

M12 female 90° A-cod. with cable LED

PUR 5x0.34 gy UL/CSA+drag ch. 1.5m

Female 90° M12, 5-pole 3× LED (PNP)

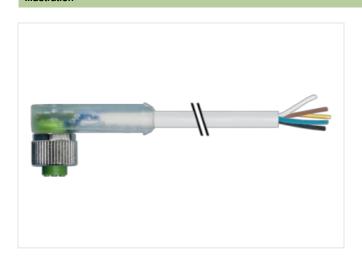
Art-No. 7005 - M12 Lite - (plastic hexagonal screw) on request

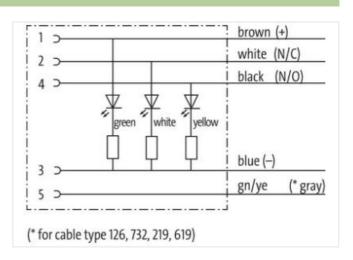
Plastic housings with good resistance against chemicals and oils.

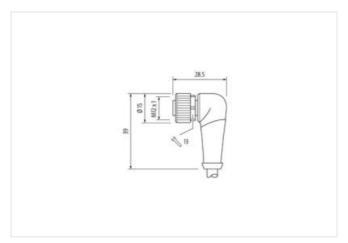
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

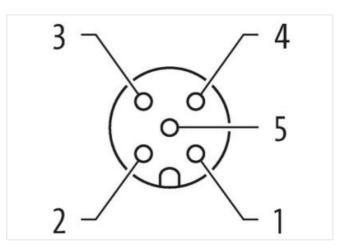
Link to Product

Illustration









Product may differ from Image











Cable length

1,5 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



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Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
suitable for corrugated tube (internal Ø)	10 mm
Coding	A
Material	PUR
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	4048879202183
Packaging unit	1
Electrical data Supply	
Operating voltage DC	24 V
Operating voltage DC min.	18 V
Operating voltage DC max.	30 V
Operating voltage DC max. (UL-listed)	30 V
Current operating per contact max.	4 A
Diagnostics	
Status indication LED	green, white, yellow
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)	I
Mechanical data Material data	
Mechanical data Material data Coating locking	Nickeled
· · · · · · · · · · · · · · · · · · ·	Nickeled nickel plated
Coating locking	
Coating locking Coating of fitting	nickel plated
Coating locking Coating of fitting Locking material	nickel plated Zinc die-casting
Coating locking Coating of fitting Locking material Material screw connection	nickel plated Zinc die-casting
Coating locking Coating of fitting Locking material Material screw connection Mechanical data Mounting data	nickel plated Zinc die-casting Zinc die-casting inserted, screwed, Shaking protection
Coating locking Coating of fitting Locking material Material screw connection Mechanical data Mounting data Mounting method	nickel plated Zinc die-casting Zinc die-casting inserted, screwed, Shaking protection
Coating locking Coating of fitting Locking material Material screw connection Mechanical data Mounting data Mounting method Environmental characteristics Climatic	nickel plated Zinc die-casting Zinc die-casting inserted, screwed, Shaking protection
Coating locking Coating of fitting Locking material Material screw connection Mechanical data Mounting data Mounting method Environmental characteristics Climatic Operating temperature min.	nickel plated Zinc die-casting Zinc die-casting inserted, screwed, Shaking protection
Coating locking Coating of fitting Locking material Material screw connection Mechanical data Mounting data Mounting method Environmental characteristics Climatic Operating temperature min. Operating temperature max.	nickel plated Zinc die-casting Zinc die-casting inserted, screwed, Shaking protection -25 °C 85 °C
Coating locking Coating of fitting Locking material Material screw connection Mechanical data Mounting data Mounting method Environmental characteristics Climatic Operating temperature min. Operating temperature max. Additional condition temperature range	nickel plated Zinc die-casting Zinc die-casting inserted, screwed, Shaking protection -25 °C 85 °C

