

M12 Power male 90° / female 0° L-cod.

PUR 5x1.5 gy UL/CSA+drag ch. 10m

Power M12 – M12, 5-pole Male 90° – female straight L-coded

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.

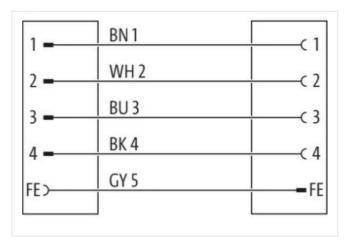
Further cable lengths on request.

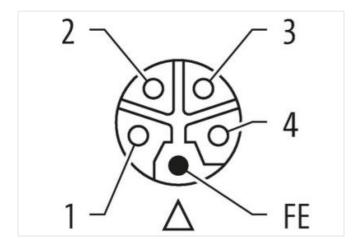
Link to Product

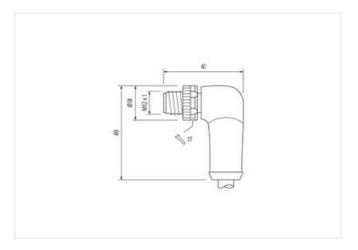
with cable sleeves

Illustration



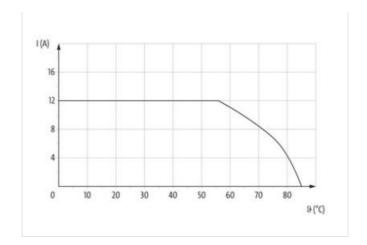


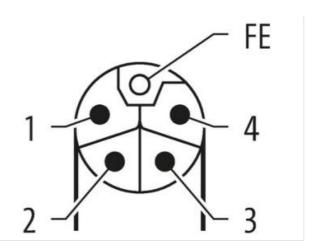


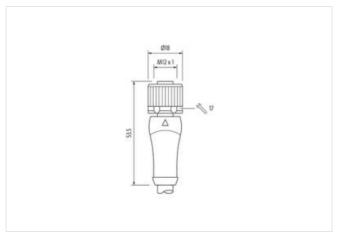




stay connected







Product may differ from Image









Cable length	10 m
Side 1	
Tightening torque	0,6 Nm
Coating contact	gold plated
Family construction form	M12P
Thread	M12 x 1
suitable for corrugated tube (internal Ø)	12 mm
Cable outlet	straight
Coding	L
Material contact	Copper alloy
No. of poles	5
Side 2	
Tightening torque	0,6 Nm
Coating contact	gold plated
Family construction form	M12P
Thread	M12 x 1
suitable for corrugated tube (internal Ø)	16,4 mm



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Cable outlet	angled
Coding	L
Material contact	Copper alloy
No. of poles	5
Commercial data	
ECLASS-6.0	27279218
ECLASS-6.1	27279218
ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0	27060327
ECLASS-10.1	27060311
ECLASS-11.1	27060311
ECLASS-12.0	27060327
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879743655
Packaging unit	1
Electrical data Supply	
Operating voltage DC max.	63 V
Current operating per contact max.	12 A
Diagnostics	
Status indication LED	no
Installation Connection	
Width across flats	SW17
Device protection Electrical	
•	IDAE IDAZ
Degree of protection (EN IEC 60529)	IP65, IP67
Additional condition protection degree Pollution Degree	inserted, screwed 3
Rated surge voltage	1,5 kV
Material group (IEC 60664-1)	
Mechanical data Material data	
•	AP-d1d
Coating locking	Nickeled FKM
Material gasket Material housing	PUR
Locking material	Zinc die-casting
	Zino dio odating
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.
Note on bending radius	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Conformity	
Product standard	IEC 61076-2-111
Installation Cable	
Installation Cable wire arrangement	gray 5, black 4, blue 3, white 2, brown 1



