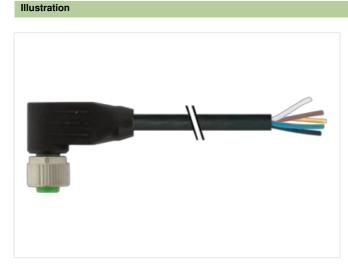


M12 female 90° A-cod. with cable

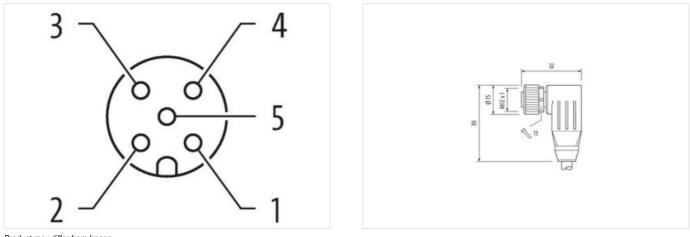
PUR 5x0.75 bk UL/CSA+drag ch. 15m

Female 90° M12, 5-pole 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



	black 1
2 2	black 2
	black 4
3 2	black 3
2 2	gn/ye



Product may differ from Image



Cable length	15 m
Side 1	
Tightening torque	0,6 Nm

The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-04-25

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Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
Coding	A
No. of poles	5
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Side 2	
Stripping length (jacket)	20 mm
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
GTIN	4048879551960
Packaging unit	1
Electrical data Supply	
Operating voltage AC max.	125 V
Operating voltage DC max.	125 V
Current operating per contact max.	4 A
Installation Connection	
Stripping length (jacket)	20 mm
Device protection Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	1,5 kV
Material group (IEC 60664-1)	
Mechanical data Material data	
Coating locking	Nickeled
Material housing	PUR
Locking material	Zinc die-casting
Mechanical data Mounting data	
Mounting method	inserted, screwed, Shaking protection
Environmental characteristics Climatic	
Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
Conformity	
Product standard	DIN EN 61076-2-101 (M12)
Installation Cable	
Cable identification	638
Cable Type	3
Printing color of wire insulation	white (isolation black)
Jacket Color	black
Type of Certificate	cURus
mation in this Product-PDF has been compiled with the	