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Cabble Inferification	Conformity	
Cable Identification 235 Zable Type 3 Jacket Color gray Type of Certificate cLPus Amount stranding 1 Stranding 5 wires around Core Illior twisted Ellior yes view arrangement brown, back, blue, while, green-yellow Cable weigh 41.8 g/m Material Jacket PUR Shore handness Jacket 90 ± 5 Shore A Freadom from ingredients (acket) 90 ± 5 Shore A Ober and the grade (acket) 90 ± 5 Shore A Ober and the grade (acket) 12.5 m Obuster-diameter (glacket) 4.8 mm Obuster-diameter (glacket) 4.5 mm Obuster-diameter (glacket) 5.5 mm Obuster-diameter (glacket) 5.5 mm Obuster-diameter insulation 1.25 mm Incordinates (acket) 1.25 mm Obuster diameter (acket) 5.5 % Shore to Endouse wire insulation 1.25 mm Incordinates (wire) 4.5 % Shore to Endouse wire insulation 1.25 mm	Product standard	DIN EN 61076-2-101 (M12)
Cable Type 3	Installation Cable	
Jacket Color	Cable identification	235
Jacket Color		
Type of Certificate	Jacket Color	grav
Amount stranding 1 Stranding 5 wires around Core filler twisted Fillier yes wire arrangement brown, black, blue, white, green yellow Cable weight 41.8 g/m Markerial jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredents (jacket) 4.8 mm Tolerance outer diameter (jacket) 4.8 mm Tolerance outer diameter (jacket) 4.8 mm Tolerance outer diameter (jacket) 4.8 mm Almount wires 5 Duter diameter (jacket) 4.5 % Shore bardness wire insulation PP Amount wires 5 Duter diameter (jacket) 4.5 % Shore hardness wire insulation 70 ± 5 Shore D Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation 70 ± 5 Shore D Onductor (view) 42 Diameter of single wires 0,1 mm Conductor (view) 4.5 Mm Material conductor we Stranded copper wire, bare Stravesing istance (C+rack)		
Stranding Swires around Core filler twisted		
Filler yes wire arrangement brown, black, blue, white, green-yellow Material jacket PUR Material jacket PUR More hardness jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (gacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Duter diameter (jacket) 4.8 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 5 Duter diameter insulation 1,26 mm Duter diameter insulation 7,0 ± 5 Shore D More diameter insulation 1,26 mm Duter diameter oberance core insulation 1,26 mm Duter diameter oberance core insulation 1,26 mm Duter diameter oberance core insulation 1,26 mm Duter diameter oberance wire insulation 1,26 mm Duter diameter oberance core insulation 1,26 mm Duter diameter oberance core insulation 1,26 mm Duter diameter (oberance core insulation 1,26 mm Diameter of single wires 2,1 mm Diameter of single wires 3,1 mm Diameter of single wires 4,5 A Diameter of single wires 4,5 A Diameter of single wires 5,1 mm Diameter of single wires 5,1 mm	Stranding	5 wires around Core filler twisted
wire arrangement brown, black, blue, white, green yellow Cable weight 41,8 g/m Waletral jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) lead free, cadmium-free, CPC-free, halogen-free, silicone-free Under diameter (jacket) 4,8 mm Tolerance outer diameter (sheath) ± 5 % Walefall wire insulation PP Authority wire insulation 1,25 mm Outer diameter tolerance core insulation ± 5 % Shore Pardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation 1,25 mm Under diameter obligation (wire) 42 Diameter of single wires 0,1 mm Conductor or orssection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor by Givine stranded copper wire, bare Conductor by	Filler	yes
All Sign PUR	wire arrangement	
Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Duter diameter (jacket) 4.8 mm Tolerance outer diameter (hebath) ± 5 % Material wire insulation PP Amount wires 5 Duter diameter insulation 1.25 mm Usubur diameter foreance core insulation 1.25 mm Shore hardness wire insulation 70 ± 5 Shore D ingredient freeness wire insulation 70 ± 5 Shore D ingredient freeness wire insulation 125 mm Amount strands (wire) 42 Diameter of single wires 0,1 mm Conductor or sessetion (wire) 0,34 mm² Meteral conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C horizontal Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (wire wire) 4,5 A Current load capacity min. wire 4,5 Mm @ 2	<u> </u>	-
Shore hardness jacket 90 ± 5 Shore A		
Peredom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free		90 ± 5 Shore A
Outer-diameter (jacket) 4,8 mm Tolerance outer diameter (sheath) ± 5 % Amount wires 5 Duter diameter insulation 1.25 mm Outer diameter insulation ± 5 % Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 42 Diameter of siling wires 0,1 mm Conductor crosssection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) stranded copper wire, bare Traversing distance (C-track) 10 m @ 25 °C horizontal Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (win, wire) 4,5 A Electrical resistance line constant wire 57 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire wire) 2,5 kV @ 60 s Amin. operating temperature (static) 40 °C Max. operating temperature (static) 40 °C	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
2.5 % Adams 2.5 % Adams 2.5 % Adams 2.5 % Adams Adams 2.5 % Adams Adams Adams 2.5 % Adams Adams 2.5 % Adams Ada	Outer-diameter (jacket)	-
Material wire insulation PP Amount wires 5 Outer diameter insulation 1,25 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 42 Diameter of single wires 0,1 mm Conductor crosssection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) stranded copper wire, bare Traversing distance (C-track) 10 m @ 25 °C horizontal Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,5 A Electrical resistance line constant wire 57 Q/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire) 2,5 kV @ 60 s Min. operating temperature (istatic) -40 °C Max. operating temperature (istatic) 80 °C / 90 °C @ 10000 h Operation Poperating temperature max. (dynamic)	Tolerance outer diameter (sheath)	± 5 %
