



Compact spring-reel & extension cables

C800

0.6/1 kV Extra-Flexible Round PVC Cable for Spring Reels

Compact double-sheathed PVC control & power cable with transparent outer jacket



0.6/1 kV

Spring-Reel PVC

Transparent Outer Jacket

Application

Extra-flexible 0.6/1 kV round PVC reeling cable (C800) for compact spring and extension reels up to 60 m/min, featuring Class 5 copper conductors, short-lay PVC cores, PVC inner sheath and a transparent PVC outer jacket with integrated tear-up cord.

Typical uses: Spring-driven workshop & hoist reels, Automated guided vehicles & carts, Packaging & assembly-line machinery, Overhead workstation tool balancers, Warehouse mobile control stations, Compact extension & service reels

Construction



Cross-section, not to scale

1 ConductorDIN VDE 0295 / IEC 60228
Class 5**2** Core insulation

NF C 32-090 / IEC 60502-1

3 Inner sheath**4** Tear-up ripcord**5** Outer sheath

Technical data

Typical values

Rated voltage U ₀ /U	0.6/1 kV (IEC 60502-1)	Voltage test	3.5 kV AC per IEC 60502-1
Ambient temperature — flexing & fixed	-10 to +60 °C	Max. conductor operating temperature	+80 °C (short-circuit +110 °C)
Max. horizontal travel speed	Up to 60 m/min on compact spring and extension reels	Min. bending radius	3 × D static · 6 × D on spool · 8 × D dynamic guiding
Permissible tensile load	20 N/mm ² (40 N on 2×1 mm ² up to 240 N on 12G1–15G1, 6G2 and 4G3)	Standards	DIN VDE 0295 / IEC 60228 Class 5 · IEC 60502-1 · NF C 32-090 · IEC 60332-1
Standard packing	Drums or pre-cut spring-reel lengths		

Sizes

13 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	AWG ≈	Outer Ø max. mm	Copper kg/km	Weight ≈ kg/km	Spool R (6×D) mm	Dynamic R (8×D) mm	Max. pull N
Control 1.0 mm ² (2×1–15G1) 8 sizes								
☐ C800 2×1	2 × 1	18	5.7	19.2	46	35	46	40
☐ C800 3G1	3 G 1	18	6.0	28.8	59	36	48	60
☐ C800 4G1	4 G 1	18	6.8	38.4	75	41	55	80
☐ C800 6G1	6 G 1	18	8.0	57.6	110	48	64	120
☐ C800 8G1	8 G 1	18	9.7	76.8	157	59	78	160
☐ C800 10G1	10 G 1	18	10.6	96.0	181	64	85	200
☐ C800 12G1	12 G 1	18	12.2	115.2	232	74	98	240
☐ C800 15G1	15 G 1	18	12.9	144.0	260	78	104	240
Power 2.0 & 3.0 mm ² (3G2–4G3) 5 sizes								
☐ C800 3G2	3 G 2	14	7.1	57.6	93	43	57	120
☐ C800 4G2	4 G 2	14	8.0	76.8	120	48	64	160
☐ C800 5G2	5 G 2	14	8.7	96.0	149	53	70	200
☐ C800 6G2	6 G 2	14	9.8	115.2	181	59	79	240
☐ C800 4G3	4 G 3	13	10.4	115.2	199	63	84	240

– Weights in the source table (0.046 to 0.260 kg/m) are expressed here in kg/km (46 to 260 kg/km) for consistency.

Conductor & electrical data

3 sizes

Cross-section mm ²	AWG ≈	Max. R ₂₀ Ω/km	Base rating in air 30 °C, A	Configurations
1.0	18	19.5	15	2×1 to 15G1
2.0	14	9.95	24	3G2 to 6G2
3.0	13	6.6	30	4G3

– Apply drum-layer and multi-core grouping derating factors when sizing spring reels.

Standards and approvals

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/c800-extra-flexible-pvc-reeling-cable



Typical values for this cable type, based on IEC 60502-1 / NF C 32-090. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.