

## M12 female 0° A-cod. with cable

PUR 3x0.34 bk UL/CSA+drag ch. 10m

Art.No.: 7000-12181-6331000 Weight: 0.314 Country of origin: US Model designation: MSBL0-R633 10.0

## Advantages of our connectors:

Our connectors are versatile and specially optimised for industrial environments. All connectors are 100% tested during the manufacturing process to ensure the highest quality and reliability.

The contacts are gold-plated, which ensures optimum conductivity. Thanks to the high degree of protection, the connectors are ideal for demanding industrial environments. They are also vibration-resistant - this is ensured by the union nut with vibration protection.

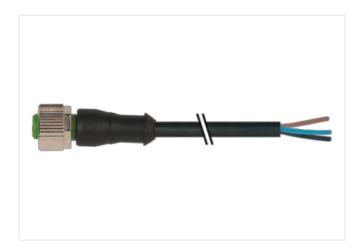
Our connectors are resistant to oils and cooling lubricants, but resistance to aggressive media should be tested for each specific application. Different cable lengths available <u>on request</u>

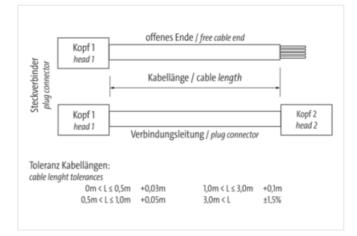
If you are missing technical information? Please feel free to use our <u>dictionary</u> to find more technical details.

Product details: Female straight M12, 3-pole Art-No. 7005 - M12 Lite - (plastic hexagonal screw) on request with cable sleeves 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. Further cable lengths on request.

## Link to Product

Illustration

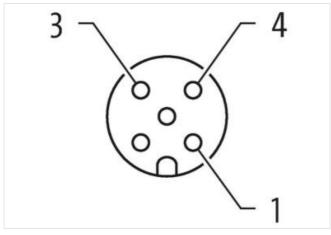




The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2025-08-04







Product may differ from Image



Cable length	10 m
Side 1	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Coating contact	gold plated
Family construction form	M12
Thread	M12 x 1
suitable for corrugated tube (internal Ø)	10 mm
Cable outlet	straight
Coding	A
Material contact	Copper alloy
Material	PUR
No. of poles	3
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Side 2	
Stripping length (jacket)	20 mm
Family construction form	free cable end

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: 2025-08-04



Commercial data	
ECLASS-6.0	27279218
ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0	27060311
ECLASS-10.1	27060311
ECLASS-11.1	27060311
ECLASS-12.0	27060311
ETIM-5.0	EC001855
customs tariff number	85444290
customs tariff number	85444290
EAN	4048879213424
EAN	4048879213424
Packaging unit	1
Packaging unit	1
Electrical data   Supply	
Operating voltage AC max.	250 V
Operating voltage DC max.	250 V
Current operating per contact max.	4 A
Diagnostics	
Status indication LED	no
Installation   Connection	
·	00
Stripping length (jacket)	20 mm
Mounting set Gender	M12 x 1 female
	lemale
Device protection   Electrical	
Degree of protection (EN IEC 60529)	IP65, IP67, IP66K
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	2,5 kV
Material group (IEC 60664-1)	1
Mechanical data   Material data	
Coating locking	Nickeled
Coating of fitting	nickel plated
Locking material	Zinc die-casting
Material screw connection	Zinc die-casting
Mechanical data   Mounting data	
Mounting method	inserted, screwed, Shaking protection
-	
Environmental characteristics   Climatic	
Operating temperature min.	-30 °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)
Installation   Cable	
wire arrangement	brown, black, blue