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Printing color of write insulation Jacket Color gray Type of Conficiate Annount stranding I See an around Filter twisted Filter yes write arrangement gray 5, black 4, blue 3, white 2, brown 1 Gable weight 129, gim Material packet PUR Shore hardness jacket PUR Shore hardness wite insulation PP Annount witer insulation PP Annount witer insulation PP Annount witer insulation Dute diameter tipication tipicatio	Cable Type	3
Type of Certificate		black (white isolation), white (isolation blue), white (isolation brown), white (isolation black), white (gray isolation)
Amount stranding 1 Stranding 5 wires around Filter twisted Filter yes wite arrangement gray 5, black 4, blue 3, white 2, brown 1 Cable weight 129.8 g m Material jacket PUR Freedoom from ingredients (sicket) 90.1 5 Strore A Freedoom from ingredients (sicket) 8.2 mm Telecodon from ingredients (sicket) 8.2 mm Telecomo force ingredients (sicket) 2.5 mm Material wire insulation 9.5 % Material wire insulation 2.5 mm Outer diameter insulation 8.5 % strong D Ingredient freeness wire insulation 8.9 % Strone D Store hardrises wire insulation 8.6 4 Strone D Ingredient freeness wire insulation 8.6 4 Strone D Ingredient freeness wire insulation 8.4 D Printing color of wire insulation 8.4 D Diameter of Single wires 0.15 mm Conductor	Jacket Color	gray
Syranding Syra	Type of Certificate	cURus
Filter yes wire arrangement gray 5, black 4, blue 3, white 2, brown 1	Amount stranding	1
wire arrangement gray 5, black 4, blue 3, white 2, brown 1 Cable weigh 129.8 g/m Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) 8.2 mm Coluter-diameter (jacket) 8.2 mm Toler ance outer diameter (sheath) 1.5 % Material wire insulation PP Amount wires 5 Cuter diameter insulation 2.3 mm Outer diameter insulation 3.5 % Shore hardness wire insulation 60 ± 5 Shore D Ingredient treeness wire insulation 60 ± 5 Shore D Ingredient treeness wire insulation 8.4 % Diameter of single wires 3.1 5 mm² Conductor or vire insulation 5.5 mm Conductor crosssection (wire) 4.4 Diameter of single wires 0.15 mm Conductor or vires 0.15 mm Conductor vire 0.15 mm Conductor vi	Stranding	5 wires around Filler twisted
Cable weight 129.8 g/m Material jacket PUR Material jacket 99.4 5 Shore A Freedom form impretients (jacket) least-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 5.5 % Material wire insulation PP Amount wires 5 Cour diameter insulation 2.3 mm Outer diameter tolerance order insulation 6.9 £ Shore D Ingredient freeness wire insulation 6.9 £ Shore D Ingredient freeness wire insulation black (white isolation), white (solation blue), white (solation brown), white (gray isolation) Printing color of wire insulation black (white isolation), white (solation blue), white (solation brown), white (gray isolation) Amount strands (vire) 84 Damater of single wires 0,15 mm Conductor type (vire) stranded comport wire, bare Conductor type (vire) strand class 6 Naminal vollage AC max. 1000 V Current load capacity (standard) 10 kV Ø 60 s Electrical resistance line constant wire 13.3 Ωkm @ 20 °C AC withstand voltage (wire - wire) 10 kV Ø 60 s	Filler	yes
Material Jacket	wire arrangement	gray 5, black 4, blue 3, white 2, brown 1
Shore hardness jacket 90 ± 5 Shore A Freedom from impedients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (glocket) 8.2 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 5 Outer diameter tolerance core insulation 2,3 mm Outer diameter tolerance core insulation 60 ± 5 Shore D Ingredient freeness wire insulation 60 ± 5 Shore D Ingredient freeness wire insulation 60 ± 5 Shore D Ingredient freeness wire insulation black (white isolation), white (solation brown), white (isolation black), white (gray isolation) Printing color of wire insulation B4 Diameter of single wires 0,15 mm Conductor recessection (wire) 1,5 mm² Material conductor wire Stranded copper wire, bare Conductor (type (wire) strand class 6 Nominal voltage AC max. 1000 V Current load capacity (standard) to DIN VDE 2094-4 Current load capacity (standard) to DIN VDE 2094-4 Current load capacity wire, wire 13,3 Ω/km @ 20 °C	Cable weigth	129,8 g/m
Freedom from ingredients (jacket) Outer-diameter (jacket) Amount wires 5 Material wire insulation PP Amount wires Outer diameter resultation Outer diameter insulation Outer diameter of wire insulation Outer diameter of single wires Outer of or wire insulation Outer diameter of single wires Outer of outer insulation black (white isolation), white (isolation blue), white (isolation brown), w	Material jacket	PUR
Outer-diameter (jacket) 8,2 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 5 Outer diameter insulation 2,3 mm Outer diameter foreance core insulation ± 5 % Shore hardness wire insulation 60 ± 5 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Printing color of wire insulation black (white isolation), white (isolation blue), white (solation brown), white (isolation black), white (gray isolation) Amount strands (wire) 84 Diameter of single wires 0,15 mm Conductor crosssection (wire) 1,5 mm² Material conductor wire Stranded copper wire, barre Conductor type (wire) strand class 6 Nominal voltage AC max. 1000 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 13,3 Ω/km @ 20 °C AC withstand voltage (wire - wire) 10 kV @ 60 s Power trequency withstand voltage (wire - wire) 10 kV @ 60 s Min. operating temperature (fixed) 80 °C / 90 °C @ 100000 h Operation	Shore hardness jacket	90 ± 5 Shore A
