

## MSUD valve plug A-18mm with cable

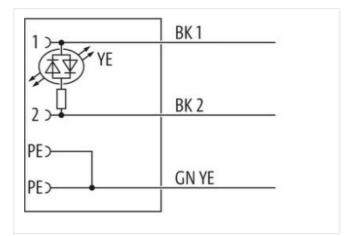
PUR 3x0.75 ye UL/CSA+drag ch. 5m

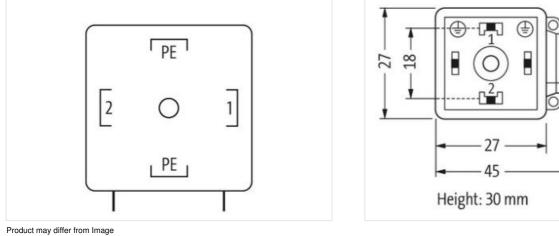
Form A (18 mm) 24 V AC/DC ±25% LED Further cable lengths on request. Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request.

## Link to Product

Illustration









Cable length	5 m
Side 1	
Tightening torque	0,4 Nm

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

Murrelektronik Inc. | 1327 Northbrook Parkway, Suite 460 | Suwanee, GA 30024 | Fon +1 770 497-9292 | Fax +1 770 497-9391 | shop@murrinc.com | shop.murrinc.com



Family construction form	MSUD A
Thread	M3
Material	PBT
Degree of protection (EN IEC 60529)	IP67
Commercial data	
ECLASS-6.0	27279218
ECLASS-6.0 ECLASS-7.0	27279218
ECLASS-7.0	27279218
ECLASS-9.0	27060311
ECLASS-10.1	27060312
ECLASS-11.1	27060312
ECLASS-12.0	27060312
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879195140
Packaging unit	1
Electrical data   Supply	
Operating voltage AC	24 V
Operating voltage AC min.	24 V 18 V
Operating voltage AC max.	30 V
Operating voltage DC	24 V
Operating voltage DC min.	18 V
Operating voltage DC max.	30 V
Current operating per contact max.	4 A
Diagnostics	
Status indication LED	yellow
Installation   Connection	
Mounting set	M3
Device protection   Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	0,8 kV
Material group (IEC 60664-1)	
Mechanical data   Material data	
Coating locking	verzinkt
Coating of fitting	verzinkt
Color housing	black
Locking material	Steel
Material screw connection	Steel
Mechanical data   Mounting data	
Mounting method	inserted, screwed
-	
Environmental characteristics   Climatic	
Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
Important installation notes	
Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
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	

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wire arrangementblack 1, black 2, generyslowCable Gontino036Cable Gontino036Cable Type9Porting color of wire insulationwhile (isolation black)Cable Type0Type of CartificateclPbusAmount startanding1Stranding3 wires kwistedWire arrangementblack 1, black 2, green-yellowCable weight63.5 g/mMaterial jacket90 E 5 Store AFreedom from ingradients (jacket)00 E 5 Store AFreedom from ingradients (jacket)15.9 mmCable weight5.9 mmCable weight5.9 Store AFreedom from ingradients (jacket)5.9 mmCable and indiver insulation9Amount wires3Cable and indiver insulation1.85 mmCubre diameter (insulation1.85 mmCubre diameter insulation12.5 Store DFreedom from ingradient (jacket)4.2 %Store hardness weir insulation12.5 Store DCandradie wire insulation12.5 Store DCandradie wire insulation12.5 Store DCandradie gold weir insulation12.5 Store D<		
Cable Type   S     Printing coor of wine insulation   white (isolation black)     Lacked Cole   yellow     Type of Cortificate   CURus     Amount stranding   1     Stranding   3 wires twisted     wire arrangement   black 1, black 2, green yellow     Cable weigh   68.1 g/m     Material jacket   PUR     Shore hardness jacket   PUR     Shore hardness jacket   90.5 5 hore A     Freedom from ingredients (ingolet)   1.86.4 Ke, cadmum-free, CFC-free, halogen-free, silcone-free     Outer diameter (inschit)   5.5 %     Material vire insulation   PP     Amount vires   3     Outer diameter insulation   1.6 % %     Shore hardness wire insulation   1.6 % %     Shore hardness wire insulation   1.8 mm     Under diameter insulation   1.9 % %     Shore hardness wire insulation   1.8 free     Printing coor dwire insulation   1.8 free     Pointer Sourd wire insulation   1.8 free     Diameter (insulation black)   0.9 from     Controt of single wire	wire arrangement	black 1, black 2, green-yellow
Printing cobor of wire insultation   white (isolation black)     Jacket Color   yellow     Type of Certificate   uPLike     Amount Istanding   1     Stranding   3 wires hvisted     wire arrangement   black 1, black 2, green yellow     Cable weigh   56.1 g/m     Material jacket   PUR     Stroke finandersis jacket   PUR     Stroke finandersis jacket   PUR     Outer diameter (iacket)   5.9 mm     Tolerance outer diameter (iacket)   5.9 mm     Outer diameter (iacket)   5.8 ks     Material wise insulation   PP     Amount wires   3     Outer diameter insulation   1.8 frm     Outer diameter insulation   1.8 frm     Outer diameter insulation   1.8 frm     Outer diameter insulation   1.5 frm     Conductor represention multiple wires   0.1 frm     Conductor represention insulation   white (isolation black)     Armount strands (wire)   0.2 frm     Conductor represention white (isolation black)   Content orepresentin strusulation     Materi	Cable identification	036