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Stranding 5 wins around Core Iller Iwisted Filer yes We arrangement biak 1, black 2, black 4, green-yellow No. of bonding cycles (Ctrack) 10 Mio. @ 25 °C Cable weigh 81,4 fm Material jarchet PUR Shore hardness jacket 90 ± 5 Shore A Freedom trom ingredients (jacket) 18.4 fm Order diameter (jacket) 7 mm Torena out of diameter (shorth) 1.5 % Material wire insulation PP Annout wires 5 Outer diameter insulation 1.5 fm Outer diameter insulation 1.5 fm Order diameter insulation 1.6 fm Order diameter insulation 1.6 fm Freedom trom ingredient freereess wire insulation 1.6 fm Printing color of wire insulation 1.6 fm Material conductor wire Store D Printing color of wire insulation 1.6 fm Material conductor wire Store D Carrent was capacity (kindard) 10 fm @ 25 °C hortonal Carrent was capacity (kindard) 10 fm @ 25 °C hortonal <th>Amount stranding</th> <th>1</th>	Amount stranding	1
Wire arrangement Dack 1, black 2, black 3, black 4, green-yellow No. of bedring cycles (C-track) 10 MG. @ 25 °C Cable weigh 81 4 4 g/m Material jacket PUR Stroer hardness jacket 90 1.5 Shore A Freedom from ingredients (gicket) 7 mm Tolerance outer diameter (sheath) 1.5 % Material via ingredients (gicket) 7 mm Tolerance outer diameter (sheath) 1.5 % Material wire insulation PP Amount wires 5 Outer diameter insulation 1.85 mm Outer diameter insulation 1.85 mm Ingredient freeness wire insulation 1.85 fmm Outer diameter insulation 1.85 mm Ingredient freeness wire insulation 1.84 fmm Ingredient freeness wire insulation 1.84 fmm Conductor crossection (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 edace Current load capacity (strandard) <td>Stranding</td> <td>5 wires around Core filler twisted</td>	Stranding	5 wires around Core filler twisted
No. of bending cycles (C-track) 10 Mo. @ 25 °C Cable weight 81.4 g/m Material Jacket FUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 7 mm Tolerance outer diameter (sheath) ± 5 % Material axie insulation PP Amount wices 5 Outer diameter insulation 1.85 mm Outer diameter insulation 1.0 15 Shore D Ingredient freeness wire insulation 1.0 15 Shore D Ingredient freeness wire insulation 1.0 15 Shore D Ingredient freeness wire insulation wire is (solation black) Amount wires 0.15 mm Conductor or single wires 0.15 mm Conductor vires (Vire) 0.75 mm² Conductor vires (C-free), halogen-free, silicone-free Printing color of wire insulation 0.15 mm Conductor vires (wire) 0.75 mm² Conductor vires (wire) 0.75 mm² Conductor vires (Vire) 0.82 Kh @ 20 °C Conductor vire </td <td>Filler</td> <td>yes</td>	Filler	yes
Cable weigh 81.4 g/m Material jacket PUR Shore hardness glaket 92.5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 7 mm Tolerance outer diameter (lacket) 7 s % Material wire insulation PP Amount wires 5 Outer diameter tolerance core insulation 1.85 mm Outer diameter tolerance core insulation 1.5 % Shore hardness wire insulation 70.4 5 Shore D Impredient freeness wire insulation white (isolation black) Amount strands (wire) 42 Diameter of singe wires 0.15 mm Conductor crossesection (wire) 0.75 mm ³ Conductor wire Stranded copper wire, bare Conductor vice (wire) stranded class 6 Traversing distance (C-track) 10 m @ 25 °C horizontal Current cod capacity min. wire 8.4 A Electrical resistance line constant wire 2.6 D/m @ 20 °C Nominal voltage power (wire wire) 2.5 KV @ 60 s Min. operating temperature (stakic)	wire arrangement	black 1, black 2, black 3, black 4, green-yellow
Material jacket PUR Shore hardness jackat 90 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer diameter (jacket) 7 mm Tolerance outer diameter (jacket) 7 from Tolerance outer diameter (jacket) # 5 % Material wire insulation # 5 % Outer diameter insulation 1.85 mm Outer diameter insulation 7.0 ± 5 Shore D Shore hardness wire insulation 1.85 mm Outer diameter insulation 1.85 mm Nounst strands (wire) 42 Diameter tolerance core insulation ket/ree, 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 rossection (wire) 0.75 mm ² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C track) 10 m @ 25 °C horizontal Current load capacity (strander) 10 DIV VDE C298.4	No. of bending cycles (C-track)	10 Mio. @ 25 °C
Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) lead-tree, cadmum-tree, CFC-tree, halogen-tree, silicone-tree Outer diameter (jacket) 7 m Tolerance outer diameter (sheath) ± 5 %. Matorial wire insulation PP Amount wires 5 Outer diameter (sheath) 1.85 mm Outer diameter loterance core insulation 1.85 mm Outer diameter loterance core insulation 1.85 mm Forebandmess wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation while (solation black) Amount strads (wire) 42 Dameter of single wires 0.15 mm Conductor rossection (wire) 0.75 mm ² Conductor roy (wire) strand class 6 Traversing diatance (C-track) 10 m @ 25 °C horizontal Current load capacity min. wire 8.4 A Electrical resistance line constant wire 26 Jkm @ 20 °C Nominal voltage power AC max. 300 V Power facterstare, min. (wine) 2.5 kV @ 60 s Min. operating temperature (static) 40 °C Max. oparating temperature (Cable weigth	81,4 g/m
Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 7 mm Tolerance outer diameter (sheath) 5 % Material wire insulation PP Amount wires 5 Outer diameter lolarance core insulation 1.85 mm Outer diameter bierance 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 wires (Chrack) 10 m @ 25 °C [horizontal Conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (Chrack) 10 m @ 25 °C [horizontal Current load capacity (standard) to DIN VDE 0298-4 Current load	Material jacket	PUR
