

M12 female 90° A-cod. with cable

PUR 12x0.25 gy UL/CSA+robot+drag ch. 1m

Female 90°

M12, 12-pole

Art-No. 7005 - M12 Lite - (plastic hexagonal screw) on request

with cable sleeves

Plastic housings with good resistance against chemicals and oils.

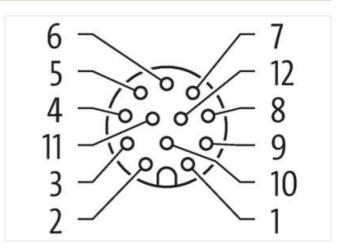
The resistance to aggressive media should be individually tested for your application. Further details on request.

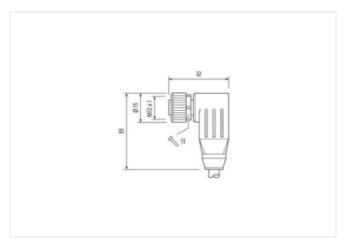
Further cable lengths on request.

Link to Product

Illustration







Product may differ from Image











Cable length

1 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: 2024-05-19



stay connected

Mounting method	inserted, screwed
Family construction form	M12
Coding	A
Material	PUR
No. of poles	12
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Commercial data	
ECLASS-6.0	27279218
ECLASS-6.1	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	4048879463058
Packaging unit	1
Electrical data Supply	
Operating voltage AC max.	30 V
Operating voltage DC max.	30 V
Operating voltage AC (UL-listed)	30 V
Operating voltage DC (UL-listed)	30 V
Current operating per contact max.	1,5 A
Installation Connection	
Mounting set	M12 x 1
Device protection Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	0,8 kV
Material group (IEC 60664-1)	1
Mechanical data Material data	
Coating locking	safe-cover coated
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.	-25 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
Important installation notes	
•	Destruction of the control of the co
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	



