

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

PUR 5x0.34 bk UL/CSA+robot+drag ch. 2m

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

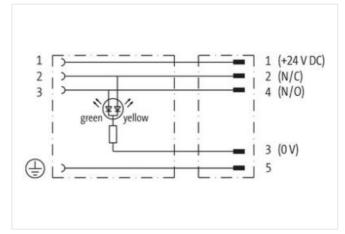
Plastic housings with good resistance against chemicals and oils.

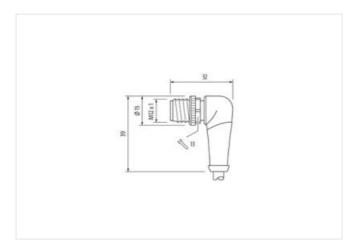
The resistance to aggressive media should be individually tested for your application. Further details on request.

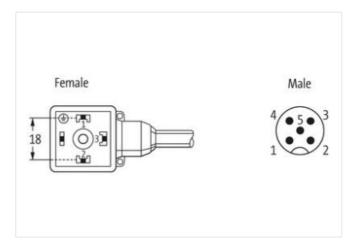
## **Link to Product**

## Illustration











stay connected



Product may differ from Image



Cable length	2 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	4048879610797
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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Note to surge voltage  Mochanical data   Material data    Mochanical data   Material data    Mochanical data   Material data    Mochanical data   Mounting delta    Mochanical data   Mounting delta    Mochanical data   Mounting delta    Mounting method    Inserted, screwed    Environmental characteristics   Climatic    Downsting impression or many delta    Downsting impression or mochanical data    Mounting method    85 °C    Downsting impression or mochanical loads, e.g., by the usage of cable toes.  Attention: Observe the permissible bending radia when laying cables, as the IP protection class can be endangered by occasive bending forces.  Installation   Cable    Zable identification    25 °C    25 °C    Mothod to stain radial    Motho	Additional condition protection degree	inserted, screwed
Mechanical data   Maintrial data   Maintrial data   Maintrial data   Mounting data   Mechanical data   Moun	Rated surge voltage	0,8 kV
Desire   D		
Mechanical data   Mounting data  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Diparating temperature min. 25 °C  Diparating temperature max. 85 °C  Meditional condition temperature range depending on cable quality  Important installation notes  Motion on starin risellation notes  Note on starin risellation notes  Attention: Chareve the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Installation   Cable  Label demittication   655  Label Type   5  Liscket Color   5  Liscket Color	·	
Mounting method inserted, screwed  Environmental characteristics   Climator  Diperating temperature min. 25° °C  Diperating temperature max. 85° °C  Additional condition temperature range depending on cable quality  Important installation notes  Wolco on stain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tres.  Note on bending radius Affection Chosene the permissible bending radii when laying cables, as the IP protection class can be ondargered by excessive bending forces.  Installation   Cable  Installation		
Inserted, screwed		Plastic
Environmental characteristics   Climatic  Operating temperature max, 25 °C  Additional condition temperature range depending on cable quality  Important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g., by the usage of cable flee.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be entangered by excessive bending forces.  Installation   Cable    Zable dentification   555    Saleket Color   Black    Starket Color   Black    Stranding   5 wires around Core filter twisted    Iller   yes    Wes arrangement   brown, black, blue, white, green-yellow    Zable veight   41,8 g/m    Malerial jacket   58 ± 3. Shore    Freedom from ingredients (jacket)   58 ± 3. Shore    Shore handness jacket   58 ± 5. Shore    Shore handness jacket   58 ± 5. Shore    Marerial freedom from ingredients (jacket)   25 %    Marerial freedom outer diameter (sheath)   2.5 %    Marerial freeness wire insulation   74 ± 2.5 Nore    Marerial freeness wire insulation   74 ± 2.5 Nore    Marerial freeness wire insulation   74 ± 2.5 Nore    Mount stranding wire   3	Mechanical data   Mounting data	
Operating temperature min. 45 °C Operating temperature max. 85 °C Operating temperature max. 95 °C Operating temperature files of the ma	Mounting method	inserted, screwed
Deperating temperature max. 85 °C depending on cable quality depending on cable quality important installation notes  Note on strain reliet Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable lies. Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Installation   Cable    Cable Identification	Environmental characteristics   Climatic	
Important Installation notes	Operating temperature min.	-25 °C