Jacket Color   yellow     Type of Certificate   cLRus     Amount stranding   1     Stranding   3 wires kvisted     Wrier arrangemant   black 1, black 2, green-yellow     Cable weigh   56,1 g/m     Matterial jacket   PUR     Shore hardness jacket   90,5 Shore A     Freedom from ingredients (jacket)   Isaat-tree, cadmium-free, CFC-free, halogen-free, silicone-free     Outer diamoter (jacket)   5,5 mm     Tolerance outer diamoter (stratult)   1,6 %     Matterial twie insulation   PP     Amount wises   3     Outer diamoter (induction   1,85 mm     Outer diamoter insulation   1,85 %     Matterial wein insulation   TP 2     Freidem treeness wire insulation   1,85 %     Store bardness wire insulation   1,85 %     Cadre diamoter insulation   1,85 %     Matterial conductor weinscalation   45 %     Diameter of single wires   0,15 mm     Canductor strassection in wire   0,15 mm     Canductor types (wire)   0,15 mm <sup>2</sup> Canductor types (w	Cable Type	3
Type of Cartificatio   CURus     Amount istanding   1     Stranding   3 wires twisted     Stranding   3 wires twisted     Stranding   56.1 g/m     Material jacket   PUR     Strone hardness jackel   90.2 S Shore A     Freedom from ingedents (jacket)   59.1 g/m     Outer diameter (jacket)   5.9 mm     Tolerance outer diameter (jacket)   5.5 mm     Tolerance outer diameter (jacket)   5.5 mm     Outer diameter insulation   1.8 mm     Outer diameter insulation   1.6 s fm     Together themaxies wire insulation   1.6 s fm     Amount trainds (intervine)   2.5 Shore D     Ingredent themaxies wire insulation   1.6 s fm     Amount strainds (intervine)   42     Diameter of single wires   0.15 mm     Canductor crossection (wire)   0.75 mm²     Material conductor wire   Stand dopper wire, bate     Canductor vise <t< td=""><td>Printing color of wire insulation</td><td>white (isolation black)</td></t<>	Printing color of wire insulation	white (isolation black)
Amount stranding   1     Stranding   3 wires twisted     Weie arrangement   black 1, black 2, green-yellow     Cable weight   56,1 g/m     Material jackat   PUR     Share hardness jacket   90 ± 5 Shore A     Foreedmin fram ingredients (acket)   lead-free, cadmum-free, CFC-free, halogen-free, silicone-free     Outer-diameter (indexe)   1 ± 5 %     Material wire insulation   PP     Amount wires   3     Outer diameter insulation   1.85 mm     Outer diameter wire insulation   1.9 5 Shore D     Ingredient freeness wire insulation   1.9 5 Shore D     Ingredient freeness wire insulation   1.9 5 Shore D     Ingredient freeness wire insulation   1.80 frm     Outer diameter tolerance core insulation   1.9 5 Shore D     Ingredient freeness wire insulation   Wein [solation black]     Amount wires   0.75 mm     Conductor missection. (wire)   42     Diameter of single wires   0.15 mm     Conductor wires detion.   0.15 mm     Conductor wires   Standed copper wire, bare     Conductor wires<	Jacket Color	yellow
Stranding 3 wires twisted   wire arrangement black 1, black 2, green-yellow   Cable weigh 66,1 ym   Material jacket PUR   Shore hardness jacket 90 ± 5 Shore A   Freedom from ingredients (jacket) 6.8 rpm   Tolerance outer diameter (jacket) 5.9 rm   Tolerance outer diameter (jacket) 5.9 rm   Outer diameter instalation PP   Amount wires 3   Outer diameter instalation 1.85 rm   Outer diameter instalation 70 ± 5 Shore D   Ingredient freeness wire insulation 70 ± 5 Shore D   Fingredient freeness wire insulation white (isolation black)   Amount strands (wire) 4.2   Diameter of singre wire insulation white (isolation black)   Amount strands (wire) 0.75 rmm <sup>2</sup> Conductor wire Stranded copper wire, bare   Conductor wire Stranded copper wire, bare   Conductor wire (wire) 0.75 mm <sup>2</sup> Conductor wire (wire) 0.75 mm <sup>2</sup> Conductor wire (wire) 0.76 mm <sup>2</sup> Conductor wire (wire) 0.76 mm <sup>2</sup> Conductor wire (wire) 0.76 mm	Type of Certificate	cURus
