

M12 male 0° A-cod. / MSUD valve plug CI-9.4mm

PUR 3x0.75 gy UL/CSA+drag ch. 10m

Art.No.: 7000-41041-2361000 Weight: 0.537 Country of origin: CZ Model designation: MSRL3-A-W236 10.0

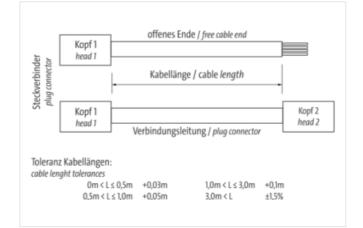
MSUD

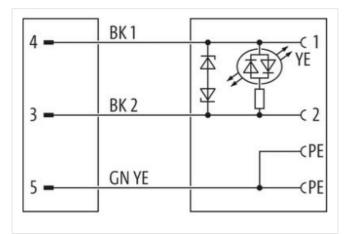
Form CI (9.4 mm) – M12, male straight 24 V AC ±20% / DC ±25% LED and suppression Further cable lengths on request. Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request.

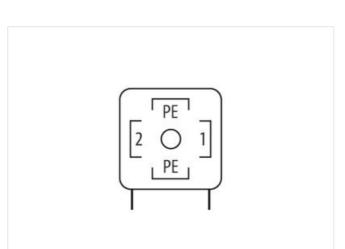
Link to Product

Illustration



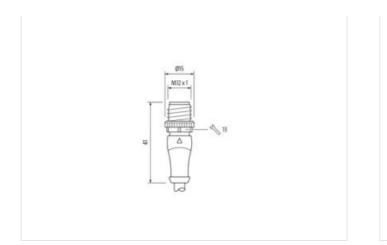


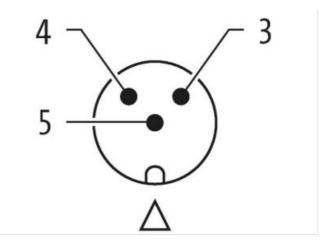


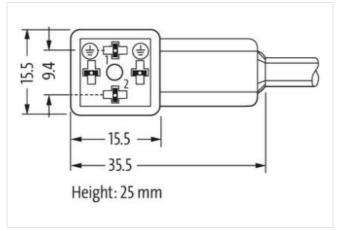


The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2025-09-06









Product may differ from Image



Cable length	10 m
Side 1	
Tightening torque	0,4 Nm
Family construction form	MSUD CI
Thread	M3
No. of poles	4
Degree of protection (EN IEC 60529)	IP67
Side 2	
Tightening torque	0,6 Nm
Family construction form	M12
Thread	M12 x 1
suitable for corrugated tube (internal Ø)	10 mm
Coding	A
No. of poles	3
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP67
Commercial data	
ECLASS-6.0	27279218

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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
customs tariff number	85444290
EAN	4048879146845
EAN	4048879146845
Packaging unit	1
Packaging unit	1
Electrical data	
Drop-out delay time max.	20 ms
Electrical data Supply	
Operating voltage AC	24 V
Operating voltage AC min.	19,2 V
Operating voltage AC max.	28,8 V
Operating voltage DC	24 V
Operating voltage DC min.	18 V 30 V
Operating voltage DC max.	
Cut-off peak voltage max.	55 V
Current operating per contact max.	4 A
Diagnostics	
Status indication LED	yellow
Device protection Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	0,8 kV
Mechanical data Material data	
Material housing	Plastic
Color housing	black
Mechanical data Mounting data	
· · · · · ·	inserted, screwed
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.
Conformity	
Product standard	DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilstecker)
Installation Cable	
wire arrangement	black 1, black 2, green-yellow
Cable identification	236
Cable Type	3
rmation in this Product-PDE has been compiled with the	