Important installation notes         Protect the connectors by suitable measures from mechanical loads, e.g., by the usage of cable ties.           Note on bending radius         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Installation   Cable         Cable Identification         655           Cable (type)         5           Lacket Color         black           Immount stranding         1           Stranding         5 wires around Core filler twisted           Fillier         yes           wire arrangement         brown, black, blue, white, green-yellow           State leveligh         41.8 g/m           Malerial jacket         PUR           Shore hardness jacket         58.3 Shore D           Freedom from ingredients (jacket)         5 ± 5%           Under diameter (shealth)         ± 5 %           Dutter diameter (shealth)         ± 5 %           Dutter diameter insulation         74 ± 3 Shore D           Underdiameter insulation         74 ± 3 Sh	Operating temperature max.	85 °C
Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Installation   Cable  Table Installation   Cable  Table Installation   Cable    Table Installation   Cable Installation	Additional condition temperature range	depending on cable quality
Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.    Installation   Gable	Important installation notes	
Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.    Installation   Gable		Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties
Installation   Gable   Cable identification   655   Cable Type   5   Cable Type   5   Cable Type   6   Cable Type   6   Cable Core   Ca		Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be
Cable identification         655           Dable Type         5           Jacket Color         black           Vipe of Certificate         cURus           Amount stranding         1           Stranding         5 wire arround Core filler twisted           Filler         yes           wire arrangement         brown, black, blue, white, green-yellow           Zable weight         41,8 g/m           Walterial jacket         PUR           Shore hardness jacket         58 ± 3 Shore D           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Uster-diameter (jacket)         5 mm           Tolerance outer diameter (jacket)         5 mm           Duter diameter insulation         1,25 mm           Duter diameter insulation         1,25 mm           Duter diameter insulation         1,25 mm           Outer diameter insulation         1,25 mm           Outer diameter insulation         1,25 mm           Outer diameter insulation         1,25 mm           Ingredient freeness wi		endangered by excessive bending forces.
Cable Type         5           Jacket Color         black           Vege of Certificate         cURus           Amount stranding         1           Stranding         5 wires around Core filler twisted           view arrangement         yes           Valenting Jacket         90           Cable weigth         41.8 g/m           Material jacket         PUR           Shore hardness jacket         58 ± 3 Shore D           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         5           Duter diameter insulation         1,25 mm           Outer diameter insulation         1,25 mm           Shore hardness wire insulation         1,4 ± 3 Shore D           Ingredient freeness wire insulation         1,4 ± 3 Shore D           Ingredient freeness wire insulation         1,4 ± 3 Shore D           Ingredient freeness wire insulation         1,4 ± 3 Shore D           Ingredient freeness wire insulation         1,5 mm           Conductor tyric         2,5 mm           Conductor type (	Installation   Cable	
Discretificate   Color   Discretificate   CuRus	Cable identification	655
Type of Certificate         cURus           Amount Standing         1           Sizirading         5 wires around Core filler twisted           Filler         yes           wire arrangement         brown, black, blue, white, green-yellow           Zable weight         41,8 g/m           Material jacket         PUR           Shore hardness jacket         58 ± 3 Shore D           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Duter-diameter (jacket)         5 mm           Olderance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         5           Shore hardness wire insulation         1,25 mm           Duter diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         74 ± 3 Shore D           ergedient freeness wire insulation         42           Diameter of single wires         0,1 mm           Conductor grossection (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Auterial conductor type (wire)         strand class 6           Traversing distance (C-track)         5 m @ 25 °C   horizontal           Nominal voltage AC	Cable Type	5