Outer-diameter (jacket) 7 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 5 Outer diameter rolerance core insulation ± 5 % Shore hardness wire insulation ± 5 % Shore hardness wire insulation ± 5 % Shore hardness wire insulation text shore hardness wire insulation Ingredient freeness wire insulation text shore hardness wire insulation Material glow wires 0.15 mm Conductor crossection (wire) 0.75 mm² Conductor type (wire) stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C horizontal Current load capacity (standard) to DIN VIDE C298-4 Current load capacity (standard) to DIN VIDE C298-4 Current load capacity (standard) to DIN VIDE C298-4 Constructor wire (static) 10 m @ 25 °C horizontal Constructor wire (static) 20 V°C Nominal voltage power AC max. 300 V Power frequency withshand voltage power 25 KV @ 60 s	Shore hardness jacket	90 ± 5 Shore A
Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 5 Outer diameter insulation 1.85 mm Outer diameter lolerance core insulation ± 5 % Shore hardness wire insulation 70 ± 5 Shore D Impredient Freeness wire insulation Wate failer (social mism-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 Conductor vire of single wires Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C horizontal Current load capacity (standard) to DIN VDE 0296-4 Current l	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Material wire insulationPPAmount wires5Outer diameter insulation1,85 mmOuter diameter insulation15 %Shore hardness wire insulation70 ± 5 Shore DIngredient freeness wire insulation70 ± 5 Shore DIngredient freeness wire insulationwhite (solation black)Amount strands (wire)42Diameter of single wires0.15 mmConductor crossection (wire)0.75 mm²Material conductor wireStranded copper wire, bareConductor type (wire)stranded copper wire, bareConductor wireStranded copper wire, bareCurrent load capacity min. wire8.4 AElectrical resistance line constant wire26 Ω km @ 20 °CNominal voltage power (Wire wire)2.5 kV @ 60 sAC withstand voltage power2.5 kV @ 60 sMin. operating temperature min. (dynamic)-25 °COperating temperature min. (dynamic)-25 °COperating temperature min. (dynamic)<	Outer-diameter (jacket)	7 mm
Amount wires 5 Outer diameter insulation 1.85 mm Outer diameter tolerance core insulation 1.5 % Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation white (isolation black) Amount strands (wire) 42 Diameter of single wires 0.15 mm Conductor crosssection (wire) 0.75 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m Q 25 °C horizontal Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (wint, wire) 2,5 KV @ 60 s Moninal voltage power (wire - wire) 2,5 KV @ 60 s Moninal voltage power (wire - wire) 2,5 KV @ 60	Tolerance outer diameter (sheath)	±5%
Outer diameter insulation 1.85 mm Outer diameter tolerance core insulation ± 5 %. Shore hardness wire insulation 70 ± 5 Shore D Ingredient Thereness 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 crossesterion (wire) 0.75 mm ² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C horizontal Current load capacity (strandard) to DIN VDE 0298-4 Current load capacity with stand voltage power (Strandard) to DIN VDE 0298-4 Current load capacity with stand voltage power (Wire - wire) 2.5 kV @ 60 s Min. operating temperature (statc) -40 °C Max. operating temperature (stat	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 Printing color of wire insulation white (isolation black) Amount strands (wire) 42 Diameter of single wires 0.15 mm Conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C horizontal Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min, wire 8,4 A Electrical resistance line constant wire 26 O/km @ 20 °C Nominal voltage power AC max. 300 V Power frequency withstand voltage power 2,5 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Operating temperature (mixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature (static) -40 °C Max. operating temperature (statiz) -40 °C Mo	Amount wires	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 crosssection (wire) 0,75 mm ² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C horizontal 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 (withstand voltage power & 2.5 kV @ 60 s Ac Withstand voltage power 2.5 kV @ 60 s Ac Withstand voltage power (wire - wire) 2.5 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Quertal temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 25 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A	Outer diameter insulation	1,85 mm
Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Printing color of wire insulation white (isolation black) Amount strands (wire) 42 Diameter of single wires 0,15 mm Conductor crossesction (wire) 0,75 mm ² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C horizontal Current load capacity (standard) to DIN VDE 0298-4 Current load capacity mix/wire 8,4 A Electrical resistance line constant wire 26 Ω/km @ 20 °C Nominal voltage power AC max. 300 V Power frequency withstand voltage power 2,5 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (dynamic) -25 °C Operating temperature fixed 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Fiame resistance UL 158 § 10100 PT2 IEC 60332-2·2 Chernical resistance Good, application-related testing	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 Traversing distance (C-track) 10 m @ 25 °C horizontal Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 8.4 A Electrical resistance line constant wire 26 Ω/km @ 20 °C Nominal voltage power AC max. 300 V Power frequency withstand voltage power (wire - wire) 2.5 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Operating temperature (static) -40 °C Vir esistance DIN EN ISO 4892-2 A Flame resistance DIN EN ISO 4892-2 A Flame resistance UL 1581 § 1100 LT 1581 § 1100 LT 251 EC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance DIN EN 1501 -404 [Good, application-related testing <t< td=""><td>Shore hardness wire insulation</td><td>70 ± 5 Shore D</td></t<>	Shore hardness wire insulation	70 ± 5 Shore D
