

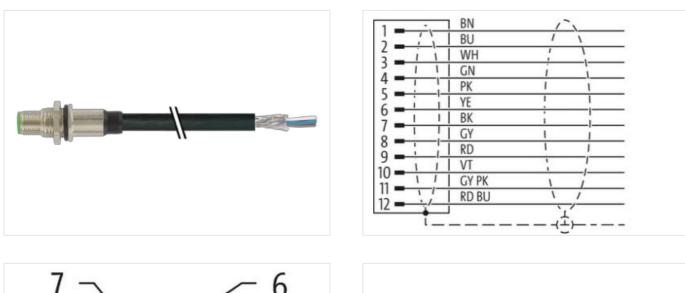
## M12 male recept. A-cod. shielded rear mount

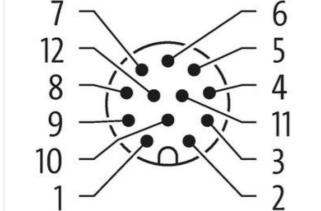
PUR 12x0.14 shielded bk UL/CSA+drag ch. 1,5m

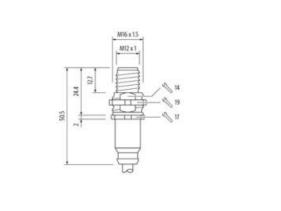
Flange male M12, 12-pole shielded Front mounting

## Link to Product

Illustration







Product may differ from Image



Cable length	1,5 m	
Side 1		
Tightening torque	0,6 Nm	
Mounting method	inserted, screwed	
Family construction form	M12	

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: 2024-05-04

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Thread	M12 x 1
Coding	A
Material	Brass
No. of poles	12
Degree of protection (EN IEC 60529)	IP67
Commercial data	
ECLASS-6.0	27279218
ECLASS-6.1	27279220
ECLASS-7.0	27440103
ECLASS-8.0	27440103
ECLASS-9.0	27440103
ECLASS-10.1	27440103
ECLASS-11.1	27440103
ECLASS-12.0	27440103
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879839280
Packaging unit	1
Electrical data   Supply	
Operating voltage AC max.	30 V
Operating voltage DC max.	30 V
Current operating per contact max.	1,5 A
Installation   Connection	
Mounting set Width across flats	M16 x 1.5 SW19
	20019
Device protection   Electrical	
Protection NEMA	3, 4, 6P
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	0,8 kV
Material group (IEC 60664-1)	I
Mechanical data   Material data	
Coating housing	nickel plated
Coating of fitting	nickel plated
Material screw connection	Brass
Mechanical data   Mounting data	
Mounting method	inserted, screwed
Environmental characteristics   Climatic	
Operating temperature min.	-25 °C 85 °C
Operating temperature max.	
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.
Approvals	
UL 50E	yes
Installation   Cable	
	700
Cable identification	706
Cable Type	3

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Type of Certificatio     CHLs       Amount stranding (type 2)     1       Stranding (type 2)     9 wires aread Stranding combination twisted       Cable Stranding (type 2)     9 wires aread Stranding combination twisted       Cable Stranding (type 2)     0 opper trad, timed       Stranding (type 2)     0 opper trad, timed       Stranding (type 2)     0 opper trad, timed       Traversing distance (C track)     5 m @ 25 °C   hortcontal       Cable weight     0 f. 1 opm       Material area     0 ta 5 Shore A       Freedom from frequents (tackst)     0 f. 5 rm       Outer diameter (tackst)     5 5 rm       Amount twiss     12       Outer diameter instaltion     1 rm       Outer diameter i	Jacket Color	black
Stranding   3 wires twisted     Amount stranding (type 2)   1     Stranding (type 2)   9 wires around Stranding combination twisted     Cable Stricting (torverge)   80 %     Banding   Fileeos, Foil     wire arrangement   gray-pink, violet, red blue, brown, rud, gray, black, yellow, pink, green, white, blue     Traversing distance (C-track)   5 m @ 28 %C I horizontal     Cable stricting (coverge)   5 m @ 28 %C I horizontal     Material jackst   PUR     Shorn hardness jackst   90 ± 5 Shorn A     Freedom from ingredients (jackat)   6 5 m     Tolerance outer diameter (fackat)   6 5 %     Amount wires   12     Outer diameter (fackat)   1 5 %.     Material wire instation   PP     Amount wires   12     Outer diameter (orbance core insulation   1 5 %.     Shorn hardness wire insulation   70 ± 5 Shorn D     Torrances wire insulation   10 m     Conductor consection (wire)   10 m     Conductor consection (wire)   0.1 mm?     Conductor wire   Stranded copper wire, bare     Conductor wire   Stranded copper wire, bare     Co	Type of Certificate	cURus
Anoarti stranding (type 2)   1     Stranding (type 2)   9 wires around Stranding combination twisted     Cable sitelified (type)   cooper brail, finned     Cable sitelified (type)   cooper brail, finned     Cable sitelified (type)   80 %     Banding   Piesee, Foil     wire arrangement   gray pink, wiolet, red blue, brown, red, gray, black, yellow, pink, green, while, blue     Traversing distance (C-tack)   5 m @ 25 °C (Incontal     Cable weight   67.1 g/m     Matoral jacket   90 ± 5 Shoo A     Freedom Irom impadients (jacket)   6.5 %     Outer diameter (gisket)   6.5 m     Tolerance user diameter (shath)   1 5 %     Matoral wire insulation   1 m     Outer diameter insulation   1 m     Outer diameter insulation   1 m     Outer diameter insulation   1 5 %     Shore hardness wire insulation   1 5 %     Shore hardness wire insulation   1 sea free, cadmium free, CPC free, halogen-free, sitcone-free     Amount strads (wire)   18     Diameter dispite wires   0 1 mm     Canductor crossection (wire)   0 14 mm²     Anount strads (wire)   10 DV VDE 22	Amount stranding	1