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: 2025-08-04



Calab Cable Type6.33Jacket ColorblackType of CertificatecURusAmount stranding1Stranding3 wires hvistedWire arrangementbrown, black, blueCable Weigh29,7 grmMaterial JacketPURShore hardness jacket92.5 Shore AFreedon from ingredients (jacket)4.1 mmToleranders uside4.1 mmCable weight3.5 %Amount vikes3Outer diameter (jacket)4.1 mmColuter diameter (jacket)5.5 %Amount vikes3Outer diameter insulationPPAmount vikes3Outer diameter insulation1.25 mmOuter diameter insulation7.0 ± 5 Shore DIngredient Keness whe insulation7.0 ± 5 Shore DIngredient Keness whe insulation7.0 ± 5 Shore DDameter of alignet witer solution7.0 ± 5 Shore DConductor rossection (wire)0.34 mm²Conductor rossection (wire)0.34 mm²Conductor viterStrand class 6Normal vitands (wire)35 Nrom GazoreConductor viterStrand class 6Normal vitands explorer wire)2.5 Nr @ 0 2° CConductor vites (wired)4.0 °CConductor vites (wired)4.0 °CConductor vitand vitang wire5.5 Nr @ 0 2° CConductor vitand vitang wire5.5 Nr @ 0 2° CConductor vitand vitang wires5.5 Nr @ 0 2° CConductor vitand vitang wires5.5 Nr @ 0 2° CConductor vitand vitan	Cable identification	633
Jacket Color Type of Cortificate cURus Type of Certificate cURus Amount stranding 1 Stranding 3 vires twisted wire arrangement brown, black, blue Cable weigth 29.7 g/m Material jacket PUR Shore hardness jacket PUR Shore hardness jacket PUR Shore hardness jacket PUR Cable weigth 29.7 g/m Material vire insulation PP Material wire insulation 1.25 mm Coulder diameter (lakelt) 1.25 mm Coulder diameter (lakelt) 70.25 Shore D Ingredient freeness wire insulation 1.25 Shore D Ingredient freeness weie insulation 1.25 Shore D Shore A Comax. Down if More Sharded Copper wire, bare Conductor type (wire) 3.5 Shore D Shore A Comax. Down if More Sharded Copper wire, bare Conductor type (wire) 3.5 Shore D Shore P Commentary fixed 2.5 KV @ 60 s Shore P Come Sharded Competiture (Shore D More Sharded Compatitient (Shore D Shore P Come	Cable identification	
Type of Certificate     cURus       Amount stranding     1       Amount stranding     1       Stranding     3 wires twisted       Wire arrangement     Drown, black, blue       Cable weigh     29, 7 gm       Material jacket     PUR       Shor hardness jacket     90 ± 5 Shore A       Freedom from ingredients (jacket)     4,1 mm       Tolerance outer diameter (staket)     4,1 mm       Outer-diameter (jacket)     4,1 mm       Outer diameter insulation     PP       Amount wires     3       Outer diameter insulation     1,25 mm       Outer diameter insulation     1,25 mm       Outer diameter insulation     2,5 %       Shore hardness wire insulation     1,25 mm       Outer diameter insulation     1,25 mm       Conductor crossection (wire)     4,24       Diameter of aligne wires     0,1 mm       Conductor type (wirn)     strand class 6       Normal voltage AC max.     300 V       Current load capacity (strandard or 1,25 kW @ 0.5 2       Power frequency witheland voltage (wire- staket)     2,5 kW @ 0.5		
Anount stranding   1     Stranding   3 wires wisted     Wrier arrangement   brown, black, blue     Cable wright   29.7 g/m     Material jacket   PUR     Stron hardness jacket   90 5 5 bnor A     Shor hardness jacket   90 5 5 bnor A     Outer diameter (jacket)   4.1 mm     Tolerance outer diameter (sheath)   2 5 %     Material wire insulation   PP     Amount wires   3     Outer diameter (jacket)   1.25 mm     Outer diameter insulation   70 ± 5 Shore D     Shor hardness wire insulation   70 ± 5 Shore D     Amount wires   0.1 mm     Conductor crossection (wire)   0.34 mm <sup>2</sup> Material conductor wire   0.1 mm     Conductor wire   0.34 mm <sup>2</sup> Material conductor wire   5 7 Akm @ 20 °C     Conductor wire   5 7 Akm @ 20 °C     Current load capacity (slandard)   to DIN VDE 0298-4     Current load capacity		
Stranding   3 wires twisted     wire arrangement   brown, black, blue     Cable weigh   29, 7 g m     Material jacket   90 ± 5 Shore A     Freedom Tron Ingredients (jacket)   Iead-free, cadmium-free, CFC-free, halogen-free, silicone-free     Outer-diameter (jacket)   4,1 mm     Tolerance outer diameter (sheath)   ± 5 %     Material wire insulation   PP     Amount wires   3     Outer diameter insulation   1.25 mm     Outer diameter insulation   1.25 mm     Outer diameter insulation   10 ± 5 %.     Shore hardness wire insulation   10 ± 5 %     Shore hardness wire insulation   10 ± 5 %.     Shore hardness wire insulation   10 ± 5 %.     Conductor trosses wire insulation   10 ± 5 %.     Diameter of single wires   0,1 mm     Conductor trossection (wire)   0.34 mm²     Material conductor wire   Stranded copper wire, bare     Conductor type (wire)   0.34 mm²     Conductor type (wire)   0.14 mm?     Conductor wire   Stranded copper wire, bare     Nominal voltage AC max.   300 V     Current load capacity (stindard) <td></td> <td></td>		
