

M12 female 90° A-cod. with cable LED

PUR 4x0.34 gy UL/CSA+robot+drag ch. 2m

Female 90° Zinc die casting, save-cover coated M12, 4-pole 3× LED (PNP)

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

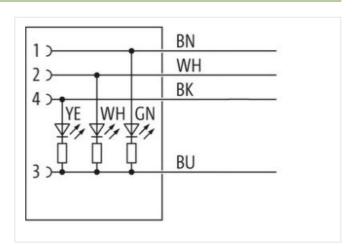
Plastic housings with good resistance against chemicals and oils.

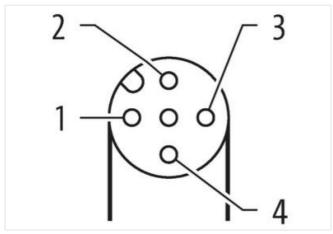
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

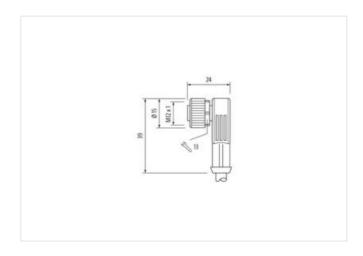
Link to Product

Illustration









Product may differ from Image











Cable length

2 m

Side 1



Tightening torque	0,6 Nm
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	4048879202862
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)	
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	
Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.



stay connected

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.