Standing (type 2)   9 wires around Standing combination twisted     Cable sheking (type)   copper braid, fined     Cable sheking (type)   09 %     Banding   Fibeoo, Foil     wire arrangement   gray pitk, Volet, rold blue, brown, red, gray, black, yellow, pink, green, white, blue     Traversing distance (C-track)   5 m (0 25 °C   horizontal     Cable weight   67.1 g/m     Material jack   PUR     Shore hardness jacket   90 ± 5 Shore A     Freedom from ingredients (jacket)   6.6 m     Outer -diamoter (jacket)   6.5 m     Tolerance outer diameter (health)   5 %     Shore hardness jacket   12     Outer diameter (insulation   1 nm     Conductor or one insulation   1 1 mm <sup>2</sup> Material view view insulation   1 5 %     Shore hardness view insulation   1 4 m <sup>2</sup> Material view view insulation   1 1 mm <sup>2</sup> Material view view insulation   1 1 mm <sup>2</sup> Material view view insulation   1 1 0 DN VOE 0288.4	Stranding	3 wires twisted
Cable shielding (type)     copper braid, finned       Cable shielding (coverage)     80 %       Banding     Reace, Foll       Wire arrangement     gray-pirk, violer, red-blue, brown, red, gray, black, yellow, pirk, green, while, blue       Taversing distance (C-track)     5 m 0 25 CP (prozonal)       Cable weigh     67.1 g/m       Material jackett     PUR       Shore hardness jacket     90.5 Shore A       Freedom from ingredient (gacket)     6.6 m       Cuber-dismeter (gacket)     6.5 m       Tolerance outrie d'amoter (shealth)     ± 5 %.       Material twire insulation     PP       Amount wise     12       Outer diameter toinsulation     1 mm       Outer diameter insulation     1 mm       Outer diameter toinsulation     1 mm       Conduct crosssection (wire)     0,14 mm?       Conduct crosssection (wire)     0,14 mm?       Consult crosssection (wire)     0,14 mm?	Amount stranding (type 2)	1
Cable shielding (coverage)     80 %       Banding     Fleece, Foil       wrie arrangement     gray-pirk, violet, red-blue, brown, red, gray, black, yellow, pirk, green, white, blue       Traversing distance (C-track)     5 m @ 25 °C   hortzontal       Cable weigh     67,1 g/m       Material jacket     PUR       Shore hardness jacket     90 5 5 Shore A       Freedom from ingredients (jacket)     6.5 mm       Tolerance outer dameter (jacket)     6.5 mm       Tolerance outer dameter (jacket)     5.5 Nore A       Freedom from ingredients (jacket)     6.5 mm       Tolerance outer dameter (cloated)     5.5 %       Material wire insulation     PP       Amount wrise     12       Outer diameter insulation     1 mm       Outer diameter insulation     70 = 5 Shore D       Ingredient fromes wire insulation     16 3       Diameter of single wires     0.1 mm       Conductor wires     Stranded coper wire, bare       Conductor wire     Stranded coper wire, bare       Conductor wire     Stranded coper wire, bare       Conductor wire     Stranded coper wire, bare       Conductor	Stranding (type 2)	9 wires around Stranding combination twisted
Banding     Flaeca. Foil       wire arragement     gray.pink. violet, robbite, brown, red. gray, black, yellow, pink, green, white, blue       Traversing distance (C-track)     5 m (#2 5°C) horizontal       Cable weight     67,1 g/m       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)     6,5 mm       Tolerance outer dameter (sheat)     5 %       Matorial wire insulation     PP       Amount wires     12       Outer diameter insulation     1 mm       Outer diameter insulation     1 s %       Shore hardness wire insulation     1 s 5 %       Ingredient freeness wire insulation     1 s 5 %       Dameter of single wires     0,1 mm       Candudor crosssection (wire)     0.4 mm²       Material conductor wire     Stranded copper wire, bare       Conductor roge (wire)     1 s Mm²       Candudor proge (wire)     1 s Mm²       Candudor group (wire)     1 s Mm²       Candudor group (wire)     1 s Mm²       Material	Cable shielding (type)	copper braid, tinned