Outer diameter insulation 1,25 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 42 Diameter of single wires 0,1 mm Conductor crosssection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C horizontal Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 298-4 Current load capacity min. wire 4,5 A Electrical resistance line constant wire 57 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - acket) 2,5 kV @ 60 s Min. operating temperature (static) 40 °C Max. operating temperature (min. (dynamic) 25 °C Operating temperature min. (dynamic) 25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Cla	Material wire insulation	PP
25 % 25 %	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 Amount strands (wire) 42 Diameter of single wires 0,1 mm Conductor crosssection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C horizontal 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 4,5 A Electrical resistance line constant wire 57 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - 3cket) 40 °C Alone of the prevature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating temperature min. (dynamic) -25 °C Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Elizer resistance 15C 60332-2-2 UL 1581 § 1909 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Bending radius (fixed) 5 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion stress ± 180 °/m	Outer diameter insulation	1,25 mm
Ingredient freeness wire insulation Amount strands (wire) 42 Diameter of single wires 0,1 mm Conductor crosssection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C horizontal Nominal voltage AC max. 300 V Current load capacity (standard) Current load capacity (standard) Current load capacity wire wire) 4,5 A Electrical resistance line constant wire 57 (Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - acket) Min. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Deprating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Electrone resistance Electrone resistance Electrone resistance Electrone resistance Good, application-related testing Gasoline resistance Good, application-related testing Gasoline resistance Bending radius (fixed) 5 × Outer diameter Electrone (Travel Speed (C-track) 10 No. @ 25 °C Voluer diameter Electrone resistance Electrone Good, application-related testing Electrone Resistance Electrone Electrone Electrone Resistance Electrone Resist	Outer diameter tolerance core insulation	± 5 %
Amount strands (wire) 42 Diameter of single wires 0,1 mm Conductor vive 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C horizontal Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,5 A Electrical resistance line constant wire 57 0/km @ 20 °C AC withstand voltage (wire - wire) 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 (fixed) 80 °C / 90 °C @ 10000 h Operation Deperating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Flame resistance IEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Dil resistance Good, application-related testing	Shore hardness wire insulation	70 ± 5 Shore D
Diameter of single wires 0,1 mm Conductor crosssection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C horizontal Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,5 A Electrical resistance line constant wire 57 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - acket) 2,5 kV @ 60 s Win. 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 Good, application-related testing Chemical resistance Good, application-related testing Coll resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Conductor crosssection (wire) Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C horizontal Nominal voltage AC max. 300 V Current load capacity (standard) Current load capacity min. wire 4,5 A Electrical resistance line constant wire AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - acket) Max. operating temperature (static) AD eprating temperature min. (dynamic) Deprating temperature max. (dynamic) Deprating temperature max. (dynamic) Bending resistance Good, application-related testing Bending radius (fixed) Bending radius (dynamic) Travel speed (C-track) Torsion stress ± 180 °/m Torsion stress ± 180 °/m	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 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) Current load capacity min. wire 4,5 A Electrical resistance line constant wire 57 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - acket) Max. operating temperature (static) 40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (dynamic) 2-25 °C Operating temperature max. (dynamic) 1EC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Bending radius (fixed) So × Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles ± 180 °/m	Diameter of single wires	0,1 mm
Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C horizontal Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,5 A Electrical resistance line constant wire 57 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - acket) 40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) 2-25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Electrical resistance EC Good, application-related testing Gasoline resistance Good, application-related testing Dil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Conductor crosssection (wire)	0,34 mm²