Conductor crosssection (wire) 0,34 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 4,8 A Electrical resistance line constant wire 60 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 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 UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Gil resistance DIN EN 68811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter No. of bending cycles (C-track) 10 Mio. @ 25 °C Traversing distance (C-track) <th< th=""><th>Note on bending radius</th><th>endangered by excessive bending forces.</th></th<>	Note on bending radius	endangered by excessive bending forces.
installation Cable brown, Black, Blue, white Cable (Explication) 254 Cable (Explication) 254 Cable (Explication) 254 Labetud Color gray Type of Certificate URus Amount stranding 1 Stranding 4 wires wested wire arrangement brown, Black, Blue, white Cable weight 36,3 gm Malorial jacket PUR Shore hardness jacket 58 8.3 Shore D Foedom from ingediants (ackets) 164 free, cadmium free, CFC free, halogen free, slicone free Outer diameter (ackets) 4.7 mm Outer diameter (ackets) 4.7 mm Outer diameter (ackets) 4.7 mm Outer diameter (ackets) 1.25 mm Outer diameter insulation 1.25 mm <td>Conformity</td> <td></td>	Conformity	
installation Cable brown, black, blue, white Cable (Interfectation) 254 Cable (Type) 5 Indiced Color gray Type of Certificiae CUFIus Amount stranding 1 Stranding 4 wires wisted wire arrangement brown, black, blue, white Cable weigh 36,3 grim Markeral jacket PUR Store hardnass jacket 58 s.3 Shore D Freedom from ingedients (gaket) 4,7 mm Freedom from ingedients (gaket) 4,7 mm Tolerance outer diameter (backet) 4,7 mm Outer diameter (dacket) 4,7 mm Tolerance outer diameter (subdistion 1,25 mm Outer diameter (berance core insulation PP Amount strands (wire) 4 Uiter diameter tolerance core insulation 1,25 mm Outer diameter tolerance core insulation 1,25 mm	Product standard	DIN EN 61076-2-101 (M12)
wire arrangement brown, black, blue, white Cable ingent (inclination 254 Cable Type 5 1		
Cabbe identification 254 Cabbe Type 5 Jacket Color gray Type of Certificate cURus Anount stranding 1 Stranding 4 wires twisted wire arrangement brown, black, blue, white Cabbe weight 363, gm Material jacket PUR Fore hardness jacket 158 ± 3 Shore D Freadom from ingredients (jacket) 4,7 mm Outer-diameter (jacket) 4,7 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 4 Amount wire insulation 1,25 mm Outer diameter (sheath) 4 ° Shore D Ingredient freeness wire insulation 1,25 mm Under diameter insulation 1,25 mm Under diameter insulation 1,4 ° Shore D Ingredient freeness wire insulation 1,4 ° Shore	·	heaven blast, blue vikite
Cable Type 5 Jacket Color gray Jacket Color gray Type of Cartificate CURUS Annount Standing 1 Stranding 4 wire twisted wire a rangement brown, back, blue, white Cable weight 36,3 g/m Marterial Jacket PUR Shore hardness Jacket 58 ± 3 Shore D Froadom from ingredients (jacket) 4.7 mm User disameter (jacket) 4.7 mm Outer disameter (jacket) 5 % Material wire insulation PP Amount wires 4 Outer disameter Insulation 1,25 mm Outer disameter Insulation 1,25 mm Outer disameter Insulation 74 ± 3 Shore D Ingredient Eveness wire insulation 74 ± 3 Shore D Ingredient Eveness wire insulation 1,25 mm Amount stands (vier) 42 Diameter of single wires 0,1 mm Conductor type (wire) 3,4 mm² Conductor type (wire) 5 standed copper wire, bare Conductor type (wire) <td></td> <td></td>		
Jacket Color		
Type of Certificate cURsus Amount standing 1 Amount standing 1 Amount standing 4 Amount standing 4 Amount standing 4 Amount standing 4 Awires twisted brown, black, blue, white Cable weight 36,3 g/m Material jacket PUR Shore hardness jacket Freedom from ingredients (jacket) 4,7 mm Tolerance outer diameter (jacket) 4,7 mm Tolerance outer diameter (sheath) 58 ± 3 Shore D Amount wives Amount stranding 7 Amount stranding 7 A ± 3 Shore D Ingredient freeness wire insulation 4 ± 5% Shore hardness wire insulation 7 A ± 3 Shore D Ingredient freeness wire insulation 1 kad-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount stranding wires 0,1 mm Conductor crosssection (wire) 42 Diameter of single wires 0,1 mm Conductor crosssection (wire) 3,4 mm² Material over including Amount strand class 6 Nominal voltage AC max. 0,0 km m² Conductor logacety (standard) 1,5 km m² Current load capacity (standard) 1,5 km m² Ale Strand class 6 Current load capacity (standard) 1,5 km m² Ale Withstand voltage (wire - wire) 2,5 kW @ 60 s Power frequency withstand voltage (wire - wire) 2,5 kW @ 60 s Coperating temperature (static) 4,8 A Max. operating temperature (static) 4,8 A Max. operating temperature (static) 4,8 C Coperating temperature min. (dynamic) 2,5 kW @ 60 s Coperating temperature min. (dynamic) 2,5 kW @ 60 s Coperating temperature min. (dynamic) 2,5 kW @ 60 s Coperating temperature min. (dynamic) 3,8 m² (sod. application-related testing 1,8 m² (sod. application-related		<u> </u>
Amount stranding 1 Stranding 4 wires twisted wire arrangement brown, black, blue, white Cable weigh 36,3 g/m Material jacket PUR Shore hardness jacket 92 8 3 Shore D Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 4,7 mm Toferance outer diameter (sheath) 55 % Material wire insulation PP Amount wires 4 Outer diameter insulation 1,25 mm Oute		
Stranding		
wire arrangement brown, black, blue, white Cable weight 36,3 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) 4,7 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Material wire insulation PP Annount wires 4 Outer diameter insulation 1,25 mm Outer diameter in		
Cable weigh 36,3 g/m Material jacket PUR Amount siacket 58 ± 3 Shore D Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, sillicone-free Outer-diameter (jacket) 4,7 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 4 Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 74 ± 3 Shore D Ingredient reeness wire insulation 74 ± 3 Shore D Ingredient reeness wire insulation 1,5 mm Conductor streems wire insulation 42 Diameter of single wires 0,1 mm Conductor crosssection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) 35 Mm² Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 098-4		