wire arrangement     gray-pink, violet, red-blue, brown, red, gray, black, yellow, pink, green, white, blue       Traversing distance (C-track)     5 m @ 25 °C (Inorizontal       Cable weigh     67,1 g/m       Material jacket     PUR       Shore handness jackat     90.1 5 Shore A       Freedom from ingredents (jacket)     lead-free, cadmium-free, CFC-free, halogen-free, silicone-free       Outer diameter (jacket)     6.5 mm       Tolerance outer diameter (jacket)     1 5 %       Material wire insulation     PP       Amount wires     12       Outer diameter tolerance orie insulation     1 mm       Outer diameter tolerance orie insulation     70.5 Shore D       Tingredient Trienenses wire insulation     1 mm       Conductor torgenes wire insulation     1 mm       Conductor torge (wire)     Stranded copper twe. bare	Cable shielding (coverage)	80 %
Traversing distance (C-track)   5 m @ 25 °C   horizontal     Cable weight   67.1 g/m     Material jackt   PUR     Shore hardness jackt   90 ± 5 Shore A     Freedom from ingredients (jacket)   lead tree, cadmium free, CFC-tree, halogen-free, silicone-free     Oulder diameter (galxet)   6.5 mm     Tolerance outer (diameter (sheath)   ± 5 %     Material jackt   PP     Amount wires   12     Oulder diameter insulation   1 mm     Outer diameter insulation   70 ± 5 Shore D     Ingredient freeness wire insulation   10 ± 5 %     Mount wires   18     Darker diameter insulation   10 ± 5 %     Material onductor wires   0.1 mm     Conductor crossection (wire)   0.1 mm     Conductor type (wire)   strand class 6     Nominal voltage AC max.   300 V     Conductor type (wire)   2 A     Electrical resistance line constant wire   2 A     Cavity and voltage (wire - shield)   1 DIN VDE D28-4     Current load capacity (standard)   10 DIN VDE D28-4     Current load capacity (standard)   2 AV @ 60 s     Power frequency withstand volta	Banding	Fleece, Foil
Cable weight 67,1 g/m   Material jacket PUR   Shore hardmess jacket 90 4.5 Shore A   Freedom from ingredients (jacket) lead free, cadmium free, CFC free, halogen free, silicone free   Outer diameter (jacket) 6.5 mm   Tolerance outer diameter (sheath) ± 5 %   Material wire insulation PP   Amount wires 12   Outer diameter forbance core insulation 1 mm   Outer diameter tolerance core insulation 1 5 %   Shore hardmess wire insulation 70 ± 5 Shore D   Ingredient freeness wire insulation 10 mm   Conductor torses wire insulation 1 mm   Conductor torses wire insulation 1 mm   Conductor torsescetion (wire) 0.1 mm   Conductor torsescetion (wire) 0.1 mm   Conductor torsescetion (wire) 0.1 mm   Conductor torsescetion (wire) 18 andee copper wire, bare   Conductor torsescetion (wire) 0.1 mm   Conductor torsescetion (wire) 13 B Arm @ 2 A   Electrical resistance in a constant wire 2 A   Current load capacity (standard) to DIN VDE 0288-4   Current load capacity (wire - wire) 2 kV @ 60 s   Power frequency withstand voltage (wire - wire) 2 kV @ 60 s   Min. operating temperature (taskt)	wire arrangement	gray-pink, violet, red-blue, brown, red, gray, black, yellow, pink, green, white, blue
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)     6.5 mm       Tolerance outer diameter (jacket)     5.5 mm       Material wire insulation     PP       Amount vires     12       Outer diameter insulation     1 mm       Outer diameter insulation     70 ± 5 Shore D       Ingredient freeness wire insulation     1ead-free, cadmium-free, CFC-free, halogen-free, silicone-free       Amount strands (wire)     18       Diameter of single wires     0,1 mm       Conductor crosssection (wire)     0,14 mm <sup>2</sup> Material conductor wire     Stranded copper wire, bare       Conductor vice dapacity (standard)     to DN VDE 0298-4       Current toad capacity (wire - wire)     2 kV @ 60 s	Traversing distance (C-track)	5 m @ 25 °C   horizontal
