

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)

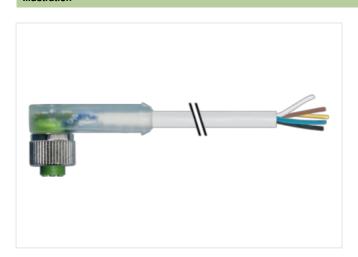
Art-No. 7005 - M12 Lite - (plastic hexagonal screw) on request

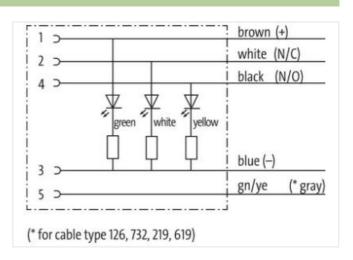
Plastic housings with good resistance against chemicals and oils.

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

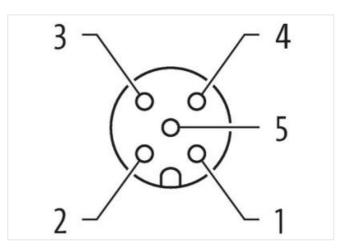
Link to Product

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: 2024-05-21



stay connected

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	g
Mounting set	M12 x 1
-	IVIIZ X I
Device protection Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	0,8 kV
Material group (IEC 60664-1)	l e e e e e e e e e e e e e e e e e e e
Mechanical data Material data	
Coating locking	Nickeled
Coating of fitting	nickel plated
Locking material	Zinc die-casting
Material screw connection	Zinc die-casting
Mechanical data Mounting data	
Mounting method	inserted, screwed, Shaking protection
Environmental characteristics Climatic	
Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
Important installation notes	
Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be
Note on bending radius	endangered by excessive bending forces.