wire arrangement     brown, black, blue       Cable weight     29.7 g/m       Material jackt     FVB       Shore hardness jacket     90.5 S Shore A       Freedom from ingredients (jacket)     lead-free, cadmium-free, CFC-free, halogen-free, sillcone-free       Outer-diameter (gacket)     4,1 mm       Tolerance outer diameter (sheath)     1.5 %       Amount wires     3       Outer diameter (learnet)     1.25 mm       Outer diameter lolerance core insulation     70.5 %       Shore hardness wire insulation     70.5 S Shore D       Ingredient freeness wire insulation     1.25 mm       Outer diameter lolerance core insulation     70.5 S Shore D       Ingredient freeness wire insulation     1.24 mm       Conductor wire sossection (wire)     0.34 mm²       Diameter of single wires     0.1 mm       Conductor wire Stranded copper wire, bare     Conductor wire       Conductor wire Stranded copper wire, bare     Conductor wire       Current load capacity (standard)     to DIN VDE 298-4       Current load capacity (standard)     to DIN WDE 298-4       Current load capacity (standard)     to DIN WDE 298-4       Curr		
Cable weigh     29,7 g/m       Material jacket     PUR       Shore hardness jackt     90.5 Shore A       Freedom from ingradients (jacket)     lead-free, cadmium-free, CFC-free, halogen-free, silicone-free       Outer-diameter (jacket)     4,1 mm       Tolerance outer diameter (should)     5 %       Material wire insulation     PP       Arnount wires     3       Outer diameter insulation     1,25 mm       Outer diameter insulation     12,5 mm       Outer diameter insulation     12,5 mm       Outer diameter insulation     12,5 mm       Outer diameter insulation     12,6 mm       Ingradient freeness wire insulation     tead-free, cadmium-free, CFC-free, halogen-free, silicone-free       Amount strands (wire)     42       Diameter of single wires     0,1 mm       Conductor (rego wire)     5,3 Mm <sup>2</sup> Outer diameter (issulation     to 2,5 KV @ 0,0 P       Current load capacity (standerd)     to DIN VDE 0290-4       Current load capacity (wire)     5,7 KW @ 20 °C       AC withstand voltage (wire- wire)     2,5 KV @ 60 s       Power frequency withstand voltage (wire- wire)     2,5 KV @ 60 s </td <td></td> <td></td>		
Material jacket     PUR       Shore hardness jacket     90 ± 5 Shore A       Freedom Tom Ingredients (jacket)     lead-texe, cadmium-free, CFC-free, halogen-free, silicone-free       Outer-diameter (jacket)     4.1 mm       Tolerance outer diameter (sheath)     ± 5 %       Material wire Insulation     PP       Amount wires     3       Outer diameter Insulation     1.25 mm       Outer diameter Insulation     70 ± 5 Shore D       Ingredient freeness wire Insulation     16 ± 5 %       Material wire Insulation     16 ± 5 %       Shore hardness wire Insulation     16 ± 5 %       Material conductor or Insulation     12 5 %       Conductor crossection (wire)     0,1 mm       Conductor crossection (wire)     0,34 mm <sup>3</sup> Material conductor wire     Stranded copper wire, bare       Conductor wire     Stranded copper wire, bare <td></td> <td></td>		
Shore hardness jacket     90 ± 5 Shore A       Freedom from ingredients (jacket)     lead-tree, cadmium-free, CFC-free, halogen-free, silicone-free       Outer-diameter (jacket)     4.1 mm       Tolerance outer diameter (sheath)     ± 5 %       Material wire insulation     PP       Amount wires     3       Outer diameter insulation     1.25 mm       Outer diameter lolerance core insulation     ± 5 %       Shore hardness wire insulation     1.25 mm       Outer diameter folerance core insulation     ± 5 %       Shore hardness wire insulation     1.25 mm       Context for some some insulation     ± 5 %       Shore hardness wire insulation     1.25 mm       Context crossection (wire)     0.3 mm       Conductor crossection (wire)     0.34 mm <sup>2</sup> Diameter of alingle wires     0.1 mm       Conductor type (wire)     strande class 6       Nominal voltage AC max.     300 V       Current load capacity (wine - wire)     2.5 kV @ 60 s       Current load capacity (wire - wire)     2.5 kV @ 60 s       Power frequency withstand voltage (wire - wire)     2.5 kV @ 60 s       Min. operating temperature (static)		