Shore hardness jacket     90 ± 5 Shore A       Freedom from ingredients (jacket)     lead-free, cadmium-free, CFC-free, halogen-free, silicone-free       Outer diameter (jacket)     5.5 mm       Tolerance outer diameter (jacket)     ± 5 %       Material wire insulation     PP       Amount wires     12       Outer diameter loarcance core insulation     1 mm       Outer diameter loarcance core insulation     1 5 %       Shore hardness wire insulation     10 ± 5 Shore D       Ingredient freeness wire insulation     16 ± 5 %       Amount strands (wire)     18       Diameter of a single wires     0,1 mm       Canductor crosssection (wire)     0,14 mm²       Material conductor wire     Stranded copper wire, bare       Conductor type (wire)     strande close 8       Normit voltage AC max.     300 V       Current load capacity (standarci)     to DIN VDE C284-4       Current load capacity (standarci)     to DIN VDE C284-4       Current load capacity (wind)     2 AV @ 60 s       Electrical resistance line constant wire     13 CArm @ 20 °C       AC withstand voltage (wire - wire)     2 AV @ 60 s       Dower freque	Cable weigth	67,1 g/m
Freedom from ingrodients (jacket)   lead-free, cadmium-free, CFC-free, halogen-free, silicone-free     Outer diameter (jacket)   5,5 mm     Tolerance outer diameter (sheath)   ± 5 %     Material wire insulation   PP     Amount wires   12     Outer diameter insulation   1 mm     Outer diameter insulation   25 %     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)   18     Diameter of single wires   0,1 mm     Conductor crossection (wire)   0,14 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 min. wire   2 A     Electrical resistance line constant wire   138 O/km g20 * C     AC withstand voltage (wire - wine)   2 kV @ 60 s     Conductor withstand voltage (wire - wine)   2 kV @ 60 s     Conductor withstand voltage (wire - wine)   2 kV @ 60 s     Min. operating temperature (static)   40 °C     Min. operating temperature (static)   40 °C	Material jacket	PUR
Outer diameter (jacket)     6,5 mm       Tolerance outer diameter (sheath)     ± 5 %       Matrial wire insulation     PP       Amount wires     12       Outer diameter tolerance core insulation     1 mm       Outer diameter tolerance core insulation     70 ± 5 Shore D       Ingredient freeness wire insulation     10 ± 5 %       Shore hardness wire insulation     10 ± 5 Shore D       Ingredient freeness wire insulation     18       Diameter of single wires     0,1 mm       Conductor rossection (wire)     0,14 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 (wire - wire)     2 kV @ 60 s       AC withstand voltage (wire - vire)     2 kV @ 60 s       Min. operating temperature (stacle)     -4 0 °C       Max. operating temperature (fixed	Shore hardness jacket	90 ± 5 Shore A
Tolerance outer diameter (sheath)   ± 5 %     Material wire insulation   PP     Amount wires   12     Outer diameter insulation   1 mm     Outer diameter tolerance core insulation   ± 5 %     Shore hardness wire insulation   70 ± 5 Shore D     Imgredient Treeness wire insulation   read-free, cadmium-free, CFC-free, halogen-free, silicone-free     Amount strands (wire)   18     Diameter of single wires   0,1 mm     Conductor or sossection (wire)   0,14 mm²     Material conductor wire   Strand dosp 6     Conductor or sossection (wire)   0,14 mm²     Material conductor wire   Strand dosp 6     Conductor or sossection (wire)   strand class 6     Nominal voltage AC max.   300 V     Current load capacity (standard)   to DIN VDE 0298-4     Current load capacity (wine)   2 K V @ 60 s     Power frequency withstand voltage (wire · wire)   2 k V @ 60 s     Rower frequency withstand voltage (wire · shield)   2 kV @ 60 s     Material resistance   Ek (V @ 60 s     Mr. operating temperature (static)   40 °C     Max. operating temperature (static)   40 °C     Max. ope	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Material wire insulation     PP       Amount wires     12       Outer diameter insulation     1 mm       Outer diameter follerance core insulation     15 %       Shore hardness wire insulation     70 ± 5 Shore D       Ingredient freeness wire insulation     