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Jacket Color Type of Certificate cURus Amount stranding 1 Stranding 3 wires wisted Stranding 3 wires wisted Stranding 5 wires wisted Cable weigh 56.1 p/m Material jacket PUR Store hardness wire insulation PP Amount wise 3 Outer diameter insulation 10 ± 5 % Store hardness wire insulation 170 ± 5 Shore D Store hardness wire insulation 4 ± 5 % Store hardness wire insulation 4 ± 6 % Store hardness wire insulation 5 % Store hardness wire insulation 4 ± 6 % Store hardness wire insulation 5 % Store hardness wire insulation 4 ± 6 % Store hardness wire insulation 5 %	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 jacket PUR Strone hardness jacket 90 ± 5 Shore A Freedom from ingredienti (gacket) bead-free, cadmum-free, CFC-free, halogen-free, silicone-free Outer-dimenter (gacket) ± 5 % Material viro insulation PP Amount wires 3 Outer dimenter insulation 1.85 mm Outer dimenter insulation 70 ± 5 Shore D Ingredient freeness wire insulation 1.85 mm Outer dimenter insulation 1.9 ± 5 % Strone hardness wire insulation 1.9 ± 5 Nore D Ingredient freeness wire insulation 1.85 mm Outer dimenter insulation 1.85 mm Outer dimenter insulation wire insulation North archness wire insulation 1.9 ± 5 % Conductor resonscienton (wire) 0.75 mm² Outer dimenter insulation 0.15 mm Conductor vipe (wire) strand despe 6 Onductor vipe (wire) strand despe 6 Conductor vipe (wire) <td< td=""><td>Jacket Color</td><td>gray</td></td<>	Jacket Color	gray
Amount stranding 1 Stranding 3 wires twisted Weie arrangement black 1, black 2, green-yellow Cable weight 56,1 g/m Material jacket PUR Strone hardness jacket 90 ± 5 Shore A Freedom from ingredienti (gacket) bead-free, cadmum-free, CFC-free, halogen-free, silicone-free Outer-dimenter (gacket) ± 5 % Material viro insulation PP Amount wires 3 Outer dimenter insulation 1.85 mm Outer dimenter insulation 70 ± 5 Shore D Ingredient freeness wire insulation 1.85 mm Outer dimenter insulation 1.9 ± 5 % Strone hardness wire insulation 1.9 ± 5 Nore D Ingredient freeness wire insulation 1.85 mm Outer dimenter insulation 1.85 mm Outer dimenter insulation wire insulation North archness wire insulation 1.9 ± 5 % Conductor resonscienton (wire) 0.75 mm² Outer dimenter insulation 0.15 mm Conductor vipe (wire) strand despe 6 Onductor vipe (wire) strand despe 6 Conductor vipe (wire) <td< td=""><td>Type of Certificate</td><td>cURus</td></td<>	Type of Certificate	cURus
wire arrangement black 1, black 2, green-yellow Cable weight 56.1 grm Material jacket PUR Shore hardness jacket 90.5 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 (isolation) PP Amount wires 3 Outer diameter insulation 1.85 mm Outer diameter insulation 1.85 mm Outer diameter insulation 70.5 Shore D Ingredient freeness wire insulation 1.85 mm Outer diameter insulation 1.85 mm Outer diameter insulation 1.85 mm Ingredient freeness wire insulation 1.85 mm Contract diameter insulation 1.85 mm Outer diameter insulation 1.85 from Ingredient freeness wire insulation 1.85 from Contract tool copascity (is and diage of the standos coper wire, bare Conductor type (ive)	Amount stranding	1
Cable weight 56.1 g/m Material jacket PUR Shore hardness jacket 90.5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 5.9 mm Tolerance outer diameter (shart) 5.5 % Material wire insulation PP Amount wires 3 Outer diameter insulation 1.85 mm Outer diameter insulation 7.0 ± S hore D Ingredient freeness wire insulation 7.0 ± S hore D Prinding oolor of wire insulation 1.45 mm Topoder freeness wire insulation 7.0 ± S hore D Prinding oolor of wire insulation white (isolation black) Amount strands (wire) 42 Dameter of single wires 0.15 mm Conductor rype (wire) strand class 6 Nominal voltage AC max. 300 V Corrent load capacity min. wire 12 A Electrical resistance line constant wire 26 O/km @ 20 °C Ava witzbard bodinge (wire- wire) 2.5 kV @ 60 s Minitad ooppolicity (standard) 50 INV DE 0288-4	Stranding	3 wires twisted
Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom Irom Ingredients (jacket) Iso 4 free, catmium.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 1.8 mm Outer diameter insulation 1.8 free Toderance ore insulation 1.8 free Outer diameter insulation 1.8 free Tore farance troiterance ore insulation 1.8 free Ingredient treeness wire insulation tea 5 % Shore hardness wire insulation tea 5 % Amount strands (wire) 42 Diameter of single wires 0.15 mm Conductor rossection 0.75 mm ³ Material conductor wire Stranded copper wire, bare Conductor rossection 0.0 V Current load capacity (standard) to DIN VDE 0298.4 Current load capacity (standard) to DIN VDE 0298.4 Current load capacity min, wire 12.4 Peeser freq	wire arrangement	black 1, black 2, green-yellow
Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jackel) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer diameter (jackel) 5.9 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 3 Outer diameter insulation 1.85 mm Outer diameter insulation 1.85 mm Outer diameter insulation 1.65 % Shore hardness 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 roye (wire) 0.75 mm ² Conductor roye (wire) strand class 6 Nominal voltage AC max. 300 V Current load capacity (min, wire) 12 A Electrical resistance line constant wire 26 C/km @ 20 °C AC withstand voltage (wire - wire) 2.5 KV @ 60 s Power froquency withstand voltage (wire - wire) 2.5 KV @ 60 s Power froquency withstand voltage (wire - wire) 2.5 KV @ 60 s Power froquency withstand vo	Cable weigth	56,1 g/m
Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 5.9 mm Tolerance outer diameter (sheath) 5.9 mm Material wire insulation PP Amount wires 3 Outer diameter (lameter (sheath) 1.85 mm Outer diameter tolerance core insulation 1.85 mm Outer diameter tolerance core insulation 70 ± 5 Shore D Ingredient treeness wire insulation 70 ± 5 Shore D Ingredient treeness wire insulation White (solation black) Amount strands (wire) 42 Diameter of single wires 0.15 mm Conductor rossesceion (wire) 0.75 mm ² Conductor rossesceion (wire) Stranded copper wire, bare Conductor trops devine Strande dosper wire, bare Conductor rossesceion (wire) 5 SkV Ø 60 s Current load capacity (strandard) to DIN VDE Co28-4 Current load capacity (min. wire 2 S kV Ø 60 s Power frequency withstand voltage (wire - wire) 2 S kV Ø 60 s Power frequency withstand voltage (wire - wire) 2 S kV Ø 60 s Power frequency withstand	Material jacket	PUR
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Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 3 Outer diameter insulation 1.85 mm Outer diameter tolerance core insulation 70 ± 5 Shore D Ingredient feeness wire insulation 70 ± 5 Shore D Ingredient feeness wire insulation 70 ± 5 Shore D Ingredient feeness wire insulation wite (isolation black) Amount strands (wire) 42 Diameter of single wires 0.15 mm Conductor orxssection (wire) 0.75 mm² Conductor vire (wire) Stranded copper wire, bare Conductor vire (wire) 2.5 K/V @ 60 s Norminal voltage (wire - wire) 2.5 K/V @ 60 s Power t	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 1,85 mm Outer diameter insulation 70 ± 5 Shore D Ingredient freeness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation Wite (isolation 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 torsessection (wire) 0,75 mm² Material conductor wire Strand class 6 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) <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 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 type (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 (sindard) to DIN VDE 0298-4 Current load capacity (sindard) to DIN VDE 0298-4 Current load capacity (sindard) to DIN VDE 0298-4 Current load capacity (min. wire 12 A Electrical resistance line constant wire 26 D/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - isolat wire) 2,5 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Operating temperature (static)<	Tolerance outer diameter (sheath)	±5%
Outer diameter insulation 1.85 mm Outer diameter loberance 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 Printing color of wire insulation white (isolation 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 type (wire) strand class 6 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0288-4 Current load capacity (standard) to DIN VDE 0288-4 Current load capacity (wine) 2,5 kV @ 60 s Power frequency withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - wire) 2,5 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Max. operating temperature (static) -60 °C / 90 °C @ 10000 h Operation Coperating temperature (statid) 80 °C / 90 °C @ 10000 h Operation	Material wire insulation	РР
Outer diameter tolerance core insulation \pm 5 %Shore hardness wire insulation70 ± 5 Shore DIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, halogen-free, silicone-freePrinting color of wire insulationwhite (isolation black)Amount strands (wire)42Diameter of single wires0,15 mmConductor crosssection (wire)0,75 mm²Material conductor wireStranded copper wire, bareConductor type (wire)stranded copper wire, bareConductor type (wire) </td <td>Amount wires</td> <td>3</td>	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) 2,5 kV @ 60 s Power frequency withstand voltage (wire - isolace) 2,5 kV @ 60 s Row erfange temperature (static) -40 °C Max. operating temperature (static) -40 °C Max. operating temperature (static) -25 °C Operating temperature max. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Filam resistance Good, application-related testing Gasoline resistance Good, application-related testing	Outer diameter insulation	1,85 mm