wire anangement   black 1, black 2, green-yellow     Cable weigh   66, grin     Material jacket   PUR     Shore hardness jacket   90:15 Shore A     Freedom from ingredients (jacket)   lead free, cadmium-free, CFC free, halogen-free, allicone-free     Outer diameter (jacket)   5.9 mn     Tolerance outer diameter (jacket)   5.9 mn     Tolerance outer diameter (jacket)   5.5 %     Amount Wires   3     Outer diameter insulation   1.85 mm     Ingredient freeness wire insulation   lead-free, cadmium-free, CFC-free, halogen-free, allicone-free     Printing color of wire insulation   wire (solation black)     Amount stands (wire)   42     Diameter of single wires   0,15 mm     Conductor type (wire)   stranded copper wire, bare     Conductor type (wire)   stranded copper wire, bare     Conductor type (wire)   2.5 kV @	Amount stranding	1
Cable weight   56,1 g/m     Matorial packet   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)   5.9 mm     Tolerance outer diameter (shalls)   5.5 %     Matorial wire insulation   PP     Armount wires   3     Outer diameter insulation   1.85 mm     Outer diameter insulation   1.65 mm     Ingredient freeness wire insulation   white (isolation black)     Amount strands (wire)   42     Diameter of single wires   0.15 mm     Conductor type (wire)   strand class 6     Nominal voltage AC max.   300 V     Current load capacity fraint andri   12 A     Electrical resistance line constant wire   2.5 kV @ 60 s     Matorial conducter wire   2.5 kV @ 60 s     Minor oparating temperature (static)	Stranding	3 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)   5.9 mm     Tolerance outer diameter (jacket)   5.9 mm     Material wire insulation   PP     Amount wires   3     Outer diameter insulation   1.85 mm     Outer diameter insulation   1.85 mm     Outer diameter insulation   70 ± 5 Shore D     Ingredient feeness wire insulation   Iea 5 %     Shore hardness wire insulation   white (isolation black)     Amount strands (wire)   42     Diameter of single wires   0.15 mm     Conductor trossection (wire)   0.75 mm <sup>2</sup> Material conductor wire   Stranded copper wire, bare     Conductor type (wire)   strande class 6     Nominal voitage 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 (standard)   to DIN VDE 0298.4     Current load capacity (standard)   to DIN VDE 029	wire arrangement	black 1, black 2, green-yellow
Shore hardness jacket   90 ± 5 Shore A     Freedom from ingredients (jacket)   lead-tree, cadmum-free, CFC-free, halogen-free, silicone-free     Outer diameter (jacket)   ± 5 %     Material we'n insulation   PP     Amount wires   3     Outer diameter (solved)   1.85 mm     Outer diameter (solved)   1.85 mm     Outer diameter tolerance core insulation   1.85 mm     Outer diameter tolerance core insulation   1.95 %     Shore hardness wire insulation   70 ± 5 Shore D     Ingredient freeness wire insulation   1.95 %     Shore hardness wire insulation   1.95 %     Material conducts (wire)   4 ± 2     Diameter of single wires   0.15 mm     Conductor crossocial (wire)   0.75 mm <sup>2</sup> Orditor trans decopper wire, bare   Conductor wire     Conductor trave   Starm deass 6     Nominal voltage AC max.   300 V     Current load capacity (standard)   to DN VDE 0298-4     Current load capacity (standard)   to DN VDE 0298-4     Current load capacity (wire)   2.5 kV @ 60 s     Power forequancy withetar voltage (wire - vie)	Cable weigth	-
Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free   Outer diameter (jacket) 5,9 mm   Tolerance outer diameter (jacket) 5,9 mm   Material wire insulation PP   Amount wires 3   Outer diameter (isolation 1,85 mm   Outer diameter (isolation 1,55 %   Shore hardness wire insulation 70 ± 5 Shore D   Ingredient freeness wire insulation 70 ± 5 Shore D   Ingredient freeness wire insulation white (isolation black)   Amount strands (wire) 42   Diameter of single wires 0,15 mm   Conductor research 0,75 mm <sup>2</sup> Conductor vire (wire) strande class 6   Nominal voltage AC max. 300 V   Current load capacity (kinderd) to DIN VDE 0298-4   Current load capacity (kinderd) to DIN VDE 0298-4   Current load capacity (wins) 2,5 KV @ 60 s   Max. operating temperature (kind) 40 °C   Max. operating temperature (kind) 80 °C / 90 °C @ 10000 h Operation   Operating temperature (kind) 80 °C / 90 °C @ 10000 h Operation   Operating temperature (kindic) 80 °C / 90 °C @ 10000 h Operation<	Material jacket	PUR