165 %       Shore hardness wire insulation     162 Shore D       Ingredient freeness wire insulation     18       Diameter of single wires     0,1 mm       Conductor crosssection (wire)     0,14 mm²       Material conductor wire     Stranded copper wire, bare       Conductor (wire)     strand class 6       Nominal voltage AC max.     300 V       Current load capacity (standard)     to DIN VDE 0298-4       Careert frequency withstand voltage (wire - isla D km @ 20 °C       AC withstand voltage (wire - wire)     2 kV @ 60 s       Max. operating temperature (static)     -40 °C       Max. operating temperature (static)     -40 °C       Max. operating temperature (static) <td< td=""><td>Outer-diameter (jacket)</td><td>6,5 mm</td></td<>	Outer-diameter (jacket)	6,5 mm
Amount wires   12     Outer diameter insulation   1 mm     Outer diameter tolerance core insulation   ± 5 %     Shore hardness wire insulation   Iead-free, cadmium-free, CFC-free, halogen-free, silicone-free     Amount strands (wire)   18     Diameter of single wires   0,1 mm     Conductor orsessection (wire)   0,14 mm²     Material conductor wire   Stranded copper wire, bare     Conductor type (wire)   0,14 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 (wire)   2 KV @ 60 s     Power frequency withstand voltage (wire - wire)   2 kV @ 60 s     Ac withstand voltage (wire - shield)   2 kV @ 60 s     Mire. operating temperature (fixed)   80 °C / 90 °C @ 10000 h Operation     Operating temperature (ixed)   80 °C / 90 °C @ 10000 h Operation     Operating temperature (ixed)   80 °C / 90 °C @ 10000 h Operation     Operating temperature (ixed)   80 °C / 90 °C @ 10000 h Operation	Tolerance outer diameter (sheath)	± 5 %
Outer diameter insulation     1 mm       Outer diameter tolerance core insulation     ± 5 %       Shore hardness wire insulation     70 ± 5 Shore D       Impredient Freeness wire insulation     lead-free, cadmium-free, CFC-free, halogen-free, silicone-free       Amount strands (wire)     18       Diameter of single wires     0,1 mm       Conductor crosssection (wire)     0,14 mm²       Material conductor wire     Stranded copper wire, bare       Conductor type (wire)     stranded copper wire, bare       Current toad capacity (standard)     to DIN VDE 0298-4       Current toad capacity (min: wire)     2 A       Electrical resistance line constant wire     138 Ω/km @ 20 °C       AC withstand voltage (wire - wire)     2 kV @ 60 s       Min: operating temperature (stacit)     -40 °C       Max. operating temperature (stacit)     2 80 °C 90 °C @ 10000 h Operation	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)   18     Diameter of single wires   0,1 mm     Conductor crosssection (wire)   0,14 mm?     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 (wine)   138 Ω/km @ 20 °C     AC withstand voltage (wire - vire)   2 kV @ 60 s     Power frequency withstand voltage (wire - shield)   2 kV @ 60 s     AC withstand voltage (wire - shield)   40 °C / 90 °C @ 10000 h Operation     Operating temperature (fixed)   80 °C / 90 °C @ 10000 h Operation     Operating temperature max. (dynamic)   -25 °C     Operating temperature min. (dynamic)   -25 °C     Operating temperature min. (dynamic)   80 °C / 90 °C @ 10000 h Operation     UV resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Good, application-related t	Amount wires	12
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)     18       Diameter of single wires     0,1 mm       Conductor rossection (wire)     0,14 mm²       Material conductor wire     Stranded copper wire, bare       Conductor type (wire)     strand class 6       Nornial 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 kV @ 60 s       Ac withstand voltage (wire -     2 kV @ 60 s       Power frequency withstand voltage (wire -     2 kV @ 60 s       Min. operating temperature (statc)     -40 °C       Max. operating temperature (statc)     -40 °C       Querating temperature (statc)     -2 s°C       Operating temperature (statc)     -20 °C @ 10000 h Operation       UV resistance     DIN FN ISO 4892-2 A       Flame resistance     Good, application-related testing       Operating temperature min. (dynamic)     -25 °C       Opion C@ noro C@ noro C@ noro D     DUN FN ISO 4	Outer diameter insulation	1 mm