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) 4,7 mm Tollerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 4 Outer diameter tolerance core insulation 1,25 mm Outer diameter tolerance core insulation 2 5 % Shore hardness wire insulation 74 ± 3 Shore D Ingredient freeness wire insulation 42 2 Diameter of single wires 0.1 mm Conductor crosssection (wire) 43 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand dass 6 Nominal vollage 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) to DIN VDE 0298 4 Current load capacity (standard) to DIN VDE 0298 6 Power frequency wi	=	
Shore hardness jacket		
Freedom from ingredients (jacket) lead free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 4,7 mm Toferance outer diameter (sheath) 5 % Material wire insulation PP Amount wires 4 Outer diameter folerance core insulation 1,25 mm Outer diameter folerance core insulation 1,25 mm Outer diameter folerance core insulation 74 ± 3 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 view 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 4,8 A Electrical resistance line constant wire 60 Ωkm @ 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 @ 10000 h Operation Operating		
Outer-diameter (jacket) 4,7 mm Tolerance outer diameter (sheath) ± 5 % Material wire Insulation PP Amount wires 4 Outer diameter insulation 1,25 mm Outer diameter folerance core insulation ± 5 % Shore hardness wire insulation 12.5 mm 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 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,8 A Electrical resistance line constant wire 60 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 Mm. operating temperature (fisted) 40 °C Max. operating temperature (fisted) 80 °C / 90 °C @ 100000 h Operation		
Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 4 Outer diameter (insulation 1,25 mm Outer diameter (olerance 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) 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 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,8 A Electrical resistance line constant wire 60 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 (static) 40 °C Max. operating temperature mix. (dynamic) -25 °C		<u>`</u>
Material wire insulation PP Amount wires 4 Outer diameter insulation 1,25 mm Outer diameter tolorance 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) 42 Diameter of single wires 0,1 mm Conductor or sessection (wire) 0,34 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 (wire wire) 2,5 kV @ 60 s Power frequency 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 (static) -40 °C Max. operating temperature (mix. (dynamic) -25 °C Operating temperature mix. (dynamic) -25 °C </td <td></td> <td>·</td>		·
Amount wires 4 Outer diameter insulation 1,25 mm Outer diameter 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) 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 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (wire - wire) 2,5 kV @ 60 s Electrical resistance line constant wire 60 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Jacket) 2,5 kV @ 60 s Min. operating temperature (static) 40 °C Max. operating temperature (wixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) 25 °C Operating temperature min. (dynamic) 25 °C Chemical resistance UL 1581 § 1090 IEC 60332-22 UL 1581 § 1100 FT2 <td></td> <td></td>		
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) 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 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (wire vire) 4,8 A Electrical resistance line constant wire 60 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 (static) 80 °C / 90 °C @ 10000 h Operation Flame resistance UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing		
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) 42 Diameter of single wires 0,1 mm Conductor cosssection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor (ye) (wire) strand class 6 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN DE 0298-4 Current load capacity min. wire 4,8 A Electrical resistance line constant wire 60 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - zick) 2,5 kV @ 60 s Min. operating temperature (static) 40 °C Max. operating temperature (static) 40 °C Operating temperature max. (dynamic) 2.5 °C Operating temperature max. (dynamic) 2.5 °C Operating tersistance UL 1581 § 1901 [EC 60332-2-2 [UL 1581 § 1100 FT2 Chemical resistance Good, application-related testing Gas		
Shore hardness wire insulation 74 ± 3 Shore D		
Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 42		
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 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4.8 A Electrical resistance line constant wire 60 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 Power frequency withstand voltage (wire) 2,5 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Flame resistance UL 1581 § 1990 IEC 60332-2-2 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Gli resistance DIN EN 60811-404 Good, application-related testing<		
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 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 4,8 A Electrical resistance line constant wire 60 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - 2,5 kV @ 60 s Power frequency withstand voltage (wire - 2,5 kV @ 60 s 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 UL 1581 § 1090 EC 60332-2-2 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Gasoline resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (fixed) 10 x Outer diameter Bending radius (fortack) 10 Min. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C horizontal Traver sing distance (C-track) 3,3 m/s @ 25 °C No. of torsion cycles (C-track) 1 Min.	Ingredient freeness wire insulation	
Conductor crosssection (wire) 0,34 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 4,8 A Electrical resistance line constant wire 60 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 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 UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Gil resistance DIN EN 68811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter No. of bending cycles (C-track) 10 Mio. @ 25 °C Traversing distance (C-track) <th< td=""><td>Amount strands (wire)</td><td>42</td></th<>	Amount strands (wire)	42