stay connected

Cable Type 1 Jacket Cloir gray Amount stranding 1 Stranding 3 wires wested Amount stranding (type 2) Wires arrangement gray pink, volet, red-blue, brown, red, gray, black, yellow, pink; green, white, blue Cable weigh 71,5 grin Material skeet Share hardness jacket Sb 1 3 Shore D Freedom from ingredents (Jacket) Louder-diameter (jacket) Bed free, cadmium-free, CPC-free, halogen-free, silicone-free Outer-diameter (jacket) Louder-diameter (jacket) Jacket Grameter insulation PP Amount wires 12 Cuter diameter (jacket) Jacket Grameter insulation 1,25 mm Jacket Grameter insulation Jacket Grameter Insulat	wire arrangement	gray-pink, violet, red-blue, brown, red, gray, black, yellow, pink, green, white, blue
Jackset Coder gray	Cable identification	302
Type of Certificate Amount stranding 1 3 wires twisted Amount stranding (type 2) 1 5 wires around Stranding combination twisted Amount stranding (type 2) 1 5 wires around Stranding Combination twisted gray pink, violat, red blue, brown, red, gray, black, yellow, pink, green, white, blue Cable weigh 71.5 grm Makerial jacket PUR 5 8 ± 3 Shore D Freedom from ingredients (jacket) 15 9 mm Colure-diameter insulation 12.5 mm Colure-diameter insulation 14 ± 3 Shore D Ingredient freeness wire insulation 16 4 ± 3 Shore D Ingredient freeness wire insulation 17 4 ± 3 Shore D Ingredient freeness wire insulation 18 0 free, cadmium free, CFC free, halogen-free, silicone-free Amount strandis (wire) 32 Diameter of single wires Conductor wire 5 Stranded copper wire, bare Conductor wire 5 Stranded copper wire, bare Conductor type (wire) 10 0 JS mm² Material conductor wire 5 Stranded copper wire, bare Conductor type (wire) 10 DIN VDE 0288-4 Current load capacity (standardr) 10 DIN VDE 0288-4 Current load capacity (stand	Cable Type	1
Amount stranding 1 Stranding 3 awires twisted 3 Amount stranding (type 2) 1 Standing (type 2) 9 swires around Stranding combination twisted 4 write arrangement gray-pink, tolet, red-blue, brown, red, gray, black, yellow, pink, green, while, blue 7.1,5 g/m 4 Malerial jacket PUR Shore hardness jacket PUR Shore hardness jacket PUR Shore hardness jacket 15,8 a 5 Shore D Freedom from ingredients (jacket) 16,8 mm Coller-diameter (jacket) 5,8 mm Coller-diameter (jacket) 12,5 mm Coller-diameter (jacket) 12,5 mm Coller-diameter insulation PP Amount wirein sulation PP Amount wirein sulation 12,25 mm Coller diameter insulation 14,25 mm Coller diameter insulation 174 1 5 Shore D Ingredient (reoness wire insulation 174 1 5 Shore D Ingredient (reoness wire insulation 184 Shore D Ingredient (reoness wire insulation 187 Shore D Ingredient (jacket) 187 Shore D Ingred	Jacket Color	gray
Stranding (ype 2) 9 wires around Stranding (ype 2) 9 wires around Stranding (pope 2) 9 wires around Stranding (pope 2) 9 wires around Stranding combination twisted wire arrangement 71,5 g/m Material placket PUR Store hardness jacket 58 ± 3 Shore D Foedom from ingredients (jacket) 15 mm Folderance outer diameter (sheath) 15 % Material wire individualition PP Amount wires 12 Culter diameter five floatene or insulation 12 Smm Culter diameter five floatene or insulation 14 ± 3 Shore D Shore hardness were insulation 74 ± 3 Shore D Shore hardness were insulation 74 ± 3 Shore D Shore hardness were insulation 74 ± 3 Shore D Shore hardness were insulation 74 ± 3 Shore D Shore hardness were insulation 74 ± 3 Shore D Shore hardness were insulation 75 ± 5 % Shore hardness were insulation 76 ± 25 Fmm Conductor crosssection (wire) 25 mm Conductor crosssection (wire) 30 Uniter diameter folder on wire insulation 30 V Schome Conductor vipe (wire) C	Type of Certificate	cURus
Amount stranding (type 2) 9 wires around Stranding combination twisted wire arrangement gray-pink, violer, red-blue, brown, red, gray, black, yellow, pink, green, white, blue Cable weight 71,5 gm Material jacket PUR Shore hardness jacket 85 2 Shore D Froedom from ingredients (jacket) 166 2 Shore D Froedom from ingredients (jacket) 168 2 Shore D Froedom from ingredients (jacket) 168 2 Shore D Froedom from ingredients (jacket) 169 2 Shore D Froedom from ingredients (jacket) 169 2 Shore D Froedom from ingredients (jacket) 169 2 Shore D Froedom from ingredients (jacket) 170 2 Shore D Froedom from ingredients (jacket) 170 2 Shore D Froedom from ingredients (jacket) 170 2 Shore D Froedom from ingredient insulation 12.5 mm Froedom from ingredient insulation 150 2 Shore D Froedom from ingredient insulation 150 2 Shore D Froedom from insulation 150 2 Shore D Froedom froedom from insulation 150 2 Shore D Froedom froedom from froedom from insulation 150 2 Shore D Froedom froedom from froedom froe	Amount stranding	1
Stranding (type 2) 9 wires around Stranding combination twisted wire arrangement gray-pink, violet, red-blue, brown, red, gray, black, yellow, pink, green, white, blue Cable weight 71,5 g/m Material jacket PUR Shore hardness jacket 58 ± 3 Shore D Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer diameter (jacket) 6,9 mm Tolerance outer diameter (shealth) 45 % Material wire insulation PP Amount wires 12 Outer diameter insulation 1,25 mm Outer diameter of single wires 0,1 mm Gradient freeness wire insulation 1,25 mm Outer diameter of single wires 0,1 mm Conductor crosssection (wire) 32 Diameter of single wires 0,1 mm Conductor prossection (wire) 0,25 mm² Material conductor wire Stranded copper wire, barre Conductor type (wire) strand class 6 Conductor type (wire) strand class 6 Conductor type (wire) strand class 6 Courtent load capacity (slandard) to DIN VDE 0298-4 Current load capacity (slandard) to DIN VDE 0298-4 Current load capacity (slandard) to DIN VDE 0298-4 Current load capacity withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - wire) 80 °C /90 °C @ 10000 h Operation Operating temperature max. (dynamic) - 25 °C Operating temperature max. (dynamic) - 25 °C Gesoline resistance Good, application-related testing Gasonier resistance (Good, application-related testing Gasonier resistance (Good, application-related testing Gasonier resistance (Good, application-related testing Gasonier resistance (C-track) 5 m @ 25 °C Noter diameter No. of torsion cysles 1 Mo. of torsion cysles 1 Mo. of torsion cysles 1	Stranding	3 wires twisted