Outer-diameter (acket)   5,9 mm     Tolerance outer diameter (sheath)   ± 5 %     Material wire insulation   PP     Amount wires   3     Outer diameter rolerance core insulation   ± 5 %     Shore hardness wire insulation   70 ± 5 Shore D     Ingredient freeness wire insulation   70 ± 5 Shore D     Ingredient freeness wire insulation   wire insulation     Amount strands (wire)   42     Diameter of single wires   0,15 mm     Conductor crossection (wire)   0,75 mm²     Material conductor wire   Stranded copper wire, bare     Conductor type (wire)   strand class 5     Nominal voltage AC max.   300 V     Current load capacity (standard)   to DIN VDE 0284-4     Current load capacity (mixer)   2,5 kV @ 60 s     Min. operating temperature (stalle) </td <td>Shore hardness jacket</td> <td>90 ± 5 Shore A</td>	Shore hardness jacket	90 ± 5 Shore A
Tolerance outer diameter (sheath)   ± 5 %     Material wire insulation   PP     Anount wires   3     Outer diameter Insulation   1.85 mm     Outer diameter Iolerance core insulation   ± 5 %     Shore hardness wire insulation   70 ± 5 Shore D     Ingredient freeness wire insulation   70 ± 5 Shore D     Ingredient freeness wire insulation   white (loalidon black)     Amount wires   0.15 mm     Conductor crosssection (wire)   0.75 mm <sup>2</sup> Material conductor wire   Stranded copper wire, bare     Conductor crosssection (wire)   0.75 mm <sup>2</sup> Material conductor wire   Stranded copper wire, bare     Conductor (wire)   0.75 mm <sup>2</sup> Conductor (wire)   stranded copper wire, bare     Conductor (wire)   0.75 mm <sup>2</sup> Conductor (wire)   stranded copper wire, bare     Conductor (wire)   0.75 mm <sup>2</sup> Conductor (wire)   0.75 mm <sup>2</sup> Conductor (wire)   stranded cosper     Conductor (wire)   0.75 mm <sup>2</sup> Conductor (wire)   stranded cosper     Conductor (wire)   str	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Material wire insulation   PP     Amount wires   3     Outer diameter insulation   1.85 mm     Outer diameter insulation   2.5 %     Shore hardness wire insulation   70.4 5 Shore D     Ingredient freeness wire insulation   10.45 mm     Printing color of wire insulation   wite (solation black)     Amount strands (wire)   42     Diameter of single wires   0.15 mm     Conductor crossection (wire)   0.75 mm²     Material conductor wire   Stranded copper wire, bare     Conductor vire (wire)   strand class 6     Nominal voltage AC max.   300 V     Current load capacity (strandard)   b DIN VDE 0298-4     Current load capacity (strandard)   b DIN VDE 0298-4     Current load capacity (wire)   2.5 kV @ 60 s     Power frequency withstand voltage (wire - inter)   2.5 kV @ 60 s     Min. operating temperature (static)   -40 °C     Max. operating temperature (static)   -0 °C </td <td>Outer-diameter (jacket)</td> <td>5,9 mm</td>	Outer-diameter (jacket)	5,9 mm
Amount wires 3   Outer diameter insulation 1.85 mm   Outer diameter tolerance core insulation ± 5 %   Shore hardness wire insulation 70 ± 5 Shore D   Ingredient freeness wire insulation White (isolation black)   Amount wires 0.15 mm   Conductor crosssection (wire) 0.75 mm²   Conductor rosssection (wire) 0.75 mm²   Conductor vire insulation Stranded copper wire, bare   Conductor vire (wire) Stranded copper wire, bare   Current load capacity (standard) to DIN VDE 0298-4   Current load capacity (standard) to DIN VDE 0298-4   Current load capacity (standard) to DIN VDE 0298-4   Current load capacity (standard)	Tolerance outer diameter (sheath)	±5%