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: 2024-05-21



stay connected

Cable inferification 235 Cable inferification 235 Cable Type 3 Dischet Color gray Type of Certificate CURus Amount stranding 1 Stranding 5 Stra	Conformity	
Cable Identification 236 Cable Type 3 Locked Color gray Type of Certificate CURus Anount stranding 1 Stranding 5 wires around Core filler twisted Filler yes wire arrangement brown, black, blue, white, green-yellow Cable weigh 41,8 gm Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) 18ea-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 4,8 mm Tolerance outer diameter (jacket) 5 % Ancount wires 5 Outer diameter insulation PP Ancount wires 5 Shore hardness wire insulation 1,25 mm Outer diameter insulation 17 ± 5 Shore D Ingredient freeness wire insulation 17 ± 5 Shore D Ingredient freeness wire insulation 17 ± 5 Shore D Ingredient freeness wire insulation 17 ± 5 Shore D Ingredient freeness wire insulation 18 ± 6 % Conducto	Product standard	DIN EN 61076-2-101 (M12)
Cable Type 3 Jacket Color gray Yep of Certificate CURus Annount stranding 1 Stranding 5 wise around Core filler twisted Filler yes wire a rangement brown, black, blue, white, green-yellow Cable weigh 41.8 gm Material placket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (gasket) 4.8 mm Outer diameter (gasket) 4.8 mm Tolerance outer familienter (steath) 4.5 % Material wire insulation FPP Annount wires 5 Outer diameter Insulation 1.25 mm Outer diameter Ins	Installation Cable	
Jacket Color Type of Certificate URUS Amount stranding Briller yes Wire arrangement brown, black, blue, white, green-yellow Cable weight 41.8 g/m Material jacket PUR Shore hardness jacket Tolerance outer diameter (shealth) 1.25 mm Outer diameter insulation PP Material wire insulation PP Amount wires Shore hardness wire insulation 1.25 mm Outer diameter tolerance core insulation Outer	Cable identification	235
Jacket Color Type of Certificate URUS Amount stranding Briller yes Wire arrangement brown, black, blue, white, green-yellow Cable weight 41.8 g/m Material jacket PUR Shore hardness jacket Tolerance outer diameter (shealth) 1.25 mm Outer diameter insulation PP Material wire insulation PP Amount wires Shore hardness wire insulation 1.25 mm Outer diameter tolerance core insulation Outer		3
Type of Certificate Annount stranding 1 Swires around Core filler twisted Filler 998 Write arrangement brown, black, blue, white, green-yellow Cable weight 41.8 g/m Malerial jacket PUR Shore hardness jacket PUR Shore hardness jacket 99.5 Shore A Freedom from ingredients (jacket) Culter-diameter (jacket) 4.8 mm Tohranco outer diameter (spacket) 4.8 mm Tohranco outer diameter (spacket) 5 % Material wire insulation PP Annount wires 5 Outer diameter insulation 70.5 Shore D Ingredient freeness wire insulation 70.0 Shore D Ingredient freeness wire insulation 12.5 mm Outer diameter insulation 70.0 Shore D Ingredient freeness wire insulation 10.1 mm Outer closure outer of the stands of t		
Stranding 1		
Stranding Swires around Core filler twisted	Amount stranding	1
wire arrangement brown, black, blue, white, green-yellow Cable weight 41,8 g/m Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacked) lead-free, cadmium-free, CFC-free, halogen-free, allicone-free Outer-diameter (jacked) ± 5 % Material wire insulation PP Amount wire insulation PP Amount wire insulation 1,25 mm Outer diameter insulation 1,25 mm Outer diameter tolerance core insulation 1,25 mm During dietienter trees wire insulation 1,25 mm Outer diameter tolerance core insulation 1,25 mm Outer diameter diameter diameter tolerance core insulation 1,25 mm Outer diameter diameter diameter diameter (insulation 1,25 mm Outer diameter diameter diameter diameter diameter 1,25 kV @ 60 s Outer diameter diameter diameter diameter diameter 1,25 kV @ 60 s Outer diameter diameter diameter diamete	Stranding	5 wires around Core filler twisted
wire arrangement brown, black, blue, white, green-yellow 3	Filler	yes
Cable weigth 41,8 g/m Material jacket PUR Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 4,8 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 5 Outer diameter tolerance core insulation ± 25 % Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation 42 Diameter of single wires 0,1 mm Conductor crosssection (wire) 42 Diameter of single wires 0,1 mm Conductor crosssection (wire) 5 xtranded copper wire, bare Conductor type (wire) 5 xtranded copper wire, bare Conductor	wire arrangement	
Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from largedients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, allicone-free Outer-diameter (jacket) 4,8 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 5 Outer diameter insulation 1,25 mm Under diameter insulation 70 ± 5 Shore D Ingredient freeness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation 10 ± 5 Shore D Ingredient freeness wire insulation 40 ± 2 Conductor reassection (wire) 43 mm² Material conductor wire 42 Diameter of single wires 0,1 mm Conductor reassection (wire) 9,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C (Inotzontal Nominal valtage AC max. 300 V Current load capacity min. wire 4,5 A Electrical resistance line constant wire 4,5 A <td></td> <td></td>		
Shore hardness jacket 90 ± 5 Shore A		· · ·
Feedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free		
Outer-diameter (jacket) 4,8 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 5 Outer diameter insulation 1,25 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 19 ± 5 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 42 Diameter of Isingle 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 Q/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - jacket) 2,5 kV @ 60 s Min. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation		lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 5 Outer diameter insulation 1,25 mm Outer diameter tolerance core insulation 2,5 mm Outer diameter tolerance core insulation 25 % Shore hardness wire insulation 10 ± 5 % Shore hardness wire insulation 10 teat-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 Ωkm @ 20 °C AC 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 - 40 °C Max. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C 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 Travel speed (C-track) 10 Min. @ 25 °C No. of torsion oxycles 2 Min.		