Amount stranding         1           Stranding         5 wires around Core filler twisted           Filler         yes           wire arrangement         brown, black, blue, white, green-yellow           Cable weigth         41,8 g/m           Material jacket         PUR           Shore hardness jacket         58 ± 3 Shore D           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Duter-diameter (jacket)         5 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wire insulation         1,25 mm           Duter diameter befarence core insulation         1,25 mm           Duter diameter berance core insulation         ± 5 %           Amount strands (wire)         42           Diameter of single wires         0,1 mm           Onductor crosssection (wire)         42           Diameter of single wires         0,1 mm           Onductor type (wire)         stranded copper wire, bare           Conductor type (wire)         stranded copper wire, bare           Conductor type (wire)         stranded copper wire, bare           Coursent load capacity (standard)         to DIN VDE 0298-4           Current	Jacket Color	black
Stranding 5 wires around Core filler twisted  yes wire arrangement brown, black, blue, white, green-yellow  Zable weigh 41,8 g/m Material jacket PUR  Shore hardness jacket 58 ± 3 Shore D Freedom from ingredients (jacket)   Ead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Duter-diameter (jacket)   5 mm  Tolerance outer diameter (sheath)   ± 5 %  Material wire insulation PP  Amount wires  Duter diameter insulation   PP  Amount wires   5  Duter diameter insulation   1,25 mm  Duter diameter insulation   74 ± 3 Shore D  Ingredient freeness wire insulation   1,25 free   PP  Amount wires wire insulation   1,25 mm  Duter diameter folerance core insulation   4 ± 5 %  Shore hardness wire insulation   1,25 mm  Duter diameter of single wires   1,25 mm  Double of single wires   1,25 mm  Double of single wires   0,1 mm  Conductor crosssection (wire)   0,34 mm²  Conductor vive (wire)   0,34 mm²  Conductor wire (Stranded copper wire, bare  Conductor type (wire)   strand class 6  Traversing distance (C+rack)   5 m @ 25 °C   horizontal  Nominal voltage AC max   300 V  Current load capacity min. wire   4,5 A  Electrical resistance line constant wire   60 Ωkm @ 20 °C  AC withstand voltage (wire - wire)   2,5 kV @ 60 s  Power frequency withstand voltage (wire - acket)   40 °C  Wax. operating temperature (fixed)   80 °C / 90 °C @ 10000 h Operation  Deparating temperature (fixed)   40 °C  Wax. operating temperature (fixed)   80 °C / 90 °C @ 10000 h Operation	Type of Certificate	cURus
yes	Amount stranding	1
brown, black, blue, white, green-yellow  2able weigth 41,8 g/m  Waterial jacket PUR  Shore hardness jacket 58 ± 3 Shore D  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Duter-diameter (jacket) 5 mm  Folerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 5  Duter diameter insulation 1,25 mm  Duter diameter insulation 1,25 mm  Duter diameter loserance core insulation 1,25 mm  Duter diameter folerance swire insulation 74 ± 3 Shore D  Ingredient freeness wire insulation 1,42 shore D  Ingredient freeness wire insulation 1,34 mm  Amount strands (wire) 42  Diameter of single wires 0,1 mm  Conductor crosssection (wire) 0,34 mm²  Material conductor wire 5tranded copper wire, bare  Conductor type (wire) strand class 6  Traversing distance (C-track) 5 m @ 25 °C   horizontal  Nominal voltage AC max. 300 V  Durrent load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4,5 A  Electrical resistance line constant wire 60 Ω/m @ 20 °C  AC withstand voltage (wire - wire) 2,5 kV @ 60 s  Min. operating temperature (static) -40 °C  Max. operating temperature (static) -40 °C  Max. operating temperature (static) -40 °C  Max. operating temperature min. (dynamic) -25 °C	Stranding	5 wires around Core filler twisted
