



Coiled PUR spiral power & control cable

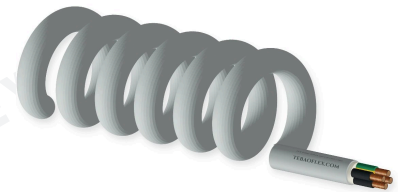
PUR Spiral Power and Control Cable

3.5 : 1 retractable coiled PUR power & control cable (L0 100–1500 mm)

300/500 V & 450/750 V

3.5 : 1 Extension (L1:L0)

High-Memory PUR

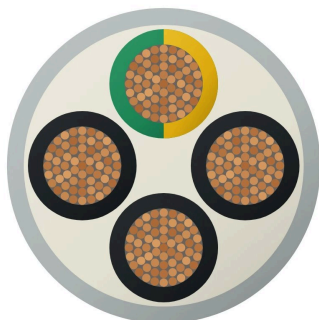


Application

Self-retracting coiled power and control cable engineered with IEC 60228 Class 5/6 fine copper strands, high-modulus memory TPE-E/PVC core insulation and abrasion-proof polyether PUR jacket delivering a 3.5 : 1 extension ratio (L1 : L0) without sagging.

Typical uses: Scissor Lifts & Elevating Tables, Handheld Power Tools & Hoists, AGV & Roller-Conveyor Transfer Gates, Medical & Dental Overhead Booms, Commercial Vehicle & Trailer Leads

Construction



Cross-section, not to scale

- 1 Flexible copper conductor
- 2 High-rebound core insulation
- 3 Torsion-balanced core lay
- 4 Interlayer separating film
- 5 High-memory PUR outer sheath

Technical data

Typical values

Rated voltage U0/U	300/500 V (450/750 V heavy-duty option)	AC test voltage	3000 V AC (50 Hz, 5 min)
Insulation resistance	≥ 20 MΩ·km at 20 °C	Current rating	Per DIN VDE 0298-4 (apply 0.65× coil factor)
Temperature, flexing	−30 °C to +70 °C (coil extension service)	Temperature, fixed installation	−40 °C to +80 °C
Max. conductor temperature	+70 °C	Extension ratio (L1 : L0)	Up to 3.5 : 1 (standard) · 4.0 : 1 (≤ 4G1.0)
Standard block lengths (L0)	100, 200, 300, 400, 500, 750, 1000, 1500 mm	Straight tail ends	200 mm / 200 mm (axial or radial exit)
Extension endurance	≥ 100,000 full extension/retraction cycles	Oil resistance	DIN EN 50363-10-2 (mineral & cutting oils)
Flame retardance	IEC 60332-1-2 self-extinguishing	UV & ozone	UV, weather and microbe resistant (EN ISO 846)
Abrasion	High tear and notch resistance (DIN ISO 4649)	Standards	Based on DIN EN 50525-2-21 / VDE 0285

Sizes

16 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

Order designation	Cores × mm ²	Block L0 / Max L1	Cable Ø ≈ mm	Coil outer Ø mm ≈	Linear Cu kg/km	Linear wt ≈ kg/km
0.75 mm ² PUR spiral control & power cables 6 sizes						
☐ SPIRAL-PUR 3G0.75 (500/1750)	3G0.75	500 / 1750 mm	6.2	23.0	22	54
☐ SPIRAL-PUR 4G0.75 (500/1750)	4G0.75	500 / 1750 mm	6.8	25.0	29	66
☐ SPIRAL-PUR 5G0.75 (500/1750)	5G0.75	500 / 1750 mm	7.4	27.0	36	79
☐ SPIRAL-PUR 7G0.75 (500/1750)	7G0.75	500 / 1750 mm	8.5	31.0	50	108
☐ SPIRAL-PUR 12G0.75 (500/1750)	12G0.75	500 / 1750 mm	10.6	38.0	86	172
☐ SPIRAL-PUR 18G0.75 (500/1500)	18G0.75	500 / 1500 mm	12.5	45.0	130	245
1.0 mm ² PUR spiral power & control cables 4 sizes						
☐ SPIRAL-PUR 3G1.0 (500/1750)	3G1.0	500 / 1750 mm	6.6	24.0	29	64
☐ SPIRAL-PUR 4G1.0 (500/1750)	4G1.0	500 / 1750 mm	7.2	26.0	38	78
☐ SPIRAL-PUR 5G1.0 (500/1750)	5G1.0	500 / 1750 mm	7.9	29.0	48	95
☐ SPIRAL-PUR 7G1.0 (500/1750)	7G1.0	500 / 1750 mm	9.2	34.0	67	132
1.5 mm ² heavy-duty PUR spiral power cables 4 sizes						
☐ SPIRAL-PUR 3G1.5 (500/1750)	3G1.5	500 / 1750 mm	7.5	28.0	43	86
☐ SPIRAL-PUR 4G1.5 (500/1750)	4G1.5	500 / 1750 mm	8.3	30.0	58	108
☐ SPIRAL-PUR 5G1.5 (500/1750)	5G1.5	500 / 1750 mm	9.1	33.0	72	132
☐ SPIRAL-PUR 7G1.5 (500/1500)	7G1.5	500 / 1500 mm	10.7	39.0	101	184
2.5 mm ² 3-phase PUR spiral power cables 2 sizes						
☐ SPIRAL-PUR 4G2.5 (500/1500)	4G2.5	500 / 1500 mm	10.1	37.0	96	168
☐ SPIRAL-PUR 5G2.5 (500/1500)	5G2.5	500 / 1500 mm	11.2	41.0	120	206

– Linear cable length inside a 500 mm closed spiral block (L0) is approximately 2.1 m to 2.4 m plus two 200 mm straight ends.

Standard block lengths (L0 vs L1) & electrical data

8 sizes

Closed block L0	Working length L1 (3.5:1 ratio)	Working length L1 (≥12G / 2.5 mm ²)	Standard straight ends (End A / End B)	Ref. 1.5 mm ² DC R Ω/km
100 mm	350 mm	300 mm	200 mm / 200 mm	13.3
200 mm	700 mm	600 mm	200 mm / 200 mm	13.3
300 mm	1050 mm	900 mm	200 mm / 200 mm	13.3
400 mm	1400 mm	1200 mm	200 mm / 200 mm	13.3
500 mm	1750 mm	1500 mm	200 mm / 200 mm	13.3
750 mm	2600 mm	2250 mm	200 mm / 200 mm	13.3
1000 mm	3500 mm	3000 mm	200 mm / 200 mm	13.3
1500 mm	5000 mm	4200 mm	250 mm / 250 mm	13.3

– For continuous current loads when the spiral is closed (L0), apply a 0.65× grouping derating factor to account for adjacent coil turns.

Standards and approvals

- ✓ CE (2014/35/EU Low Voltage Directive)
- ✓ DIN EN 50363-10-2 TPU Sheath Compliant
- ✓ RoHS 2 (2011/65/EU) & REACH Compliant

Certifications



Management systems: ISO 9001, ISO 14001, ISO 45001

Request a quotation

Send the size, length and destination. An application engineer replies within 2 business hours.

WhatsApp / phone

+86 185 9591 3361

Email

info@tebaoflex.com

Web

tebaoflex.com/cables/pur-spiral-power-and-control-cable



Typical values for this cable type, based on DIN VDE 0285 / DIN EN 50363-10-2. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.