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 4,8 A Electrical resistance line constant wire 60 \(\Omega \text{km} \omega \text{0}	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 4,8 A Electrical resistance line constant wire 60 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - iaket) 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 UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter No. of bending cycles (C-track) 10 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.	Conductor crosssection (wire)	0,34 mm²
Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,8 A Electrical resistance line constant wire 60 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 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 UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 10 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C horizontal Travel speed (C-track) 1 Mio.	Material conductor wire	Stranded copper wire, bare
Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,8 A Electrical resistance line constant wire 60 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 UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 1 M 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.	Conductor type (wire)	strand class 6
Current load capacity min. wire 4,8 A Electrical resistance line constant wire 60 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 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 UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter No. of bending cycles (C-track) 10 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C horizontal Travel speed (C-track) 1, Mio.	Nominal voltage AC max.	300 V
Electrical resistance line constant wire 60 \(\Omega / \text{kW} \end{align*} \end{align*} \) 2,5 kV \(\end{align*} \) 60 s Power frequency withstand voltage (wire - gizcket) Min. operating temperature (static) Max. operating temperature (fixed) Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature min. (dynamic) Operating temperature max. (dynamic) Operating temperature max. (dynamic) But 1581 \(\frac{1}{3} \) 1090 \(\proceeding \) 1EC 60332-2-2 \(\procedeng \) UL 1581 \(\frac{1}{3} \) 1100 FT2 Chemical resistance Out resistance Good, application-related testing Gasoline resistance Oil resistance DIN EN 60811-404 \(\procedeng \) Good, application-related testing Bending radius (fixed) 5 x Outer diameter No. of bending cycles (C-track) 10 Mio. \(\procedeng \) 25 °C Traversing distance (C-track) 5 m \(\procedeng \) 25 °C No. of torsion cycles 1 Mio.	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) 225 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Flame resistance UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter No. of bending cycles (C-track) 10 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.	Current load capacity min. wire	•
Power frequency withstand voltage (wire - jacket) Min. operating temperature (static) Au ° C Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature min. (dynamic) Operating temperature max. (dynamic) Operating temperature max. (dynamic) Operating temperature max. (dynamic) Elame resistance UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2 Chemical resistance Good, application-related testing Gasoline resistance Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) Ending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 10 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.	Electrical resistance line constant wire	60 Ω/km @ 20 °C
jacket) Min. operating temperature (static) Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature max. (dynamic) UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Oil resistance Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 × Outer diameter Bending radius (dynamic) 10 × Outer diameter No. of bending cycles (C-track) 10 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.	AC withstand voltage (wire - wire)	2,5 kV @ 60 s
Max. operating temperature (fixed) Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Flame resistance UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter No. of bending cycles (C-track) 10 Mio. @ 25 °C Traver sing distance (C-track) 5 m @ 25 °C horizontal Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 1 Mio.		2,5 kV @ 60 s
Operating temperature min. (dynamic) Operating temperature max. (dynamic) So °C / 90 °C @ 10000 h Operation Flame resistance UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2 Chemical resistance Good, application-related testing Gasoline resistance Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) S x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 10 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.	Min. operating temperature (static)	-40 °C
Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Flame resistance UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 10 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.		
Flame resistance UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 10 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.	1 0 1 1 1	
chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 10 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.	Operating temperature max. (dynamic)	
Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 10 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.	Flame resistance	UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2
Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 10 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.	chemical resistance	7.11
Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 10 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.	Gasoline resistance	- 11
Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 10 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.	Oil resistance	DIN EN 60811-404 Good, application-related testing
No. of bending cycles (C-track) 10 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.	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.	Bending radius (dynamic)	10 x Outer diameter
Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 1 Mio.	No. of bending cycles (C-track)	10 Mio. @ 25 °C
No. of torsion cycles 1 Mio.	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 ± 360 °/m	Torsion stress	± 360 °/m
Torsion speed 35 cycles/min	Torsion speed	35 cycles/min