Ingredient freeness wire insulationlead-free, cadmium-free, CFC-free, halogen-freeAmount strands (wire)18Diameter of single wires0,1 mmConductor crosssection (wire)0,14 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 wire2 AElectrical resistance line constant wire138 Ω/km @ 20 °CAC withstand voltage (wire - igacket)2 kV @ 60 sPower frequency withstand voltage (wire - igacket)2 kV @ 60 sAC withstand voltage (wire - spacket)2 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (static)-40 °COperating temperature (fixed)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN ND C 4892-2 AFlame resistanceUL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, applicati	Outer diameter tolerance core insulation	±5%
Amount strands (wire)18Diameter of single wires0,1 mmConductor crosssection (wire)0,14 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 kV @ 60 sAc withstand voltage (wire - wire)2 kV @ 60 sPower frequency withstand voltage (wire - jacket)2 kV @ 60 sAC withstand voltage (wire - stand table)2 kV @ 60 sAC withstand voltage (wire - stacket)2 kV @ 60 sAC withstand voltage (wire - stacket)2 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature (fixed)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceUL 1581 § 1100 FT2   IEC 60332-2 2   UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application	Shore hardness wire insulation	70 ± 5 Shore D
Diameter of single wires   0,1 mm     Conductor orosssection (wire)   0,14 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 (standard)   to DIN VDE 0298-4     Current load capacity (wire - wire)   2 kV @ 60 s     Power frequency withstand voltage (wire - i acket)   2 kV @ 60 s     Max. operating temperature (static)   -40 °C     Max. operating temperature (static)   -40 °C     Max. operating temperature (iked)   80 °C / 90 °C @ 10000 h Operation     Operating temperature (iked)   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   UL 1581 § 1090     chemical resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Oif resistance   Good, applicat	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Conductor crosssection (wire)   0,14 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   2 A     Electrical resistance line constant wire   138 Q/km @ 20 °C     AC withstand voltage (wire - wire)   2 kV @ 60 s     Power frequency withstand voltage (wire - iacket)   2 kV @ 60 s     AC withstand voltage (wire - shield)   2 kV @ 60 s     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   Good, application-related testing     Gasoline resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Oil resistance   Good, application-related testing     Oil resistance   Good, application-related testing     Oil resistance   Good, application-related t	Amount strands (wire)	18
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     2 A       Electrical resistance line constant wire     138 0/km @ 20 °C       AC withstand voltage (wire - wire)     2 kV @ 60 s       Power frequency withstand voltage (wire - i acket)     2 kV @ 60 s       AC withstand voltage (wire - shield)     2 kV @ 60 s       AC withstand voltage (wire - shield)     2 kV @ 60 s       Min. 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     UL 1581 § 1100 FT2   IEC 60332-2 · 2   UL 1581 § 1090       chemical resistance     Good, application-related testing       Gasoline resistance     Good, application-related testing       Gasoline resistance     Good, application-related testing	Diameter of single wires	0,1 mm
Conductor type (wire)strand class 6Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire2 AElectrical resistance line constant wire138 Ω/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sPower frequency withstand voltage (wire - jacket)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sMax. operating temperature (static)-40 °CMax. operating temperature (static)-40 °COperating temperature (static)-25 °COperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceUL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingDi x Outer diameterEnding radius (fixed)Bending radius (fixed)5 × Outer diameterTravel speed (C-track)5 Mio.No. of torsion cycles2 Mio.Torsion stress± 30 °/m	Conductor crosssection (wire)	0,14 mm <sup>2</sup>
Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire2 AElectrical resistance line constant wire138 Ω/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sPower frequency withstand voltage (wire - jacket)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (static)-40 °COperating temperature (mixed)80 °C / 90 °C @ 10000 h OperationOperating temperature (mixed)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceUL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingDing radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterTravel speed (C-track)5 Min. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 30 °/m	Material conductor wire	Stranded copper wire, bare
Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire2 AElectrical resistance line constant wire138 Ω/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sPower frequency withstand voltage (wire - jacket)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sMin. operating temperature (static)-40 °CMax. 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 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090cheincal resistanceGood, application-related testingGil resistanceGood, application-related testingOil resistanceS Nucle Z °CNo. of torsion cycles2 Mio.Travel speed (C-track) </td <td>Conductor type (wire)</td> <td>strand class 6</td>	Conductor type (wire)	strand class 6
Current load capacity min. wire2 AElectrical resistance line constant wire138 Ω/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sPower frequency withstand voltage (wire - jacket)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sMax. 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 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingDin straceS Noure diameterTravel speed (C-track)5 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 30 °/m	Nominal voltage AC max.	300 V
Electrical resistance line constant wire   138 Ω/km @ 20 °C     AC withstand voltage (wire - wire)   2 kV @ 60 s     Power frequency withstand voltage (wire - jacket)   2 kV @ 60 s     AC withstand voltage (wire - shield)   2 kV @ 60 s     AC withstand voltage (wire - shield)   2 kV @ 60 s     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   God, application-related testing     Gasoline resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Oil resistance   Good, application-related testing   DIN EN 60811-404     Bending radius (fixed)   5 x Outer diameter     Travel speed (C-track)   5 Mio. @ 25 °C     No. of torsion cycles   2 Mio.     Torsion stress   ± 30 °/m	Current load capacity (standard)	to DIN VDE 0298-4
AC withstand voltage (wire - wire)   2 kV @ 60 s     Power frequency withstand voltage (wire - jacket)   2 kV @ 60 s     AC withstand voltage (wire - shield)   2 kV @ 60 s     Min. operating temperature (static)   -40 °C     Max. operating temperature (fixed)   80 °C / 90 °C @ 10000 h Operation     Operating temperature min. (dynamic)   -25 °C     Operating temperature max. (dynamic)   80 °C / 90 °C @ 10000 h Operation     UV resistance   DIN EN ISO 4892-2 A     Flame resistance   UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090     chemical resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Oil resistance   Good, application-related testing     Div related testing   Div X Outer diameter     Bending radius (dynamic)   10 x Outer diameter     Travel speed (C-track)   5 Mio. @ 25 °C     No. of torsion cycles   2 Mio.     Torsion stress   ± 30 °/m <td>Current load capacity min. wire</td> <td>2 A</td>	Current load capacity min. wire	2 A
Power frequency withstand voltage (wire - jacket)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 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 OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceUL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingDi x Outer diameterBending radius (dynamic)10 x Outer diameterTravel speed (C-track)5 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 30 °/m	Electrical resistance line constant wire	138 Ω/km @ 20 °C