Freedom from ingredients (jacket)   lead-free, cadmium-free, CFC-free, halogen-free, silicone-free     Outer-diameter (jacket)   4,1 mm     Tolerance outer diameter (sheath)   ± 5 %     Material wire insulation   PP     Amount Wires   3     Outer diameter insulation   1,25 mm     Outer diameter insulation   70 ± 5 Shore D     Ingredient freeness wire insulation   125 %     Shore hardness wire insulation   12 ± 5 Shore D     Ingredient freeness wire insulation   12 ± 5 Shore D     Ingredient freeness wire insulation   12 ± 5 Shore D     Conductor consessection (wire)   42     Diameter of single wires   0,1 mm     Conductor viressection (wire)   0,34 mm <sup>2</sup> Material conductor wire   Stranded copper wire, bare     Conductor trops (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 - 2,5 kV @ 60 s     Min. operating temperature (statc)   40 °C     Ma	-	
Outer-diameter (jacket)   4,1 mm     Tolerance outer diameter (sheath)   ± 5 %     Material virve insulation   PP     Amount virves   3     Outer diameter insulation   1,25 mm     Outer diameter tolerance core insulation   ± 5 %     Shore hardness wire insulation   1,25 mm     Outer diameter tolerance core insulation   ± 5 %     Shore hardness wire insulation   1ead-tree, cadmium-tree, CFC-tree, halogen-free, silicone-free     Amount strands (wire)   42     Diameter of single wires   0,1 mm     Conductor type (wire)   0,34 mm²     Material conductor wire   Strande copper wire, bare     Conductor type (wire)   strand class 6     Nominal voltage AC max.   300 V     Current load capacity (standard)   to DIN VDE 0296-4     <	•	
Tolerance outer diameter (sheath)   ± 5 %     Material wire insulation   PP     Amount wires   3     Outer diameter insulation   1,25 mm     Outer diameter insulation   ± 5 %     Shore hardness wire insulation   70 ± 5 Shore D     Ingredient freeness wire insulation   12 ± 5 %     Amount strands (wire)   42     Diameter of single wires   0,1 mm     Conductor crossection (wire)   0,24 mm²     Material conductor wire   Stranded copper wire, bare     Conductor vire   Stranded copper wire, bare     Conductor wire   2,5 kV @ 00 ×     Current toad capacity (standard)   to DIN VDE 0298-4     Current toad capacity (wine)   2,5 kV @ 00 ×     Jackel)		
Material wire insulation PP   Amount wires 3   Outer diameter insulation 1,25 mm   Outer diameter insulation 2 5 %   Shore hardness wire insulation 70 ± 5 Shore D   Ingredient freeness wire insulation 125 mm   Outer diameter of single wires 0,1 mm   Conductor crosssection (wire) 0,34 mm²   Material conductor wire Stranded copper wire, bare   Conductor rosssection (wire) 0,34 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) 2,5 kV @ 60 s   Max. operating temperature (static) -40 °C   Max. operating temperature (static) -40 °C   Max. operating tempera		4,1 mm
Amount wires   3     Outer diameter insulation   1.25 mm     Outer diameter lolerance core insulation   ± 5 %     Shore hardness wire insulation   1e 3 5 Shore D     Ingredient freeness wire insulation   lead-free, cadmium-free, CFC-free, halogen-free, silicone-free     Amount strands (wire)   42     Diameter of single wires   0,1 mm     Conductor rowssection (wire)   0,34 mm²     Material conductor wire   Stranded copper wire, bare     Conductor type (wire)   strand class 6     Nominal voltage AC max.   300 V     Current load capacity min. wire   6 A     Electrical resistance line constant wire   57 CMm @ 20 °C     AC 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)   -40 °C     Max. operating temperature (fixed)   80 °C /90 °C @ 10000 h Operation     Operating temperature (static)   -40 °C     Flame resistance   UL 1581 § 1100 FT2   IEC 60332-2-2     Chemical resistance   Good, application-related testing     Gasoline resistance   Good, ap	Tolerance outer diameter (sheath)	±5%
Outer diameter insulation     1,25 mm       Outer diameter tolerance core insulation     ± 5 %       Shore hardness wire insulation     70 ± 5 Shore D       ingredient freeness wire insulation     Read-free, cadmium-free, CFC-free, halogen-free, silicone-free       Amount strands (wire)     42       Diameter of single wires     0,1 mm       Conductor rossection (wire)     0,34 mm²       Material conductor wire     Stranded copper wire, bare       Conductor type (wire)     strand class 6       Nominal voltage AC max.     300 V       Current load capacity min. wire     6 A       Electrical resistance line constant wire     57.0km @ 20 °C       AC withstand voltage (wire - wire)     2,5 kV @ 60 s       Power frequency withstand voltage (wire - wire)     2,5 kV @ 60 s       Min. operating temperature (static)     -40 °C       Max. operating temperature (static)     -40 °C       Max. operating temperature (fixed)     80 °C / 90 °C @ 10000 h Operation       Operating temperature max. (dynamic)     05 °C @ 10000 h Operation       UV resistance     DIN EN ISO 4892·2 A       Flame resistance     UL 1581 § 1100 FT2   IEC 60332·2·2       Chemical resistanc	Material wire insulation	PP