Cable weigth 41,8 g/m  Material jacket PUR  Shore hardness jacket 58 ± 3 Shore D  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Duter-diameter (jacket) 5 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 5  Duter diameter insulation 1,25 mm  Duter diameter insulation 1,25 mm  Duter diameter insulation 2 ± 5 %  Shore hardness wire insulation 74 ± 3 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) 5 m @ 25 °C   horizontal  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 ins. wire 4,5 A  Electrical resistance line constant wire 60 Ω/km @ 20 °C  AC withstand voltage (wire - wire) 2,5 kV @ 60 s  Power frequency withstand voltage (wire - acket) 40 °C  Mix. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation  Deparating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation	Filler	yes
Material jacket         PUR           Shore hardness jacket         58 ± 3 Shore D           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Duter-diameter (jacket)         5 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         5           Duter diameter insulation         1,25 mm           Duter diameter insulation         1,25 mm           Duter diameter insulation         74 ± 3 Shore D           Ingredient freeness wire insulation         74 ± 3 Shore D           Ingredient freeness wire insulation         12 ± 3 Shore D           Ingredient freeness wire insulation         14 ± 2           Amount strands (wire)         42           Diameter of single wires         0,1 mm           Conductor vire         Stranded copper wire, bare           Conductor type (wire)         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Fraversing distance (C-track)         5 m @ 25 °C   horizontal           Nominal voltage AC max.         300 V           Current load capacity (standard)         to Dil VDE 0298-4           Current load capacity (standard)         to Dil VDE 020 °C	wire arrangement	brown, black, blue, white, green-yellow
Shore hardness jacket         58 ± 3 Shore D           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Duter-diameter (jacket)         5 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         4 ± 3 Shore D           Ingredient freeness wire insulation         74 ± 3 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)         5 m @ 25 °C   horizontal           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4,5 A           Electrical resistance line constant wire         60 Ω/km @ 20 °C           AC withstand voltage (wire - wire)	Cable weigth	41,8 g/m
Treedom from ingredients (jacket)   lead-free, cadmium-free, CFC-free, halogen-free, silicone-free	Material jacket	PUR
Duter-diameter (jacket)         5 mm           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         74 ± 3 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)         5 m @ 25 °C   horizontal           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standard)         to DIN VDE 0298-4           Cilectrical resistance line constant wire         4,5 A           Electrical resistance line constant wire         60 0/km @ 20 °C           AC withstand voltage (wire - wire)         2,5 kV @ 60 s           Power frequency withstand voltage (wire - acket)         40 °C	Shore hardness jacket	58 ± 3 Shore D
Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 5  Duter diameter insulation 1,25 mm  Duter diameter tolerance core insulation 74 ± 3 Shore D  Ingredient freeness wire insulation 1ead-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  Fraversing distance (C-track) 5 m @ 25 °C   horizontal  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 4,5 A  Electrical resistance line constant wire 60 Ω/km @ 20 °C  AC withstand voltage (wire - wire) 2,5 kV @ 60 s  Power frequency withstand voltage (wire - acket) - 40 °C  Max. operating temperature (static) -40 °C  Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation  Deparating temperature min. (dynamic) -25 °C	Freedom from ingredients (jacket)	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         74 ± 3 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)         5 m @ 25 °C   horizontal           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4,5 A           Electrical resistance line constant wire         60 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2,5 kV @ 60 s           Power frequency withstand voltage (wire - acket)         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)	Outer-diameter (jacket)	5 mm