jacket)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 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 OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceUL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090chemical resistanceGood, application-related testingOil resistanceGood, application-related testingDin solution (fixed)5 x Outer diameterBending radius (fixed)5 x Outer diameterTravel speed (C-track)5 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 30 °/m	AC withstand voltage (wire - wire)	2 kV @ 60 s
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 OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceUL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingDil resistanceGood, application-related testingDil resistanceGood, application-related testing   DIN EN 60811-404Bending radius (fixed)5 x Outer diameterTravel speed (C-track)5 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 30 °/m		2 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 OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceUL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090chemical 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 diameterTravel speed (C-track)5 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 30 °/m	AC withstand voltage (wire - shield)	2 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 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingDix EN 60811-4045 x Outer diameterBending radius (fixed)5 x Outer diameterTravel speed (C-track)5 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 30 °/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 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingDin splication-related testingDIN EN 60811-404Bending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterTravel speed (C-track)5 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 30 °/m	Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
UV resistanceDIN EN ISO 4892-2 AFlame resistanceUL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090chemical 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 diameterTravel speed (C-track)5 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 30 °/m	Operating temperature min. (dynamic)	-25 °C
Flame resistanceUL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090chemical 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 diameterTravel speed (C-track)5 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 30 °/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 diameterTravel speed (C-track)5 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 30 °/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     Travel speed (C-track)   5 Mio. @ 25 °C     No. of torsion cycles   2 Mio.     Torsion stress   ± 30 °/m	Flame resistance	UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090
Oil resistanceGood, application-related testing   DIN EN 60811-404Bending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterTravel speed (C-track)5 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 30 °/m	chemical resistance	Good, application-related testing
Bending radius (fixed)   5 x Outer diameter     Bending radius (dynamic)   10 x Outer diameter     Travel speed (C-track)   5 Mio. @ 25 °C     No. of torsion cycles   2 Mio.     Torsion stress   ± 30 °/m	Gasoline resistance	Good, application-related testing
Bending radius (dynamic)   10 x Outer diameter     Travel speed (C-track)   5 Mio. @ 25 °C     No. of torsion cycles   2 Mio.     Torsion stress   ± 30 °/m	Oil resistance	Good, application-related testing   DIN EN 60811-404
Travel speed (C-track)5 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 30 °/m	Bending radius (fixed)	5 x Outer diameter
No. of torsion cycles 2 Mio.   Torsion stress ± 30 °/m	Bending radius (dynamic)	10 x Outer diameter
Torsion stress ± 30 °/m	Travel speed (C-track)	5 Mio. @ 25 °C
	No. of torsion cycles	2 Mio.
Torsion speed 35 cycles/min	Torsion stress	± 30 °/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: 2024-05-04

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