Outer diameter insulation   1.85 mm     Outer diameter tolerance core insulation   ± 5 %     Shore hardness wire insulation   70 ± 5 Shore D     Imgredient Treeness wire insulation   lead-tree, cadmium-free, CFC-free, halogen-free, silicone-free     Printing color of wire insulation   white (isolation black)     Amount strands (wire)   42     Diameter of single wires   0,15 mm     Conductor or sossection (wire)   0,75 mm <sup>2</sup> Material conductor wire   Stranded copper wire, bare     Conductor toge (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 (standard)   to DIN VDE 0298-4     Current load capacity (wire)   2,5 kV @ 60 s     Power frequency withstand voltage (wire - ingle & 0/km @ 20 °C     AC withstand voltage (wire - wire)   2,5 kV @ 60 s     Min. operating temperature (istatic)   40 °C     Max. operating temperature (istatic)   40 °C     Max. operature max. (dynamic)   80 °C / 90 °C @ 10000 h Operation     Operating temperature (istatio)   40 °C     Gasoline resistance	Material wire insulation	PP
Outer diameter tolerance core insulation $\pm$ 5 %Shore hardness wire insulation70 ± 5 Shore DIngredient freeness wire insulationwhile (solation black)Amount strands (wire)42Diameter of single wires0,15 mmConductor cossection (wire)0,75 mm²Material conductor wireStranded copper wire, bareConductor vipe (wire)strand class 6Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity (mire)2,5 kV @ 60 sPower frequency withstand voltage (wire - wire)2,5 kV @ 60 sPower frequency withstand voltage (wire - wire)2,5 kV @ 60 sMax. operating temperature (static)-40 °CMax. operating temperature (static)40 °C @ 10000 h OperationOperating temperature (static)80 °C / 90 °C @ 10000 h OperationOperating temperature (static)60 °C @ 10000 h OperationOperating temperature (static)5 °C C @ 10000 h OperationOperating temperature (static)5 °C C @ 10000 h OperationOperating temperature (static)10 °C 2 °C @ 10000 h OperationOperating temperature (static)5 °C (static)BasilanceGood, application-related testingOli resistanceGood,	Amount wires	3
Shore hardness wire insulation 70 ± 5 Shore D   Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free   Printing color of wire insulation white (isolation black)   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 (standard) to DIN VDE 0298-4   Current load capacity (wire - wire) 2,5 kV @ 60 s   Power frequency withstand voltage (wire - iter) 2,5 kV @ 60 s   Power frequency withstand voltage (wire - iter) 2,5 kV @ 60 s   Min: operating temperature (static) -40 °C   Max. operating temperature (static) -40 °C   Max. operating temperature (static) -25 °C   Operating temperature (static) -25 °C   Operating temperature (static) 5 x Outer diameter   Electrical resistance Good, application-related testing   Gasoline resistance Good, application-related testing	Outer diameter insulation	1,85 mm
Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free   Printing color of wire insulation white (isolation black)   Amount strands (wire) 42   Diameter of single wires 0,15 mm   Conductor rossesciton (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) 2,5 kV @ 60 s   Power frequency withstand voltage (wire) 2,5 kV @ 60 s   Power frequency withstand voltage (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 (static) -25 °C   Operating temperature (static) -25 °C   Operating temperature (static) 5 x Outer diameter   Eladiction-related testing Good, application-related testing   Oil resistance Good, application-related testing   Operating temperature (fixed) 5 x Cuter diameter	Outer diameter tolerance core insulation	± 5 %
Printing color of wire insulation white (isolation black)   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 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 - icace data data data) 2.5 kV @ 60 s   Min. operating temperature (static) -40 °C   Max. operating temperature (static) -40 °C   Max. operating temperature min. (dynamic) -25 °C   Operating temperature min. (dynamic) 80 °C / 90 °C @ 10000 h Operation   Flame resistance Good, application-related testing	Shore hardness wire insulation	70 ± 5 Shore D
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 (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 Jk/m @ 20 °C   AC withstand voltage (wire - wire) 2,5 kV @ 60 s   Power frequency withstand voltage (wire - jacket) 40 °C   Max. operating temperature (static) -40 °C   Max. operature (inced) 80 °C / 90 °C @ 10000 h Operation   Operating temperature (inced) 80 °C / 90 °C @ 10000 h Operation   Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation   Flame resistance Good, application-related testing   Gasoline resistance Good, application-related testing   Git resistance Good, application-related testing IDIN EN 60811-404   Bending