Amount wires 5 Duter diameter insulation 1,25 mm Duter diameter tolerance core insulation ± 5 % Shore hardness wire insulation 74 ± 3 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) 5 m @ 25 °C   horizontal Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,5 A Electrical resistance line constant wire 60 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s  Power frequency withstand voltage (wire - acket) 40 °C Max. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C	Tolerance outer diameter (sheath)	± 5 %
Duter diameter insulation       1,25 mm         Duter diameter tolerance core insulation       ± 5 %         Shore hardness wire insulation       74 ± 3 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)       5 m @ 25 °C   horizontal         Nominal voltage AC max.       300 V         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity min. wire       4,5 A         Electrical resistance line constant wire       60 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         Win. operating temperature (static)       -40 °C         Max. operating temperature (irixed)       80 °C / 90 °C @ 10000 h Operation         Operating temperature min. (dynamic)       -25 °C	Material wire insulation	PP
Duter diameter tolerance core insulation       ± 5 %         Shore hardness wire insulation       74 ± 3 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)       5 m @ 25 °C   horizontal         Nominal voltage AC max.       300 V         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity min. wire       4,5 A         Electrical resistance line constant wire       60 Ω/km @ 20 °C         AC withstand voltage (wire - wire)       2,5 kV @ 60 s         Power frequency withstand voltage (wire - acket)       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	Amount wires	5
Shore hardness wire insulation  74 ± 3 Shore D  Ingredient freeness wire insulation  Iead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Amount strands (wire)  42  Diameter of single wires  O,1 mm  Conductor crosssection (wire)  Material conductor wire  Stranded copper wire, bare  Conductor type (wire)  strand class 6  Fraversing distance (C-track)  S m @ 25 °C   horizontal  Nominal voltage AC max.  300 V  Current load capacity (standard)  Current load capacity (standard)  Current load capacity min. wire  AC withstand voltage (wire - wire)  Cower frequency withstand voltage (wire - acket)  AC withstand voltage (wire - wire)  Cower frequency withstand voltage (wire - acket)  AC with stand type tamperature (static)  AD operating temperature (fixed)  80 °C / 90 °C @ 10000 h Operation  Coperating temperature min. (dynamic)  -25 °C	Outer diameter insulation	1,25 mm
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) 5 m @ 25 °C   horizontal  Nominal voltage AC max. 300 V  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4,5 A  Electrical resistance line constant wire 60 \(\Omega\)/km @ 20 °C  AC withstand voltage (wire - wire) 2,5 kV @ 60 s  Power frequency withstand voltage (wire - acket) 40 °C  Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation  Operating temperature min. (dynamic) -25 °C	Outer diameter tolerance core insulation	± 5 %
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) 5 m @ 25 °C   horizontal  Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,5 A Electrical resistance line constant wire 60 \( \Omega / \text{km} \text{ @ 60 s} \) Power frequency withstand voltage (wire - wire) 2,5 kV @ 60 s  Power frequency withstand voltage (wire - acket) 40 °C Max. operating temperature (static) 40 °C Max. operating temperature min. (dynamic) -25 °C	Shore hardness wire insulation	74 ± 3 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  Traversing distance (C-track) 5 m @ 25 °C   horizontal  Nominal voltage AC max. 300 V  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4,5 A  Electrical resistance line constant wire 60 Ω/km @ 20 °C  AC withstand voltage (wire - wire) 2,5 kV @ 60 s  Power frequency withstand voltage (wire - acket)  win. operating temperature (static) -40 °C  Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation  Operating temperature min. (dynamic) -25 °C	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Conductor crosssection (wire)  O,34 mm²  Material conductor wire  Stranded copper wire, bare  Conductor type (wire)  strand class 6  Fraversing distance (C-track)  S m @ 25 °C   horizontal  Nominal voltage AC max.  300 V  Current load capacity (standard)  Current load capacity min. wire  4,5 A  Electrical resistance line constant wire  60 Ω/km @ 20 °C  AC withstand voltage (wire - wire)  Cover frequency withstand voltage (wire - acket)  AC withstand voltage (wire - wire)  Cover frequency withstand voltage (wire - acket)  Win. operating temperature (static)  A0 °C  Max. operating temperature min. (dynamic)  Operating temperature min. (dynamic)  -25 °C	Amount strands (wire)	42
