temperature (strate)         80 °C / 90 °C @ 10000 h Operation           Operating temperature max. (dynamic)         -25 °C           Operating temperature max. (dynamic)         80 °C / 90 °	Material wire insulation	
Duter 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         0,1 mm           Conductor orsssection (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Traversing distance (C-track)         10 m @ 25 °C   horizontal           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4.5 A           Electrical resistance line constant wire         57 Ω/km @ 20 °C           Nominal voltage power AC max.         300 V           Power frequency withstand voltage power (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 max. (dynamic)         -25 °C           Operating temperature max. (dynamic)         80 °C / 90 °C @ 10000 h Operation           JV resistance         DIN EN ISO 4892-2 A           Flame resistance         UL 1581 § 1100 FT2   UL 1581 § 1090   I	Amount wires	
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 0,1 mm Conductor crosssection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C   horizontal Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,5 A Electrical resistance line constant wire 57 Ω/km @ 20 °C Nominal voltage power AC max. 300 V Power frequency withstand voltage power wire - yis kV @ 60 s  AC withstand voltage power (wire - wire) 2,5 kV @ 60 s  Max. operating temperature (static) 40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Diperating temperature min. (dynamic) -25 °C Diperating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation  JV resistance DIN EN ISO 4892-2 A Flame resistance  UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2	Outer diameter insulation	1,25 mm
Ingredient freeness wire insulation Iead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Amount strands (wire) 42 Diameter of single wires 0,1 mm Conductor crosssection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C   horizontal Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,5 A Electrical resistance line constant wire 57 Q/km @ 20 °C Nominal voltage power AC max. 300 V Power frequency withstand voltage power wire - vire - jacket) AC withstand voltage power (wire - wire) 4,5 kV @ 60 s  AC withstand voltage power (wire - wire) 4,5 kV @ 60 s  AC withstand voltage power (wire - wire) 4,5 kV @ 60 s  AC withstand voltage power (wire - wire) 4,5 kV @ 60 s  AC withstand voltage power (wire - wire) 4,5 kV @ 60 s  AC withstand voltage power (wire - wire) 4,5 kV @ 60 s  AC withstand voltage power (wire - wire) 4,5 kV @ 60 s  AC withstand voltage power (wire - wire) 4,5 kV @ 60 s  AC withstand voltage power (wire - wire) 4,5 kV @ 60 s  AC withstand voltage power (wire - wire) 4,5 kV @ 60 s  AC withstand voltage power (wire - wire) 5,5 kV @ 60 s  AC withstand voltage power (wire - wire) 5,5 kV @ 60 s  AC withstand voltage power (wire - wire) 5,5 kV @ 60 s  AC withstand voltage power (wire - wire) 5,5 kV @ 60 s  AC withstand voltage power (wire - wire) 5,5 kV @ 60 s  AC withstand voltage power (wire - wire) 5,5 kV @ 60 s  AC withstand voltage power (wire - wire) 5,5 kV @ 60 s  AC withstand voltage power (wire - wire) 5,5 kV @ 60 s  AC withstand voltage power (wire - wire) 5,6 kV @ 60 s  AC withstand voltage power (wire - wire) 5,6 kV @ 60 s  AC withstand voltage power (wire - wire) 5,6 kV @ 60 s  AC withstand voltage power (wire - wire) 5,7 kV @ 60 s  AC withstand voltage power (wire - wire) 5,7 kV @ 60 s  AC withstand voltage power (wire - wire) 5,7 kV @ 60 s  AC withstand voltage power (wire - wire) 5,7 kV @ 60 s  AC withstand voltage power (wire - wire) 5,7 kV @ 60 s  AC wit	Outer diameter tolerance core insulation	
Amount strands (wire) 42 Diameter of single wires 0,1 mm Conductor crosssection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C   horizontal Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,5 A Electrical resistance line constant wire 57 Ω/km @ 20 °C Nominal voltage power AC max. 300 V Power frequency withstand voltage power wire - wire) 4,5 kV @ 60 s AC withstand voltage power (wire - wire) 4,5 kV @ 60 s Min. operating temperature (static) 40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Diperating temperature max. (dynamic) 48 °C / 90 °C @ 10000 h Operation Div resistance UL 1581 § 1100 FT2   UL 1581 § 1900   IEC 60332-2-2	Shore hardness wire insulation	70 ± 5 Shore D
Diameter of single wires       0,1 mm         Conductor crosssection (wire)       0,34 mm²         Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       strand class 6         Fraversing distance (C-track)       10 m @ 25 °C   horizontal         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity min. wire       4,5 A         Electrical resistance line constant wire       57 Ω/km @ 20 °C         Nominal voltage power AC max.       300 V         Power frequency withstand voltage power (wire - gicket)       2,5 kV @ 60 s         AC withstand voltage power (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)       80 °C / 90 °C @ 10000 h Operation         JV resistance       DIN EN ISO 4892-2 A         Flame resistance       UL 1581 § 1100 FT2   UL 1581 § 100   IEC 60332-2-2	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Conductor crosssection (wire)  Material conductor wire  Stranded copper wire, bare  St	Amount strands (wire)	
Material conductor wire  Stranded copper wire, bare  Stranded copper wire, bare  Strand class 6  Traversing distance (C-track)  10 m @ 25 °C   horizontal  Current load capacity (standard)  Current load capacity (standard)  Current load capacity min. wire  4,5 A  Electrical resistance line constant wire  57 Ω/km @ 20 °C  Nominal voltage power AC max.  300 V  Power frequency withstand voltage power (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)  80 °C / 90 °C @ 10000 h Operation  UV resistance  DIN EN ISO 4892-2 A  Flame resistance  UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2		0,1 mm