Ingredient freeness wire insulationlead-free, cadmium-free, CFC-free, halogen-free, silicone-freePrinting color of wire insulationwhite (isolation black)Amount strands (wire)42Diameter of single wires0.15 mmConductor cosssection (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 min. wire12 AElectrical resistance line constant wire)2.5 kV @ 60 sPower frequency withstand voltage (wire -2.5 kV @ 60 sPower frequency withstand voltage (wire -40 °CMax. operating temperature (static)-40 °CMax. operating temperature (static)-25 °COperating temperature max. (dynamic)-25 °COperating temperature max. (dynamic)-25 °COperating temperature max. (dynamic)5 x Oute diameterElendrical cesistanceGood, application-related testingGasoline resistanceDINE NS 0811-404 [Good, application-related testingGasoline resistanceDINE NS 0811-404 [Good, application-related testingBending radius (fixed)10 x Outer diameterNo. of bending cycles (C-track)10 m @ 25 °CTravel speed (C-track)10 m @ 25 °CNo. of bending cycles (C-track)10 m @ 25 °CNo. of bending cycles (C-track)10 m @ 25 °CNo. of bending cycles (C-track)10 Min. @ 25 °CNo. of bending cycles (C-track)10 m	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 crossection (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 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 - ack with @ 0 °C 2,5 kV @ 60 s Min. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating temperature min. (dynamic) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Gasoline resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance <td>Shore hardness wire insulation</td> <td>70 ± 5 Shore D</td>	Shore hardness wire insulation	70 ± 5 Shore D
Amount strands (wire)42Diameter 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)2 AElectrical resistance line constant wire26 Okm @ 20 °CAC withstand voltage (wire ·2,5 kV @ 60 sPower frequency withstand voltage (wire -2,5 kV @ 60 sPower frequency withstand voltage (wire -2,5 kV @ 60 sOperating temperature (static)-40 °CMax. operating temperature (static)-40 °CMax. operating temperature (mixed)80 °C / 90 °C @ 10000 h OperationOperating temperature (mixed)80 °C / 90 °C @ 10000 h OperationOperating temperature max. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceGood, application-related testingGasoline resistanceGood, application-related testingOli resistanceGood, application-related testingOli resistanceDi N EN 60811-404 Good, application-related testingBending radius (fixed)5 x Outer diameterNo. of bending cycles (C-track)10 m @ 25 °CTraversing distance (C-track)10 m @ 25 °CNo. of bending cycles (C-track)10 m @ 25 °CNo. of bending cycles (C-track)10 m @ 25 °C<	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Diameter of single wires 0,15 mm Conductor crosssection (wire) 0,75 mm ³ 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 wins wire 12 A Electrical resistance line constant wire 26 Ω/km @ 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 Querating temperature (static) -40 °C Max. operating temperature (static) -40 °C Querating temperature (static) -25 °C Operating temperature (static) -26 °C @ 10000 h Operation Fiame resistance Good, application-related testin	Printing color of wire insulation	white (isolation black)
Conductor crosssection (wire)0,75 mm²Material conductor wireStranded copper wire, bareConductor vype (wire)strand class 6Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)12 AElectrical resistance line constant wire26 D/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)-40 °CMax. operating temperature (static)-80 °C / 90 °C @ 10000 h OperationOperating temperature max. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2chemical resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)10 m @ 25 °CTraversing distance (C-track)10 m @ 25 °CNo. of bending cycles (C-track)10 m @ 25 °C <td< td=""><td>Amount strands (wire)</td><td>42</td></td<>	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 - iacket) -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 § 1009 IEC 60332-2-2 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing Poil resistance DIN EN 60811-404 Good, application-related testing Roding radius (fixed) 5 × Outer diameter No. of bording cycles (C-track)	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 (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature (fixed)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 testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (fixed)10 x Outer diameterNo. of bending cycles (C-track)10 m @ 25 °CTraversing distance (C-track)10 m @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	Conductor crosssection (wire)	0,75 mm ²
Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire12 AElectrical resistance line constant wire $26 \Omega/km @ 20 °C$ 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 resistanceUL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceDIN EN 60811-404 Good, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (fixed) $5 x Outer diameter$ Bending radius (fixed) $10 x Outer diameter$ No. of bending cycles (C-track)10 m @ 25 °CTraversing distance (C-track)10 m @ 25 °CNo. of torsion cycles2 Mio.Torsion stress $\pm 180 °/m$	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 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 (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature max. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceDIN EN 60811-404 Good, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (fixed)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	Conductor type (wire)	strand class 6
Current 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 sNin. operating temperature (static)-40 °CMax. operating temperature (tixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceDIN EN 60811-404 Good, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (fixed)5 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.	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 (static) -40 °C 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 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DiN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter 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	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 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 10 Mio. @ 25 °C Traversing distance (C-track) 10 m @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	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 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter 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	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 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (fixed)5 x Outer diameterBending cycles (C-track)10 Mio. @ 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
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 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending 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		2,5 kV @ 60 s
Operating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending 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	Min. operating temperature (static)	-40 °C
Operating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending 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	Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
Flame resistanceUL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending 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	Operating temperature min. (dynamic)	-25 °C
chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending 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	Operating temperature max. (dynamic)	80 °C / 90 °C @ 10000 h Operation
Gasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending 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	Flame resistance	UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2
Oil resistanceDIN EN 60811-404 Good, application-related testingBending 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	chemical resistance	Good, application-related testing
Bending 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	Gasoline resistance	Good, application-related testing
Bending 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	Oil resistance	DIN EN 60811-404 Good, application-related testing
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 (fixed)	5 x Outer diameter
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
Travel speed (C-track)3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	No. of bending cycles (C-track)	10 Mio. @ 25 °C
No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Traversing distance (C-track)	10 m @ 25 °C horizontal
Torsion stress ± 180 °/m	Travel speed (C-track)	3 m/s @ 25 °C
	No. of torsion cycles	2 Mio.
Torsion speed 35 cycles/min	Torsion stress	± 180 °/m
	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: 2025-09-06