radius (fixed) 5 x Outer diameter	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Diameter of single wires0.15 mmConductor crosssection (wire)0.75 mm²Material conductor wireStranded copper wire, bareConductor type (wire)strand class 6Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)26 Ω/km @ 20 °CAC withstand voltage (wire - wire)2.5 kV @ 60 sPower frequency withstand voltage (wire - acket)2.5 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CQor C 0 °C 0 °C 0 °C 0 °C 0 °C 00000 h OperationOperating temperature (static)-25 °COperating temperature (static)80 °C / 90 °C @ 10000 h OperationFlame resistanceGood, application-related testingGasoline resistanceGood, application-related testingGasoline resistanceGood, application-related testingGasoline resistanceGood, application-related testingGasoline resistanceGood, application-related testingDil resistanceGood, application-related testingBending radius (fixed)5 x Outer diameterBending radius (kixed)5 x Outer diameterNo. o bending cycles (C-track)10 Mio. @ 25 °CTraver sign distance (C-track)10 Mio. @ 25 °CTraver s	Printing color of wire insulation	white (isolation black)
Conductor crosssection (wire) 0,75 mm²   Material conductor wire Stranded copper wire, bare   Conductor type (wire) strand class 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 (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 - acket) -40 °C   Max. operating temperature (static) -40 °C   Max. operating temperature (static) -40 °C   Max. operating temperature min. (dynamic) -25 °C   Operating temperature min. (dynamic) -25 °C   Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation   Flame resistance UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2   chemical resistance Good, application-related testing   Oil resistance Good, application-related testing   Oil resistance Good, application-related testing   Oil resistance Good, application-relate	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 (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 (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     Flame resistance   UL 1581 § 1100 ΓT2   UL 1581 § 1090   IEC 60332-2-2     chemical resistance   Good, application-related testing     Oil resistance   Good, application-related testing	Diameter of single wires	0,15 mm
Conductor type (wire)strand class 6Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire12 AElectrical resistance line constant wire26 Ω/km @ 20 °CAC withstand voltage (wire - wire)2,5 kV @ 60 sPower frequency withstand voltage (wire - jacket)2,5 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (static)-40 °COperating temperature (wire)2,5 °COperating temperature (ixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingDi ray of the may context of the matterNo. of bending radius (fixed)5 × Outer diameterNo. of bending radius (chrack)10 m @ 25 °CTraver speed (C-track)10 Mis @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	Conductor crosssection (wire)	0,75 mm <sup>2</sup>
Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire12 AElectrical resistance line constant wire26 Ω/km @ 20 °CAC withstand voltage (wire - wire)2,5 kV @ 60 sPower frequency withstand voltage (wire - jacket)2,5 kV @ 60 sMax. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CMax. operating temperature (static)-40 °COperating temperature (min. (dynamic))-25 °COperating temperature max. (dynamic)-80 °C / 90 °C @ 10000 h OperationOperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingNo. of bending radius (fixed)5 x Outer diameterNo. of bending cycles (C-track)10 Mio. @ 25	Material conductor wire	Stranded copper wire, bare
Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire12 AElectrical resistance line constant wire26 $\Omega$ /km @ 20 °CAC withstand voltage (wire - wire)2,5 kV @ 60 sPower frequency withstand voltage (wire - jacket)2,5 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CMax. operating temperature (static)-25 °COperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testing<	Conductor type (wire)	strand class 6