Traversing distance (C-track) 10 m @ 25 °C horizontal Nominal voltage AC max. 300 V Current load capacity (standard) 10 DIN VDE 0298-4 Current load capacity min. wire 4,5 A Electrical resistance line constant wire 57 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - acket) 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 Electroscape 2-2 UL 1581 § 1090 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Dil 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) 10 Mio. @ 25 °C No. of torsion cycles ± 180 °/m	Material conductor wire	Stranded copper wire, bare
Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,5 A Electrical resistance line constant wire 57 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - 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) Elect 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) No. of torsion cycles ± 180 °/m	Conductor type (wire)	strand class 6
Current load capacity (standard) Current load capacity min. wire 4,5 A Electrical resistance line constant wire AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - acket) Min. operating temperature (static) Max. operating temperature (fixed) AC overating temperature min. (dynamic) AD operating temperature max. (dynamic) Elec 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2 Chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Cil resistance Good, application-related testing Bending radius (fixed) 5 x Outer diameter Travel speed (C-track) No. of torsion cycles ± 180 °/m	Traversing distance (C-track)	10 m @ 25 °C horizontal
Current load capacity min. wire 4,5 A Electrical resistance line constant wire 57 \(\textit{ D/km} \) \(\textit{ Q 0 °C} \) AC withstand voltage (wire - wire) 2,5 kV \(\textit{ 60 s} \) Power frequency withstand voltage (wire - acket) 2,5 kV \(\textit{ 60 s} \) Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C / 90 °C \(\textit{ 10000 h Operation} \) Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C \(\textit{ 10000 h Operation} \) Flame resistance IEC 60332-2-2 UL 1581 \(\xi \) 1090 UL 1581 \(\xi \) 1100 FT2 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 Travel speed (C-track) 10 Mio. \(\textit{ 25 °C} \) No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Nominal voltage AC max.	300 V
Electrical resistance line constant wire 57 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - acket) 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 § 1090 UL 1581 § 1100 FT2 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 Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Current load capacity (standard)	to DIN VDE 0298-4
AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - acket) Min. operating temperature (static) 40 °C Max. operating temperature (fixed) Departing temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) Elec 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2 Chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles ± 180 °/m	Current load capacity min. wire	4,5 A
Power frequency withstand voltage (wire - acket) Min. operating temperature (static) Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature min. (dynamic) Operating temperature max. (dynamic) Elec 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2 Chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing Dil resistance Bending radius (fixed) 5 x Outer diameter Fravel speed (C-track) 10 Mio. @ 25 °C No. of torsion stress ± 180 °/m	Electrical resistance line constant wire	57 Ω/km @ 20 °C
All Sending radius (dynamic) Bending radius (dynamic) So Code and a policy designation related testing Code and a policy designation related testing and a policy designation relat	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 § 1090 UL 1581 § 1100 FT2 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 Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Power frequency withstand voltage (wire - jacket)	2,5 kV @ 60 s
Operating temperature min. (dynamic) Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Flame resistance IEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2 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 Travel speed (C-track) No. of torsion cycles 2 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 § 1090 UL 1581 § 1100 FT2 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 Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
Flame resistance IEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2 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 Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles 2 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 Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Operating temperature max. (dynamic)	80 °C / 90 °C @ 10000 h Operation
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) 10 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Flame resistance	IEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2
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) 10 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	chemical resistance	Good, application-related testing
Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Gasoline resistance	Good, application-related testing
Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Oil resistance	Good, application-related testing DIN EN 60811-404
Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Bending radius (fixed)	5 x Outer diameter
No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Bending radius (dynamic)	10 x Outer diameter
Torsion stress ± 180 °/m	Travel speed (C-track)	10 Mio. @ 25 °C
	No. of torsion cycles	2 Mio.
Torsion speed 35 cycles/min	Torsion stress	± 180 °/m
	Torsion speed	35 cycles/min