Material wire insulation PP Amount wires 5 Outer diameter insulation 1,25 mm Outer diameter tolerance core insulation 25 % Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 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 O/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 (istatic) 40 °C Max. operating temperature (istatic) 80 °C / 90 °C @ 100000 h Operation Poperating temperature max. (dynamic) <td>Tolerance outer diameter (sheath)</td> <td>,</td>	Tolerance outer diameter (sheath)	,
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 vire 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 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 - izaket) 4,0 °C Max. operating temperature (static) 40 °C Max. operating temperature mix. (dynamic) 25 °C Operating temperature mix. (dynamic) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Flame resistance IEC 60332-2-2 ILL 1581 § 1090 UL 1581 § 1100 FTZ chemical resistance Good, application-related te	Material wire insulation	PP
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 crossection (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 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 - lacket) 2,5 kV @ 60 s Min. operating temperature (static) 40 °C Max. operating temperature (min. (dynamic) 25 °C Operating temperature min. (dynamic) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) 80 °C / 90 °C @ 10000 h Operation Chemical resistance IEC 60332-2-2 IU 1 1581 § 1090 UL 1581 §	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 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) 2,5 kV @ 60 s Jacket) 40 °C Max. operating temperature (static) 40 °C Max. operating temperature (mixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (dynamic) -25 °C Operating temperature max. (dynamic) -25 °C Operating temperature max. (dynamic) 50 °C @ 10000 h Operation Flame resistance <td>Outer diameter insulation</td> <td>1,25 mm</td>	Outer diameter insulation	1,25 mm
Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free	Outer diameter tolerance core insulation	± 5 %
Amount strands (wire) 42 Diameter of single wires 0,1 mm Conductor crosssection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C horizontal Nominal voltage AG 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 0/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - ack) 80 °C / 90 °C @ 10000 h Operation 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 Gasoline radius (fixed) 5 × Outer diameter Travel speed (C-track) 10 Min. @ 25 °C No. of torsion cycles 2 Min. Torsion stress ± 180 °/m	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 - lacket) 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 Gall resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Oute	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) 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 (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (dynamic) Plame resistance BC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Oil resistance Bending radius (fixed) 5 × Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles ± 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 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 - aicket) 40 °C Max. operating temperature (static) 40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation 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 Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± ±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 \(\infty \) (m @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - lacket) 80 °C / 90 °C @ 10000 h Operation 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 Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Conductor crosssection (wire)	0,34 mm ²
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 - ajacket) 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 Oil resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance Bending radius (fixed) 5 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. Gurrent load capacity (standard) 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 - acceptable with the constant wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - acceptable with the constant wire) 4,5 kV @ 60 s Power frequency withstand voltage (wire - acceptable with the constant 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 ± 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 - igacket) Min. operating temperature (static) Max. operating temperature (fixed) 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 Oil resistance Good, application-related testing Flame 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 Fravel speed (C-track) 10 Mio. @ 25 °C 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 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - jacket) -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 § 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	Nominal voltage AC max.	300 V
Electrical resistance line constant wire 57 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - jacket) 2,5 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (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 - 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 § 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 ± 180 °/m	Current load capacity min. wire	4,5 A
Power frequency withstand voltage (wire - jacket) Min. operating temperature (static) Max. operating temperature (fixed) Operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature min. (dynamic) Operating temperature max. (dynamic) Bo °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 Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles ± 180 °/m	Electrical resistance line constant wire	57 Ω/km @ 20 °C
Min. operating temperature (static) Max. operating temperature (fixed) Max. operating temperature for (fixed) Max. operation (fixed	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) No. of torsion cycles ± 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 Flame resistance Good, application-related testing Oil resistance Good, application-related testing Flame resistance Good, application-related testing Oil resistance Flame resistance Good, application-related testing Flame resistance Flame resistance Good, application-related testing Flame resistance Flame resistance Good, application-related testing Flame resistance Flame resistance Flame resistance Flame resistance Good, application-related testing Flame resistance Flame resistanc	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 ± 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