Tolerance outer diameter (sheath)	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Material wire insulation PP Amount wires 5 Outer diameter insulation 2,3 mm Outer diameter tolorance core insulation ± 5 % Shore hardness wire insulation 60 ± 5 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Printing color of wire insulation black (white isolation), white (isolation blue), white (isolation brown), white (isolation black), white (gray isolation) Amount strands (wire) 84 Diameter of single wires 0,15 mm Conductor crosssection (wire) 1,5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max 1000 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 13,5 A Electrical resistance line constant wire 13,3 Ω/km @ 20 °C AC withstand voltage (wire - wire) 10 kV @ 60 s Power frequency withstand voltage (wire - wire) 10 kV @ 60 s Min. operating temperature (static) 450 °C Max. operating temperature (static) 80 °C / 90 °C @ 10000 h	Outer-diameter (jacket)	8,2 mm
Amount wires 5 Outer diameter insulation 2,3 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 60 ± 5 Shore D Ingredient freeness wire insulation lead-free, cadmirum-free, CFC-free, halogen-free, silicone-free Printing color of wire insulation black (white isolation), white (isolation blue), white (isolation brown), white (isolation black), white (gray isolation) Amount strands (wire) 84 Diameter of single wires 0,15 mm Conductor of single wires 0,15 mm Conductor crosssection (wire) 1,5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max. 1000 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 13,5 A Electrical resistance line constant wire 13,3 C/km @ 20 °C AC withstand voltage (wire - wire) 10 kV @ 60 s Power frequency withstand voltage (wire - isokel) 10 kV @ 60 s Min. operating temperature (fixed) 80 °C	Tolerance outer diameter (sheath)	± 5 %
Outer diameter Insulation 2,3 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 60 ± 5 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Printing color of wire insulation black (white isolation), white (isolation blue), white (isolation brown), white (isolation black), white (gray isolation) Amount strands (wire) 84 Diameter of single wires 0,15 mm Conductor crosssection (wire) 1,5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage (X max.) 1000 Y Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 13,3 Ω/km @ 20 °C AC withstand voltage (wire - wire) 10 kV @ 60 s Power frequency withstand voltage (wire - wire) 10 kV @ 60 s Min. operating temperature (static) -50 °C Max. operating temperature (static) -50 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating	Material wire insulation	PP
Outer diameter tolerance core insulation ± 5 % Shore bardness were insulation 60 ± 5 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Printing color of wire insulation black (white isolation), white (isolation blue), white (isolation brown), white (isolation black), white (gray isolation) Amount strands (wire) 84 Diameter of single wires 0,15 mm Conductor wire \$tranded copper wire, bare Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max. 1000 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (wire - wire) 13,3 Ω/km @ 20 °C AC withstand voltage (wire - wire) 10 kV @ 60 s Power frequency withstand voltage (wire - wire) 10 kV @ 60 s Min. operating temperature (static) 50 °C Max. operating temperature (static) 80 °C / 90 °C @ 10000 h Operation Operating temperature (mix. (dynamic) 80 °C / 90 °C @ 10000 h Operation Chemical resistance Good, applicati	Amount wires	5
Shore hardness wire insulation 60 ± 5 Shore D	Outer diameter insulation	2,3 mm
Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Printing color of wire insulation black (white isolation), white (isolation blue), white (isolation brown), white (isolation black), white (gray isolation) Amount strands (wire) 84 Diameter of single wires O.15 mm Conductor crosssection (wire) 1,5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) Stranded copper wire, bare Conductor type (wire) Strand class 6 Nominal voltage AC max. 1000 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 13,5 A Electrical resistance line constant wire 13,3 \(\Omega\) km @ 20 °C AC withstand voltage (wire - wire) Power frequency withstand voltage (wire - iake) Jok V @ 60 s Min. operating temperature (static) Max. operating temperature (static) Associate preparature max. (dynamic) Operating temperature max. (dynamic) Operating temperature max. (dynamic) Good, application-related testing Gasoline resistance UL 1581 § 1100 FT2 IEC 60332-2 2 UL 1581 § 1090 Chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance Good, application-related testing No. of bending cycles (C-track) 5 m @ 25 °C Travel speed (C-track) 5 m @ 25 °C Travel speed (C-track) 3 m @ 25 °C Travel speed (C-track) 7 min. of bending cycles (C-track) 5 m @ 25 °C Travel speed (C-track) 7 min. of bending cycles 2 Min. 10 solution related testing 10 soluter diameter 2 min. of control or solution cycles 2 min. of bending cycles 3 min. of bending cycles 4 min. of bending cycles 4 min. of bending cycles 4 min. of bending cycles 5 min. of bending cycles 6 min. of bending cycles 6 min. of bending cycles 6 min.	Outer diameter tolerance core insulation	± 5 %