Outer diameter tolerance core insulation   ± 5 %     Shore hardness wire insulation   70 ± 5 Shore D     Ingredient freeness wire insulation   lead-free, cadmium-free, CFC-free, halogen-free, silicone-free     Amount strands (wire)   42     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     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 (win- wire)   2.5 kV @ 60 s     Power frequency withstand voltage (wire - wire)   2.5 kV @ 60 s     Power frequency withstand voltage (wire - do °C @ 10000 h Operation   00 Poerating temperature (fixed)     0perating temperature (fixed)   80 °C / 90 °C @ 10000 h Operation     0perating temperature max. (dynamic)   80 °C / 90 °C @ 10000 h Operation     0perating temperature max. (dynamic)   80 °C / 90 °C @ 10000 h Operation     0perating temperature max. (dynamic)   80 °C / 90 °C @ 10000 h Operation     0Dir esistance   DIN EN 50 4892-2 A     Flame resistance   Good, application-rela	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     Amount strands (wire)   42     Diameter of single wires   0,1 mm     Conductor crosssection (wire)   0,34 mm <sup>2</sup> 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 - 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)   -20 °C @ 10000 h Operation     Operating temperature (static)   -20 °C @ 00000 h Operation     UV resistance   DIN EN ISO 4892-2 A     Flame resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Oil resistance   Good, application-related testing IDN EN 60811-404     Bending radius (fixed)   5 x	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 corsessection (wire)   0,34 mm <sup>2</sup> Material conductor wire   Stranded copper wire, bare     Conductor type (wire)   strand class 6     Nominal voltage AC max.   300 V     Current load capacity (stendard)   to DIN VDE 0298-4     Current load capacity (winth wire   6 A     Electrical resistance line constant wire   57 £ 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 (static)   -40 °C     Ilan resistance   DIN EN ISO 4892-2 A     Flame resistance   Good, application-related testing	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     Nominal voltage AC max.   300 V     Current load capacity (standard)   to DIN VDE 0298-4     Current load capacity min. wire   6 A     Electrical resistance line constant wire   57 Ω/km @ 20 °C     AC withstand voltage (wire - wire)   2,5 kV @ 60 s     Power frequency withstand voltage (wire - inclusted wire)   2,5 kV @ 60 s     Min. operating temperature (static)   -40 °C     Max. operating temperature (static)   -40 °C     Max. operating temperature (fixed)   80 °C / 90 °C @ 10000 h Operation     Operating temperature max. (dynamic)   -25 °C     Operating temperature max. (dynamic)   80 °C / 90 °C @ 10000 h Operation     UV resistance   DIN EN ISO 4882-2 A     Flame resistance   UL 1581 § 1000   UL 1581 § 1100 FT2   IEC 60332-2-2     chemical resistance   Good, application-related testing     Gaile resistance   Good, application-related testing     Oil resistance   Good, application-related testing	Shore hardness wire insulation	70 ± 5 Shore D
Diameter of single wires   0,1 mm     Conductor crosssection (wire)   0,34 mm²     Material conductor wire   Stranded copper wire, bare     Conductor type (wire)   strand class 6     Mominal voltage AC max.   300 V     Current load capacity (standard)   to DIN VDE 0298-4     Catistant voltage (wire - wire)   2,5 kV @ 60 s     Power frequency withstand voltage (wire - is,5 kV @ 60 s   2,5 kV @ 60 s     Max. operating temperature (static)   -40 °C     Max. operating temperature (dynamic)   -25 °C     Operating temperature min. (dynamic)   -25 °C     Operating temperature min. (dynamic)   80 °C / 90 °C @ 10000 h Operation     UV resistance   DIN EN ISO 4892-2 A	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Conductor crosssection (wire)0,34 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)57 D/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 °C @ 10000 h OperationOperating temperature max. (dynamic)25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationUV resistanceUL 1581 § 1000 FT2   IEC 60332-2-2Chemical resistanceUL 1581 § 1000 FT2   IEC 6032-2-2Chemical