Material conductor wire  Conductor type (wire)  Stranded copper wire, bare  Conductor type (wire)  Strand class 6  Traversing distance (C-track)  5 m @ 25 °C   horizontal  300 V  Current load capacity (standard)  to DIN VDE 0298-4  Current load capacity min. wire  4,5 A  Electrical resistance line constant wire  60 \( \Omega / \text{kV} \) \( \omega 60 \text{ s} \)  AC withstand voltage (wire - wire)  2,5 kV @ 60 s  Power frequency withstand voltage (wire - acket)  Win. operating temperature (static)  40 °C  Max. operating temperature (fixed)  80 °C / 90 °C @ 10000 h Operation  Operating temperature min. (dynamic)  -25 °C	Diameter of single wires	0,1 mm
Conductor type (wire) strand class 6  Traversing distance (C-track) 5 m @ 25 °C   horizontal  Nominal voltage AC max. 300 V  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4,5 A  Electrical resistance line constant wire 60 Ω/km @ 20 °C  AC withstand voltage (wire - wire) 2,5 kV @ 60 s  Power frequency withstand voltage (wire - acket) 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	Conductor crosssection (wire)	0,34 mm²
Traversing distance (C-track) 5 m @ 25 °C   horizontal  Nominal voltage AC max. 300 V  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4,5 A  Electrical resistance line constant wire 60 Ω/km @ 20 °C  AC withstand voltage (wire - wire) 2,5 kV @ 60 s  Power frequency withstand voltage (wire - acket)  Min. operating temperature (static) -40 °C  Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation  Operating temperature min. (dynamic) -25 °C	Material conductor wire	Stranded copper wire, bare
Nominal voltage AC max.  300 V  Current load capacity (standard)  Current load capacity min. wire  4,5 A  Electrical resistance line constant wire  AC withstand voltage (wire - wire)  Power frequency withstand voltage (wire - acket)  All no perating temperature (static)  AC wax. operating temperature min. (dynamic)  300 V  4,5 A  4,5 A  60 \( \Omega \text{/km} \emptyset 20 \cdot \text{C}  4,5 kV \( \emptyset 60 \text{ s}  4,5 kV \( \emptyset 60	Conductor type (wire)	strand class 6
Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4,5 A  Electrical resistance line constant wire 60 \( \Omega/km \emptyreap 20 \cdot	Traversing distance (C-track)	5 m @ 25 °C   horizontal
Current load capacity min. wire 4,5 A  Electrical resistance line constant wire 60 Ω/km @ 20 °C  AC withstand voltage (wire - wire) 2,5 kV @ 60 s  Power frequency withstand voltage (wire - acket) 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	Nominal voltage AC max.	300 V
Electrical resistance line constant wire 60 Ω/km @ 20 °C  AC withstand voltage (wire - wire) 2,5 kV @ 60 s  Power frequency withstand voltage (wire - acket) 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	Current load capacity (standard)	to DIN VDE 0298-4
AC withstand voltage (wire - wire)  2,5 kV @ 60 s  Power frequency withstand voltage (wire - acket)  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	Current load capacity min. wire	4,5 A
Power frequency withstand voltage (wire - acket)  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	Electrical resistance line constant wire	<del>-</del>
acket)  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	AC withstand voltage (wire - wire)	2,5 kV @ 60 s
Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation  Operating temperature min. (dynamic) -25 °C	Power frequency withstand voltage (wire - jacket)	2,5 kV @ 60 s
Operating temperature min. (dynamic) -25 °C	Min. operating temperature (static)	-40 °C
	Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation	Operating temperature min. (dynamic)	-25 °C
	Operating temperature max. (dynamic)	80 °C / 90 °C @ 10000 h Operation

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: 2024-05-18



UV resistance	DIN EN ISO 4892-2 A
Flame resistance	IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	Good, application-related testing   DIN EN 60811-404
Bending radius (fixed)	5 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter
Travel speed (C-track)	10 Mio. @ 25 °C
No. of torsion cycles	1 Mio.
Torsion stress	± 360 °/m
Torsion speed	35 cycles/min