Amount strands (wire) 42 Diameter of single wires 0,15 mm Conductor crosssection (wire) 0,75 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C horizontal Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 8.4 A Electrical resistance line constant wire 26 0/km @ 20 °C Nominal voltage power AC max. 300 V Power frequency withstand voltage power (wire - wire) 2.5 kV @ 60 s Min. operating temperature (state) 40 °C Max. operating temperature (state) 80 °C / 90 °C @ 10000 h Operation Operating temperature (state) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Flame resistance UL 1581 § 1100 FT2 EC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance DIN EN ISO 4492-2 A Flame resistance DIN EN 180 41104 (Good, application-related testing Gasoline resistance DIN EN 8081-1404 Good, application-related testing Gasoline resistance DIN EN 8081-1404 Good, application-related testing Gasoline resistance DIN EN 8081-1404 Good, application-related testing	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 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C horizontal Current Load capacity (standard) to DIN VDE 0298-4 Current Load capacity (standard) to DIN VDE 0298-4 Electrical resistance line constant wire 26 Ω/km @ 20 °C Nominal voltage power AC max. 300 V Power frequency withstand voltage power (wire - jacket) 2,5 kV @ 60 s AC withstand voltage power (wire - wire) 2,5 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Our resistance DIN ISO 4892-2 A Flame resistance DIN ISO 4892-2 A Flame resistance Good, application-related testing Gasoline resistance Good, application-related testing Gasoline resistance DIN EN 160811-404 Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 × Outer diame	Printing color of wire insulation	white (isolation black)
Conductor crosssection (wire) 0,75 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C horizontal Current Load capacity (standard) to DIN VDE 0298-4 Current Load capacity min. wire 8,4 A Electrical resistance line constant wire 26 Ω/km @ 20 °C Nominal voltage power AC max. 300 V Power frequency withstand voltage power (wire - wire) 2,5 kV @ 60 s AC withstand voltage power (wire - wire) 2,5 kV @ 60 s 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. 300 V Persence DIN EN ISO 4892-2 A Flame resistance Good, application-related testing Gasoline resistance Good, application-related testing Gil resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter	Amount strands (wire)	42
Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C horizontal Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 8,4 A Electrical resistance line constant wire 26 Ω/km @ 20 °C Nominal voltage power AC max. 300 V Power frequency withstand voltage power (wire - jacket) 2,5 kV @ 60 s AC withstand voltage power (wire - wire) 2,5 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Operating temperature min. (dynamic) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (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 Gil resistance DIN EN 60811-404 Good, application-related testing Gil resistance DIN EN 60811-404 Good, application-related testing	Diameter of single wires	0,15 mm
Conductor type (wire)strand class 6Traversing distance (C-track)10 m @ 25 °C horizontalCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire8,4 AElectrical resistance line constant wire26 Ω/km @ 20 °CNomial voltage power AC max.300 VPower frequency withstand voltage power2,5 kV @ 60 sAC withstand voltage power (wire - wire)2,5 kV @ 60 sAC withstand voltage power (wire - wire)2,5 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 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN RO 811-404 Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (fixed)5 x Outer diameterNo. of torsion cycles2 Mio.Torsion speed35 cycles/min	Conductor crosssection (wire)	0,75 mm²
Traversing distance (C-track)10 m @ 25 °C horizontalCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire8,4 AElectrical resistance line constant wire26 Ω/km @ 20 °CNominal voltage power AC max.300 VPower frequency withstand voltage power (wire - jacket)2,5 kV @ 60 sAC withstand voltage power (wire - wire)2,5 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (static)40 °CMax. operating temperature (ifxed)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 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceDIN EN Kool 41-404 Good, application-related testingOil resistanceDIN EN Kool 41-404 Good, application-related testingOil resistanceDIN EN Kool 41-404 Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (fixed)5 x Outer diameterNo. of torsion cycles2 Mio.Torsion speed35 cycles/min	Material conductor wire	Stranded copper wire, bare
Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 8,4 A Electrical resistance line constant wire 26 Ω/km @ 20 °C Nominal voltage power AC max. 300 V Power frequency withstand voltage power 2,5 kV @ 60 s AC withstand voltage power (wire - wire) 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 DIN EN 16O 4811-404 Good, application-related testing Oil resistance DIN EN 60811-404 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 No. of torsion cycles 2 Mio. Torsion speed 35 cycles/min	Conductor type (wire)	strand class 6
Current load capacity min. wire8,4 AElectrical resistance line constant wire26 Ω/km @ 20 °CNominal voltage power AC max.300 VPower frequency withstand voltage power (wire - jacket)2,5 kV @ 60 sAC withstand voltage power (wire - wire)2,5 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 § 1000 UL 1581 § 1100 FT2 IEC 60332-2-2chemical 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 torsion cycles2 Mio.Torsion speed35 cycles/min	Traversing distance (C-track)	10 m @ 25 °C horizontal
Electrical resistance line constant wire 26 Ω/km @ 20 °C Nominal voltage power AC max. 300 V Power frequency withstand voltage power (wire - jacket) 2,5 kV @ 60 s AC withstand voltage power (wire - wire) 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 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 torsion cycles 2 Mio. Torsion speed 35 cycles/min	Current load capacity (standard)	to DIN VDE 0298-4
Nominal voltage power AC max.300 VPower frequency withstand voltage power (wire - jacket)2,5 kV @ 60 sAC withstand voltage power (wire - wire)2,5 kV @ 60 sAC withstand voltage power (wire - wire)2,5 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 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2chemical 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 (dynamic)10 x Outer diameterNo. of torsion cycles2 Mio.Torsion speed35 cycles/min	Current load capacity min. wire	8,4 A
Power frequency withstand voltage power (wire - jacket)2,5 kV @ 60 sAC withstand voltage power (wire - wire)2,5 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 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceDIN EN 60811-404 Good, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingOil resistanceIDIN EN 60811-404 Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of torsion cycles2 Mio.Torsion speed35 cycles/min	Electrical resistance line constant wire	26 Ω/km @ 20 °C
(wire - jacket)2,5 kV @ 60 sAC withstand voltage power (wire - wire)2,5 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 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2chemical 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 (dynamic)10 x Outer diameterNo. of torsion cycles2 Mio.Torsion speed35 cycles/min	Nominal voltage power AC max.	300 V
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 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceOIN EN 60811-404 Good, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of torsion cycles2 Mio.Torsion speed35 cycles/min		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 OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceUL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2chemical 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 (dynamic)10 x Outer diameterNo. of torsion cycles2 Mio.Torsion speed35 cycles/min	AC withstand voltage power (wire - wire)	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 resistanceDIN EN 60811-404 Good, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of torsion cycles2 Mio.Torsion speed35 cycles/min	Min. operating temperature (static)	-40 °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 DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of torsion cycles 2 Mio. Torsion speed 35 cycles/min	Max. operating temperature (fixed)	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 resistanceDIN EN 60811-404 Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of torsion cycles2 Mio.Torsion speed35 cycles/min	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 resistanceDIN EN 60811-404 Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of torsion cycles2 Mio.Torsion speed35 cycles/min	Operating temperature max. (dynamic)	80 °C / 90 °C @ 10000 h Operation
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 torsion cycles2 Mio.Torsion speed35 cycles/min	UV resistance	DIN EN ISO 4892-2 A
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 torsion cycles 2 Mio. Torsion speed 35 cycles/min	Flame resistance	UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2
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 torsion cycles 2 Mio. Torsion speed 35 cycles/min	chemical resistance	Good, application-related testing
Bending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of torsion cycles2 Mio.Torsion speed35 cycles/min	Gasoline resistance	Good, application-related testing
Bending radius (dynamic) 10 x Outer diameter No. of torsion cycles 2 Mio. Torsion speed 35 cycles/min	Oil resistance	DIN EN 60811-404 Good, application-related testing
No. of torsion cycles 2 Mio. Torsion speed 35 cycles/min	Bending radius (fixed)	5 x Outer diameter
Torsion speed 35 cycles/min	Bending radius (dynamic)	10 x Outer diameter
	No. of torsion cycles	2 Mio.
Torsion stress ± 180 °/m	Torsion speed	35 cycles/min
	Torsion stress	± 180 °/m

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: 2024-04-25

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