Printing color of wire insulation black (white isolation), white (isolation brown), white (isolation black), white (gray isolation) Amount strands (wire) 84 Diameter of single wires 0,15 mm Conductor orosssection (wire) 1,5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max. 1000 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 (wire) 13,5 A Electrical resistance line constant wire 13,3 Ω/km @ 20 °C AC withstand voltage (wire - wire) 10 kV @ 60 s Power frequency withstand voltage (wire - lacket) Min. operating temperature (static) -50 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (dynamic) -25 °C Operating temperature max. (dynamic) -60 °C, 00 °C @ 10000 h Operation Chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (fixed) 5 Min. @ 25 °C Traver speed (C-track) 5 Min. @ 25 °C Traver speed (C-track) 5 Min. @ 25 °C No. of torsion cycles 2 Min. Torsion stress ± ± 180 °/m	Shore hardness wire insulation	60 ± 5 Shore D
Amount strands (wire) 84 Diameter of single wires 0,15 mm Conductor crosssection (wire) 1,5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max. 1000 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 13,5 A Electrical resistance line constant wire 13,3 Ω/km @ 20 °C AC withstand voltage (wire - wire) 10 kV @ 60 s Power frequency withstand voltage (wire - incident) 10 kV @ 60 s Min. operating temperature (static) -50 °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 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Diameter of single wires 0,15 mm Conductor crosssection (wire) 1,5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max. 1000 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 13,5 A Electrical resistance line constant wire 13,3 Ω/km @ 20 °C AC withstand voltage (wire - wire) 10 kV @ 60 s Power frequency withstand voltage (wire - jacket) 10 kV @ 60 s Min. operating temperature (static) -50 °C Max. operating temperature (static) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) 80 °C / 90 °C @ 10000 h Operation Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) <td< td=""><td>Printing color of wire insulation</td><td>black (white isolation), white (isolation blue), white (isolation brown), white (isolation black), white (gray isolation)</td></td<>	Printing color of wire insulation	black (white isolation), white (isolation blue), white (isolation brown), white (isolation black), white (gray isolation)
Conductor crosssection (wire) 1,5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max. 1000 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 13,5 A Electrical resistance line constant wire 13,3 Ω/km @ 20 °C AC withstand voltage (wire - wire) 10 kV @ 60 s Power frequency withstand voltage (wire - jacket) 10 kV @ 60 s Min. operating temperature (static) -50 °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 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 Chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 × Outer diameter Bending radius (dynamic) 5 × Outer diameter No. of bending cycles (C-track) 5 m@ 25 °C Travel speed (C-	Amount strands (wire)	84
Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max. 1000 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 13,5 A Electrical resistance line constant wire 13,3 0/km @ 20 °C AC withstand voltage (wire - wire) 10 kV @ 60 s Power frequency withstand voltage (wire - lacket) 5 °C Max. operating temperature (static) 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 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing Bending radius (fixed) 5 × Outer diameter Bending radius (dynamic) 10 × Outer diameter Rending rolles (C-track) 5 mio @ 25 °C Travel speed (C-track) 5 mio @ 25 °C Travel speed (C-track) 5 mio @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Diameter of single wires	0,15 mm
Conductor type (wire) strand class 6 Nominal voltage AC max. 1000 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 13,5 A Electrical resistance line constant wire 13,3 Ω/km @ 20 °C AC withstand voltage (wire - wire) 10 kV @ 60 s Power frequency withstand voltage (wire - jacket) 10 kV @ 60 s Min. operating temperature (static) -50 °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 Ut 1581 § 1100 FT2 IEG 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Gil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 5 Mio. @ 25 °C Traversing distance (C-track) 5 Mio. @ 25 °C Traversing distance (C-track) 5 Mio. @ 25 °C Traversing	Conductor crosssection (wire)	1,5 mm²
Nominal voltage AC max. 1000 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 13,5 A Electrical resistance line constant wire 13,3 Ω/km @ 20 °C AC withstand voltage (wire - wire) 10 kV @ 60 s Power frequency withstand voltage (wire - alacket) -50 °C Max. operating temperature (static) -50 °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 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Bending radius (dynamic) 5 Mio. @ 25 °C Traver sing distance (C-track) 5 m @ 25 °C Traver sing distance (C-track) 3,3 m/s @ 25 °C Traver sing distance (C-track) 3,3 m/s @ 25 °C Traver sing cycles (C-track) 3,3 m/s @ 25 °C Traver sing cycles 2 Mio. Torsion stress ± 180 °/m	Material conductor wire	Stranded copper wire, bare
Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 13,5 A Electrical resistance line constant wire 13,3 Ω/km @ 20 °C AC withstand voltage (wire - wire) 10 kV @ 60 s Power frequency withstand voltage (wire - jacket) 10 kV @ 60 s Min. operating temperature (static) -50 °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 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter No. of bending cycles (C-track) 5 Mio. @ 25 °C Traversing distance (C-track) 5 Mio. @ 25 °C Traversing distance (C-track) 3,3 m/s @ 25 °C Travel speed (C-track) 3,3 m/s @ 25 °C Travel speed (C-track) 3,3 m/s @ 25 °C Torsion stress ± 180 °/m	Conductor type (wire)	strand class 6
Current load capacity min. wire 13,5 A Electrical resistance line constant wire 13,3 \(\textit{ \textit{ Min. operating temperature (static)} \) Power frequency withstand voltage (wire - iacket) 10 kV @ 60 s Min. operating temperature (static) -50 °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 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 5 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3,3 m/s @ 25 °C Travel speed (C-track) 3,3 m/s @ 25 °C Trosion stress ± 180 °/m	Nominal voltage AC max.	1000 V
Electrical resistance line constant wire 13,3 \(\Omega \) \(\text{ M} \text{ Q 0 °C} \) AC withstand voltage (wire - wire) 10 kV \(\text{ Q 60 s} \) Power frequency withstand voltage (wire - jacket) -50 °C Min. operating temperature (static) -50 °C Max. operating temperature (fixed) 80 °C / 90 °C \(\text{ Q 10000 h Operation} \) Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C \(\text{ Q 10000 h Operation} \) Flame resistance UL 1581 \(\xi \) 1100 FT2 IEC 60332-2-2 UL 1581 \(\xi \) 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 5 Mio. \(\text{ Q 25 °C} \) Traversing distance (C-track) 5 m \(\text{ Q 25 °C} \) Travel speed (C-track) 3,3 m/s \(\text{ Q 25 °C} \) No. of torsion cycles \(\text{ 2 Mio.} \) Torsion stress \(\pm \) ± 180 °/m	Current load capacity (standard)	to DIN VDE 0298-4
AC withstand voltage (wire - wire) Power frequency withstand voltage (wire - jacket) Min. operating temperature (static) Josepha Company (static)	Current load capacity min. wire	13,5 A
Power frequency withstand voltage (wire - jacket) Min. operating temperature (static) Min. operating temperature (fixed) Min. operating temperature min. (dynamic) Poperating temperature min. (dynamic) Poperating temperature max. (dynamic) Min. operating temperature min. (dynamic) Min. operating temperature (fixed) Min. operating temperature min. (dynamic) Min. operating temperature min. (dynamic) Min. operating temperature (fixed) Min. operation Min. op	Electrical resistance line constant wire	13,3 Ω/km @ 20 °C
Min. operating temperature (static) Min. operating temperature (fixed) Min. operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 5 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles ± 180 °/m	AC withstand voltage (wire - wire)	10 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 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 5 Mio. @ 25 °C Traver sing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m		10 kV @ 60 s
Operating temperature min. (dynamic) Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 5 m @ 25 °C Traversing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Min. operating temperature (static)	-50 °C
Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 5 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3,3 m/s @ 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 UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 5 mio. @ 25 °C Traversing distance (C-track) 5 mio. 25 °C Travel speed (C-track) 3,3 m/s @ 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 No. of bending cycles (C-track) 5 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3,3 m/s @ 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 No. of bending cycles (C-track) 5 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Flame resistance	UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090
Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 5 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3,3 m/s @ 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 No. of bending cycles (C-track) 5 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3,3 m/s @ 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 No. of bending cycles (C-track) 5 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Oil resistance	Good, application-related testing DIN EN 60811-404
No. of bending cycles (C-track) 5 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Bending radius (fixed)	5 x Outer diameter
Traversing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Bending radius (dynamic)	10 x Outer diameter
Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	No. of bending cycles (C-track)	5 Mio. @ 25 °C
No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Traversing distance (C-track)	5 m @ 25 °C
Torsion stress ± 180 °/m	Travel speed (C-track)	3,3 m/s @ 25 °C
	No. of torsion cycles	2 Mio.
Torsion speed 35 cycles/min	Torsion stress	± 180 °/m
	Torsion speed	35 cycles/min