resistanceGood, application-related testingOil resistance	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 wire   6 A     Electrical resistance line constant wire   57 Ω/km @ 20 °C     AC withstand voltage (wire - wire)   2,5 kV @ 60 s     Power frequency withstand voltage (wire - lacket)   -40 °C     Max. operating temperature (static)   -40 °C     Max. operating temperature (static)   -40 °C     Max. operating temperature min. (dynamic)   25 °C     Operating temperature max. (dynamic)   80 °C / 90 °C @ 10000 h Operation     UV resistance   DIN EN ISO 4892-2 A     Flame resistance   GL 1581 § 1100 FT2   IEC 60332-2-2     Chemical resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Oil resistance   Good, application-related testing <	Diameter of single wires	0,1 mm
Conductor type (wire)   strand class 6     Nominal voltage AC max.   300 V     Current load capacity (standard)   to DIN VDE 0298-4     Current load capacity min. wire   6 A     Electrical resistance line constant wire   57 Ω/km @ 20 °C     AC withstand voltage (wire - wire)   2,5 kV @ 60 s     Power frequency withstand voltage (wire - lack to a constant wire)   2,5 kV @ 60 s     Min. operating temperature (static)   -40 °C     Max. operating temperature (static)   -40 °C     Max. operating temperature (fixed)   80 °C / 90 °C @ 10000 h Operation     Operating temperature max. (dynamic)   -25 °C     Operating temperature max. (dynamic)   -25 °C     Operating temperature max. (dynamic)   50 °C / 90 °C @ 10000 h Operation     UV resistance   UI 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2     chemical resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Oil resis	Conductor crosssection (wire)	0,34 mm <sup>2</sup>
Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire6 AElectrical resistance line constant wire57 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 °CMax. operating temperature (static)-40 °COperating temperature (static)-40 °CMax. operating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testing   DIN EN 60811-404Bending radius (dynamic)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	Material conductor wire	Stranded copper wire, bare
Current load capacity (standard)   to DIN VDE 0298-4     Current load capacity min. wire   6 A     Electrical resistance line constant wire   57 Ω/km @ 20 °C     AC withstand voltage (wire - wire)   2,5 kV @ 60 s     Power frequency withstand voltage (wire - jacket)   2,5 kV @ 60 s     Min. operating temperature (static)   -40 °C     Max. operating temperature (fixed)   80 °C / 90 °C @ 10000 h Operation     Operating temperature min. (dynamic)   -25 °C     Operating temperature max. (dynamic)   80 °C / 90 °C @ 10000 h Operation     UV resistance   DIN EN ISO 4892-2 A     Flame resistance   UL 1581 § 1000   UL 1581 § 1100 FT2   IEC 60332-2-2     chemical resistance   Good, application-related testing     Gili resistance   Good, application-related testing     Oil resistance   Good, application-related testing <td< td=""><td>Conductor type (wire)</td><td>strand class 6</td></td<>	Conductor type (wire)	strand class 6
Current load capacity min. wire   6 A     Electrical resistance line constant wire   57 Ω/km @ 20 °C     AC withstand voltage (wire - wire)   2,5 kV @ 60 s     Power frequency withstand voltage (wire - 2,5 kV @ 60 s     Min. operating temperature (static)   -40 °C     Max. operating temperature (static)   -40 °C     Max. operating temperature (fixed)   80 °C / 90 °C @ 10000 h Operation     Operating temperature min. (dynamic)   -25 °C     Operating temperature max. (dynamic)   80 °C / 90 °C @ 10000 h Operation     UV resistance   DIN EN ISO 4892-2 A     Flame resistance   UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2     chemical resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Oil resistance   Good, application-related testing     Oil resistance   Good, application-related testing   DIN EN 60811-404     Bending radius (fixed)   5 x Outer diameter     Bending radius (dynamic)   10 x Outer diameter     No. of 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	Nominal voltage AC max.	300 V
Electrical resistance line constant wire   57 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 (fixed)   80 °C / 90 °C @ 10000 h Operation     Operating temperature min. (dynamic)   -25 °C     Operating temperature max. (dynamic)   80 °C / 90 °C @ 10000 h Operation     UV resistance   DIN EN ISO 4892-2 A     Flame resistance   UL 1581 § 1100 FT2   IEC 60332-2-2     chemical resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Oil resistance   Good, application-related testing     Din k D voter diameter   No. of bending cycles (C-track)     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 t	Current load capacity (standard)	to DIN VDE 0298-4