Conductor type (wire) strand class 6  Fraversing distance (C-track) 10 m @ 25 °C   horizontal  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4,5 A  Electrical resistance line constant wire 57 \( \Omega / \text{km} \) @ 20 °C  Nominal voltage power AC max. 300 V  Power frequency withstand voltage power (wire - wire) 2,5 kV @ 60 s  AC withstand voltage power (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) 80 °C / 90 °C @ 10000 h Operation  UV resistance DIN EN ISO 4892-2 A  Flame resistance UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2		·
Traversing distance (C-track)  10 m @ 25 °C   horizontal  Current load capacity (standard)  to DIN VDE 0298-4  Current load capacity min. wire  4,5 A  Electrical resistance line constant wire  57 Ω/km @ 20 °C  Nominal voltage power AC max.  300 V  Power frequency withstand voltage power wire - jacket)  AC withstand voltage power (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 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 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2		Stranded copper wire, bare
Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4,5 A  Electrical resistance line constant wire 57 Ω/km @ 20 °C  Nominal voltage power AC max. 300 V  Power frequency withstand voltage power wire - jacket) 2,5 kV @ 60 s  AC withstand voltage power (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) 80 °C / 90 °C @ 10000 h Operation  UV resistance DIN EN ISO 4892-2 A  Flame resistance UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2		
Current load capacity min. wire 4,5 A  Electrical resistance line constant wire 57 \( \Omega \) / km \( \omega \) 20 °C  Nominal voltage power AC max. 300 V  Power frequency withstand voltage power (wire - gacket) 2,5 kV \( \omega \) 60 s  AC withstand voltage power (wire - wire) 2,5 kV \( \omega \) 60 s  Min. operating temperature (static) -40 °C  Max. operating temperature (fixed) 80 °C / 90 °C \( \omega \) 10000 h Operation  Operating temperature min. (dynamic) -25 °C  Operating temperature max. (dynamic) 80 °C / 90 °C \( \omega \) 10000 h Operation  JV resistance DIN EN ISO 4892-2 A  Flame resistance UL 1581 \( \circ \) 1100 FT2   UL 1581 \( \circ \) 1090   IEC 60332-2-2		
Electrical resistance line constant wire 57 Ω/km @ 20 °C  Nominal voltage power AC max. 300 V  Power frequency withstand voltage power wire - jacket) 2,5 kV @ 60 s  AC withstand voltage power (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) 80 °C / 90 °C @ 10000 h Operation  JV resistance DIN EN ISO 4892-2 A  Flame resistance UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2		
Nominal voltage power AC max.  300 V  Power frequency withstand voltage power (wire - jacket)  AC withstand voltage power (wire - wire)  2,5 kV @ 60 s  Min. operating temperature (static)  Max. operating temperature (fixed)  Deperating temperature min. (dynamic)  25 °C  Deperating temperature max. (dynamic)  300 V  2,5 kV @ 60 s  40 °C	Current load capacity min. wire	· · · · · · · · · · · · · · · · · · ·
Power frequency withstand voltage power wire - jacket)  AC withstand voltage power (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)  80 °C / 90 °C @ 10000 h Operation  UV resistance  DIN EN ISO 4892-2 A  Flame resistance  UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2	Electrical resistance line constant wire	
AC withstand voltage power (wire - wire)  AC withstand voltage power (wire - wire)  2,5 kV @ 60 s  Win. 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  JV resistance  DIN EN ISO 4892-2 A  Flame resistance  UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2	Nominal voltage power AC max.	300 V
Min. operating temperature (static)  Max. operating temperature (fixed)  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  Bo °C / 90 °C @ 10000 h Operation  Operating temperature max. (dynamic)  Bo °C / 90 °C @ 10000 h Operation  Operating temperature max. (dynamic)  DIN EN ISO 4892-2 A  Flame resistance  UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2	(wire - jacket)	
Max. operating temperature (fixed)  Deperating temperature min. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  B0 °C / 90 °C @ 10000 h Operation  Operating temperature max. (dynamic)  B0 °C / 90 °C @ 10000 h Operation  OIN EN ISO 4892-2 A  Flame resistance  UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2	AC withstand voltage power (wire - wire)	
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 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2	Min. operating temperature (static)	-40 °C
Operating temperature max. (dynamic)         80 °C / 90 °C @ 10000 h Operation           UV resistance         DIN EN ISO 4892-2 A           Flame resistance         UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2	Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
JV resistance         DIN EN ISO 4892-2 A           Flame resistance         UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2	Operating temperature min. (dynamic)	-25 °C
Flame resistance UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2	Operating temperature max. (dynamic)	80 °C / 90 °C @ 10000 h Operation
	UV resistance	DIN EN ISO 4892-2 A
chemical resistance Good, application-related testing	Flame resistance	UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2
	chemical resistance	Good, application-related testing



Gasoline resistance	Good, application-related testing
Oil resistance	Good, application-related testing   DIN EN 60811-404
Bending radius (fixed)	5 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter
No. of torsion cycles	2 Mio.
Torsion speed	35 cycles/min
Torsion stress	± 180 °/m