Current load capacity min. wire 12 A   Electrical resistance line constant wire 26 Q/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   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   No. of bending cycles (C-track) 10 Mio. @ 25 °C   Traversing distance (C-track) 10 Mio. @ 25 °C   No. of torsion cycles 2 Mio.   Taversing citance (C-track) 3 m/s @ 25 °C   No. of torsion cycles 2 Mio.   Torsion stress ± 18	Nominal voltage AC max.	300 V
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 (ised) 80 °C / 90 °C @ 10000 h Operation   Operating temperature min. (dynamic) -25 °C   Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation   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   Cil resistance Good, application-related testing   Oil resistance Good, application-related testing   DIN EN 60811-404   Bending radius (fixed) 5 x Outer diameter   No. of bending cycles (C-track) 10 Mio. @ 25 °C   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	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) 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   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   Di no @ 25 °C Traver diameter   Bending radius (dynamic) 10 % 0.0 @ 25 °C   Traver s	Current load capacity min. wire	12 A
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   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   Bending radius (fixed) 5 x Outer diameter   Bending radius (dynamic) 10 x Outer diameter   No. of bending cycles (C-track) 10 m @ 25 °C   Traversing distance (C-track) 3 m/s @ 25 °C   No. of torsion cycles 2 Mio.   Torsion stress ± 180 °/m	Electrical resistance line constant wire	26 Ω/km @ 20 °C
jacket)2,5 kV (Ø 60 sMin. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingNo. of bending cycles (C-track)10 Nio. @ 25 °CTraversing distance (C-track)10 m @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	AC withstand voltage (wire - wire)	2,5 kV @ 60 s
Jacket)Min. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceIn over diameterNo. of bending cycles (C-track)10 Mio. @ 25 °CNo. of torsion cycles2 Mio. </td <td></td> <td>2.5 kV @ 60 s</td>		2.5 kV @ 60 s
Max. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingDiffication related testingDiffication-related testingOil resistanceGood, application-related testingNo. of bending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)10 Mio. @ 25 °CTraversing distance (C-track)3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m		
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Operating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testing   DIN EN 60811-404Bending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)10 m @ 25 °CTraversing distance (C-track)10 m @ 25 °C   horizontalTravel speed (C-track)3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m		
Flame resistanceUL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testing   DIN EN 60811-404Bending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)10 Mio. @ 25 °CTraversing distance (C-track)10 m @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m		
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Oil resistanceGood, application-related testing   DIN EN 60811-404Bending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)10 Mio. @ 25 °CTraversing distance (C-track)10 m @ 25 °C   horizontalTravel speed (C-track)3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m		
Bending radius (fixed) 5 x Outer diameter   Bending radius (dynamic) 10 x Outer diameter   No. of bending cycles (C-track) 10 Mio. @ 25 °C   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		
Bending radius (dynamic) 10 x Outer diameter   No. of bending cycles (C-track) 10 Mio. @ 25 °C   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		
No. of bending cycles (C-track) 10 Mio. @ 25 °C   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		5 x Outer diameter
Traversing distance (C-track)10 m @ 25 °C   horizontalTravel speed (C-track)3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m		
Travel speed (C-track)3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m		
No. of torsion cycles2 Mio.Torsion stress± 180 °/m		
Torsion stress ± 180 °/m	· · · ·	
Torsion speed 35 cycles/min		
	Torsion speed	35 cycles/min

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

Murrelektronik Inc. | 1327 Northbrook Parkway, Suite 460 | Suwanee, GA 30024 | Fon +1 770 497-9292 | Fax +1 770 497-9391 | shop@murrinc.com | shop.murrinc.com