AC withstand voltage (wire - wire)   2,5 kV @ 60 s     Power frequency withstand voltage (wire -   2,5 kV @ 60 s     Min. operating temperature (static)   -40 °C     Max. operating temperature (ixed)   80 °C / 90 °C @ 10000 h Operation     Operating temperature min. (dynamic)   -25 °C     Operating temperature max. (dynamic)   80 °C / 90 °C @ 10000 h Operation     UV resistance   DIN EN ISO 4892-2 A     Flame resistance   UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2     chemical resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Oil resistance   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     No. of bending cycles   2 Mio.     Traversing distance (C-track)   3 m/s @ 25 °C     No. of torsion cycles   2 Mio.	Current load capacity min. wire	6 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     UV resistance   DIN EN ISO 4892-2 A     Flame resistance   UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2     chemical resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Oil resistance   Good, application-related testing     No. of bending cycles (C-track)   10 No @ 25 °C     Traversing distance (C-track)   10 m @ 25 °C     No. of torsion cycles   2 Mio.     Torsion stress   ± 180 °/m	Electrical resistance line constant wire	57 Ω/km @ 20 °C
jacket)2,5 kV @ b0 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 OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceUL 1581 § 1090   UL 1581 § 1100 FT2   IEC 6032-2-2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingDin co 25 °CTraversing distance (C-track)10 m @ 25 °CInvizontalTraversing 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)   Automatic and the second	Power frequency withstand voltage (wire -	
Max. operating temperature (fixed)   80 °C / 90 °C @ 10000 h Operation     Operating temperature min. (dynamic)   -25 °C     Operating temperature max. (dynamic)   80 °C / 90 °C @ 10000 h Operation     UV resistance   DIN EN ISO 4892-2 A     Flame resistance   UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2     chemical resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Oil resistance   Good, application-related testing     No. of 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	jacket)	2,5 KV @ 60 S
Operating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceUL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingNo. of bending radius (dynamic)10 x Outer diameterBending radius (dynamic)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 OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceUL 1581 § 1000   UL 1581 § 1100 FT2   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 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		80 °C / 90 °C @ 10000 h Operation
UV resistanceDIN EN ISO 4892-2 AFlame resistanceUL 1581 § 1090   UL 1581 § 1100 FT2   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	Operating temperature min. (dynamic)	-25 °C
Flame resistanceUL 1581 § 1090   UL 1581 § 1100 FT2   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 °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
chemical 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 diameterBending 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	UV resistance	DIN EN ISO 4892-2 A
Gasoline resistance   Good, application-related testing     Oil resistance   Good, application-related testing   DIN EN 60811-404     Bending radius (fixed)   5 x Outer diameter     Bending radius (dynamic)   10 x Outer diameter     No. of 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	Flame resistance	UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2
Oil resistance   Good, application-related testing   DIN EN 60811-404     Bending radius (fixed)   5 x Outer diameter     Bending radius (dynamic)   10 x Outer diameter     No. of 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	chemical 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 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	Gasoline resistance	Good, application-related testing
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	Oil resistance	Good, application-related testing   DIN EN 60811-404
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 °C   No. of torsion cycles 2 Mio.   Torsion stress ± 180 °/m	No. of bending cycles (C-track)	10 Mio. @ 25 °C
No. of torsion cycles2 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: 2025-08-04