wire arrangement gray-pink, violet, red-blue, brown, red, gray, black, yellow, pink, green, white, blue Cable weight 71,5 g/m Malariarial jacket PUR Shore hardness jacket 58 ± 3 Shore D Freedom from lingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer diameter (jacket) ± 5 % Malariarial wire insulation PP And mount wires 12 Outer diameter (orleance) 1,25 mm Outer diameter (orleance) 1,25 mm Outer diameter (viers) 32 Discrete hardness wire insulation 1,4 3 Shore D Ingredient freeness wire insulation 74 ± 3 Shore D Ingredient freeness wire insulation 74 ± 3 Shore D Ingredient freeness wire insulation 1,1 mm Conductor or (wire) 32 Diameter of single wires 0,1 mm Conductor or (wire) 0,25 mm² Malarial conductor wire Stranded copper wire, bare Conductor (wire) 30 N Conductor by Civicy stranded copper wire, bare Conductor (wire) 3,2 mm² <td>Amount stranding (type 2)</td> <td>1</td>	Amount stranding (type 2)	1
Cable weight 71.5 g/m Material picket PUR Shore hardness jacket 58 ± 3 Shore D Freadom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 6,9 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 12 Outer diameter insulation 1,25 mm Outer diameter insulation 1,25 mm Outer diameter insulation 1,25 mm Outer diameter insulation 1,2 mm Shore hardness wire insulation 74 ± 3 Shore D Ingredient freeness wire insulation 1,3 mm Amount strands (wire) 32 Diameter of single wires 0,1 mm Conductor type (wire) 9,25 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Material conductor wire Stranded copper wire, bare Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load	Stranding (type 2)	9 wires around Stranding combination twisted
Material jacket PUR Shore hardness jacket 55 ± 3 Shore D Freedom from largedients (jacket) 6.9 mm Tolerance outer diameter (jacket) 6.9 mm Tolerance outer diameter (health) ± 5 % Material wire insulation PP Amount wires 12 Outer diameter insulation 1,25 mm Outer diameter insulation 1,25 mm Outer diameter or insulation 1,25 mm Outer diameter insulation 74 ± 3 Shore D Ingredient freeness wire insulation 1,25 mm Ingredient freeness wire insulation 1,25 mm Ingredient freeness wire insulation 74 ± 3 Shore D Ingredient freeness wire insulation 1,25 mm Conductor presses wire insulation 1,25 mm Ondriver of presses wire insulation 1,25 mm Conductor	wire arrangement	gray-pink, violet, red-blue, brown, red, gray, black, yellow, pink, green, white, blue
Shore hardness jacket S8 ± 3 Shore D	Cable weigth	71,5 g/m
lead-free, cadmium-free, CFC-free, halogen-free, silicone-free	Material jacket	PUR
Outer-diameter (jacket) 6,9 mm Tolerance outer diameter (shealth) ± 5 % Material wire insulation PP Amount wires 12 Outer diameter insulation ± 5 % Shore hardness wire insulation ± 5 % Shore hardness wire insulation 74 ± 3 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 32 Diameter of single wires 0,1 mm Conductor rosssection (wire) 0,25 mm² Material conductor vive 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 3 A Electrical resistance line constant wire 79 C/km @ 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 (fixed) 80 °C / 90 °C @ 100000 h Operation	Shore hardness jacket	58 ± 3 Shore D
Tolerance outer diameter (sheath)	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Tolerance outer diameter (sheath)	Outer-diameter (jacket)	6,9 mm
Amount wires 12 Outer diameter insulation 1,25 mm Outer diameter insulation ± 5 % Shore hardness wire insulation 74 ± 3 Shore D Ingredient treeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 32 Diameter of single wires 0,1 mm Conductor crosssection (wire) 0,25 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 3 A Electrical resistance line constant wire 79 0/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - wire) 2,5 kV @ 60 s Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 1EC 60332-22 UL 1581 § 1100 FT2 UL 1581 § 1090 Chemical resistance Good, application-related testing Oil resistan	Tolerance outer diameter (sheath)	±5%
Outer diameter insulation 1,25 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 74 ± 3 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 32 Diameter of single wires 0,1 mm Conductor crosssection (wire) 0,25 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) 2,5 kV @ 60 s 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 (min. (dynamic) -25 °C	Material wire insulation	PP
Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 74 ± 3 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 32 Diameter of single wires 0,1 mm Conductor crosssection (wire) 0,25 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 3 A Electrical resistance line constant wire 79 Ω/km @ 20 °C AC withstand voltage (wire - vivie) 2,5 kV @ 60 s Power frequency withstand voltage (wire - acket) 2,5 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (static) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (dynamic) 25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Flame resistance IEC 60332-2-2 Jul 1581 § 1100 FT2 UL 1581 § 1090 chemical resistance Good, application-	Amount wires	12
Shore hardness wire insulation 74 ± 3 Shore D	Outer diameter insulation	1,25 mm
Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 32 Diameter of single wires 0,1 mm Conductor crosssection (wire) 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 3 A Electrical resistance line constant wire 79 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - aiceket) Min. operating temperature (static) 40 °C Max. operating temperature (fixed) Operating temperature min. (dynamic) 25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Flame resistance IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (fixed) 5 x Outer diameter Bending radius (fixed) 5 x Outer diameter No. of bending cycles (C-track) 5 mio @ 25 °C Traversing distance (C-track) 3 mis @ 25 °C No. of torsion cycles 1 Mio. Torsion stress 2 t 80 °C/m	Outer diameter tolerance core insulation	±5%
Amount strands (wire) 32 Diameter of single wires 0,1 mm Conductor crosssection (wire) 0,25 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 3 A Electrical resistance line constant wire 79 Ω/km @ 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 (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 Chemical resistance IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Bending radius (dynamic) 5 m @ 25 °C Traversing distance (C-track) 5 m @ 25 °C horizontal Travel speed (C-track) 5 m @ 25 °C horizontal Travel speed (C-track) 5 m @ 25 °C horizontal Travel speed (C-track) 5 m @ 25 °C horizontal Travel speed (C-track) 5 m @ 25 °C horizontal Travel speed (C-track) 5 m @ 5 °C horizontal Travel speed (C-track) 5 m @ 5 °C horizontal Travel speed (C-track) 5 m @ 5 °C horizontal Travel speed (C-track) 5 m @ 5 °C horizontal Travel speed (C-track) 5 m @ 5 °C horizontal Travel speed (C-track) 5 m @ 5 °C horizontal Travel speed (C-track) 5 m @ 5 °C horizontal Travel speed (C-track) 5 m @ 5 °C horizontal Travel speed (C-track) 5 m @ 5 °C horizontal Travel speed (C-track) 5 m @ 5 °C horizontal Travel speed (C-track) 5 m @ 5 °C horizontal Travel speed (C-track) 5 m @ 5 °C horizontal Travel speed (C-track) 5 m @ 5 °C horizontal Travel speed (C-track) 5 m @ 5 °C horizontal Travel speed (C-track	Shore hardness wire insulation	74 ± 3 Shore D
Diameter of single wires 0.1 mm	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Conductor crosssection (wire) 0,25 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 3 A Electrical resistance line constant wire 79 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - gacket) 2,5 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Flame resistance IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline 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) 5 m@ 25 °C horizontal Traversing distance (C-track)	Amount strands (wire)	32
Material conductor wire Conductor type (wire) stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max. 300 V Current load capacity (standard) Current load capacity (standard) Current load capacity min. wire 3 A Electrical resistance line constant wire 79 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - acket) Min. operating temperature (static) 40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) 25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Flame resistance IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090 chemical 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 No. of bending cycles (C-track) 5 mio. @ 25 °C Traversing distance (C-track) 5 mio. @ 25 °C No. of torsion cycles 1 Mio. Torsion stress ± 180 °/m	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 3 A Electrical resistance line constant wire 79 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - iacket) -40 °C Min. operating temperature (static) -40 °C Min. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Flame resistance IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090 chemical 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 Bending radius (dynamic) 10 x Outer diameter Bending radius (dynamic) 5 Mio. @ 25 °C Traver sing distance (C-track) 5 m @ 25 °C horizontal Traver sing distance (C-track)	Conductor crosssection (wire)	0,25 mm ²
Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 3 A Electrical resistance line constant wire 79 £0/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 (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Flame resistance IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Gasoline resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter No. of bending cycles (C-track) 5 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C horizontal Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 1 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 3 A Electrical resistance line constant wire 79 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - iacket) 2,5 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Flame resistance IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090 chemical 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 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 5 Mio. @ 25 °C Traversing distance (C-track) 5 Mio. @ 25 °C Traversing distance (C-track) 3,3 m/s @ 25 °C No. of torsion cycl	Conductor type (wire)	strand class 6
Current load capacity min. wire 3 A Electrical resistance line constant wire 79 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2.5 kV @ 60 s Power frequency withstand voltage (wire - iacket) 2.5 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 Flame resistance IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090 chemical 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 × Outer diameter Bending radius (fixed) 5 × Outer diameter Bending radius (dynamic) 10 × Outer diameter No. of bending cycles (C-track) 5 m @ 25 °C horizontal Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 1 Mio. Torsion stress ± ±180 °/m	Nominal voltage AC max.	300 V
Electrical resistance line constant wire 79 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - iacket) 40 °C Max. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Flame resistance IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090 chemical 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 Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 5 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C horizontal Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 1 Mio. Torsion stress ± ±180 °/m	Current load capacity (standard)	to DIN VDE 0298-4
AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - jacket) Min. operating temperature (static) 40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Flame resistance IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090 chemical 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 No. of bending cycles (C-track) 5 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C horizontal Travel speed (C-track) 7 min. 3,3 m/s @ 25 °C No. of torsion cycles ± 180 °/m	Current load capacity min. wire	3 A
Power frequency withstand voltage (wire - jacket) Min. operating temperature (static) Max. operating temperature (fixed) More operating temperature (fixed) More operating temperature min. (dynamic) Operating temperature min. (dynamic) Operating temperature max. (dynamic) More of temperature max. (dynamic) Flame resistance IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090 Chemical 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 Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 5 m@ 25 °C Traversing distance (C-track) 5 m@ 25 °C No. of torsion cycles 1 Mio. Torsion stress ± 180 °/m	Electrical resistance line constant wire	79 Ω/km @ 20 °C
All of C Max. operating temperature (static) Max. operating temperature (fixed) Max. operating temperature min. (dynamic) Operating temperature min. (dynamic) Operating temperature max. (dynamic) Plame resistance IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090 Chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) S x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 5 m @ 25 °C Traversing distance (C-track) 5 m @ 25 °C Traversing distance (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 1 Mio. Torsion stress ± 180 °/m	AC withstand voltage (wire - wire)	2,5 kV @ 60 s
Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Flame resistance IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090 chemical 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 Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 5 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C horizontal Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 1 Mio. Torsion stress ± 180 °/m	Power frequency withstand voltage (wire - jacket)	2,5 kV @ 60 s
Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Flame resistance IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090 chemical 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 Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 5 m @ 25 °C Traversing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 1 Mio. Torsion stress ± 180 °/m	Min. operating temperature (static)	-40 °C
Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Flame resistance IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090 chemical 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 Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 5 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C horizontal Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 1 Mio. Torsion stress ± 180 °/m	Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
Flame resistance IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090 chemical 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 Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 5 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C horizontal Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 1 Mio. Torsion stress ± 180 °/m	Operating temperature min. (dynamic)	-25 °C
chemical 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 Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 5 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C horizontal Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 1 Mio. Torsion stress ± 180 °/m	Operating temperature max. (dynamic)	80 °C / 90 °C @ 10000 h Operation
Gasoline 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) 5 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C horizontal Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 1 Mio. Torsion stress ± 180 °/m	Flame resistance	IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090
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) 5 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C horizontal Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 1 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) 5 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C horizontal Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 1 Mio. Torsion stress ± 180 °/m	Gasoline resistance	Good, application-related testing
Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 5 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C horizontal Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 1 Mio. Torsion stress ± 180 °/m	Oil resistance	Good, application-related testing DIN EN 60811-404
No. of bending cycles (C-track) 5 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C horizontal Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 1 Mio. Torsion stress ± 180 °/m	Bending radius (fixed)	5 x Outer diameter
Traversing distance (C-track) 5 m @ 25 °C horizontal Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 1 Mio. Torsion stress ± 180 °/m	Bending radius (dynamic)	10 x Outer diameter
Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 1 Mio. Torsion stress ± 180 °/m	No. of bending cycles (C-track)	5 Mio. @ 25 °C
No. of torsion cycles 1 Mio. Torsion stress ± 180 °/m	Traversing distance (C-track)	5 m @ 25 °C horizontal
Torsion stress ± 180 °/m	Travel speed (C-track)	3,3 m/s @ 25 °C
	No. of torsion cycles	1 Mio.
Torsion speed 35 cycles/min	Torsion stress	± 180 °/m
	Torsion speed	35 cycles/min