flexible elastomer wind turbine torsion cable

0.6/1 kV Multi-Core Salt-Mist Wind

0.6/1 kV Cold, Oil & Salt-Mist-Resistant Cross-Linked Elastomer Multi-

IEC 60502-1 / ISO 9227 · 0.6/1 kV · Flexible elastomer wind turbine torsion cable



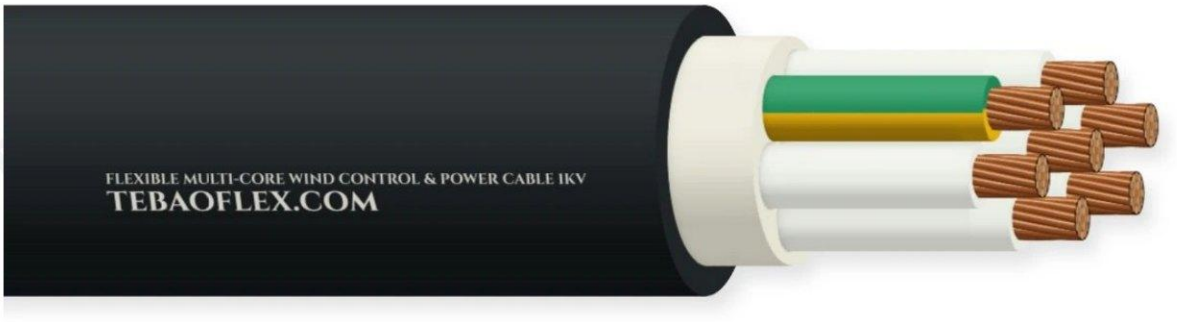
IEC 60502-1 / ISO 9227 | **0.6/1 kV (-40 to +90 °C)** | **Cold, Oil & Salt-Mist Elastomer Oute**

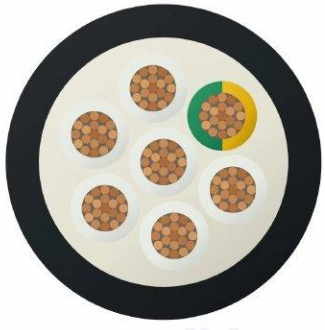
Application

0.6/1 kV Cold, Oil & Salt-Mist-Resistant Cross-Linked Elastomer Multi-Core Wind Energy Control & Power Cable (IEC 60502-1 / ISO 9227) engineered for 0.6/1 kV wind turbine service across -40 to +90 °C (min. bend radius 6 × OD).

Typical uses: Onshore & Offshore Wind Turbine Yaw Drip Loops, Ultra-Cold (−55 °C) Arctic & High-Altitude Wind Farms, GB/T 29631 & NB/T 31034 Utility Wind Generators, Nacelle Auxiliary Power, Yaw & Pitch Motor Circuits

Construction





Cross-section, not to scale

1. Finely Stranded Flexible Copper Conducto
2. Cold-Resistant Cross-Linked Core Insulat
3. Cold, Oil & Salt-Mist Elastomer Outer Ja

Technical data

Typical values

Rated voltage / operating system	0.6/1 kV (IEC 60502-1 & ISO 9227 Salt-Spray Qualified Offshore/Onshore Wind Elastomer Specification)	**Core / conductor construction**	Finely Stranded Flexible Copper Conductors — Multi-strand plain copper conductors for dynamic wind control
Primary dielectric / insulation	Cold-Resistant Cross-Linked Core Insulation — 0.6/1 kV numbered core insulation with Green/Yellow PE	**Continuous operating temperature**	−40…+90 °C (wind turbine nacelle, hub & tower duty)
Low-temperature torsion & cold bend	Verified cold-flex and torsion endurance across −40…+90 °C per IEC 60502-1 & ISO 9227 Salt-Spray Qualified Offshore/Onshore Wind Elastomer Specification	**Storage & transport temperature**	−40…+80 °C on export wooden/steel cable drum
Outer jacket / sheath protection	Cold, Oil & Salt-Mist Elastomer Outer Jacket — Durable outer sheath for onshore and offshore wind turbines	**Minimum bending radius**	6 × OD
Intermediate screen / separator / core layer	Cold-Resistant Cross-Linked Core Insulation — 0.6/1 kV numbered core insulation with Green/Yellow PE	**Oil, grease, ozone & UV resistance**	Resistant to wind turbine gearbox oil, hydraulic fluid, ozone and UV weathering per IEC 60502-1 & ISO 9227 Salt-Spray Qualified Offshore/Onshore Wind Elastomer Specification
Flame retardancy & smoke/halogen emission	Flame-retardant and environmental performance verified per IEC 60502-1 & ISO 9227 Salt-Spray Qualified Offshore/Onshore Wind Elastomer Specification	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	IEC 60502-1 & ISO 9227 Salt-Spray Qualified Offshore/Onshore Wind Elastomer Specification		

Sizes

3 standard constructions

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

Order designation	Configuration	Core / stranding	Outer Ø ≈ mm	Net weight ≈ kg/km	Max. pulling kN ≈	Min. bend R mm
0.6/1 kV Multi-Core Salt-Mist Wind Construction Schedule (−40…+90 °C) 3 sizes						
☐ **0.6/1 kV Multi-Core Sa 7G1.5 mm²**	**7G1.5 mm² (or 7C × 16 AWG)**	**IEC 60228 Class 5/6 / Class K Cu**	**11.4**	**215**	**2.4**	**70**
☐ **0.6/1 kV Multi-Core Sa 12G1.5 mm²**	**12G1.5 mm² (or 12C × 16 AWG)**	**IEC 60228 Class 5/6 / Class K Cu**	**14.8**	**345**	**4.1**	**90**
☐ **0.6/1 kV Multi-Core Sa 18G2.5 mm²**	**18G2.5 mm² (or 18C × 14 AWG)**	**IEC 60228 Class 5/6 / Class K Cu**	**19.6**	**680**	**9.8**	**120**

– Custom conductor cross-sections, core counts, pre-lugged tower kits and drum lengths available per IEC 60502-1 & ISO 9227 Salt-Spray Qualified Offshore/Onshore Wind Elastomer Specification.

Electrical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} Ω/km	Rating / Impedance	Operating temp.
7G1.5 mm² (or 7C × 16 AWG)	**13.30**	**0.6/1 kV (18 A)**	**−40…+90 °C**
12G1.5 mm² (or 12C × 16 AWG)	**13.30**	**0.6/1 kV (16 A)**	**−40…+90 °C**
18G2.5 mm² (or 18C × 14 AWG)	**7.98**	**0.6/1 kV (24 A)**	**−40…+90 °C**

– Every production length undergoes routine conductor DC resistance, AC high-voltage spark/dielectric and dimensional verification.

Standards and approvals

- IEC 60502-1 / ISO 9227 Compliant
- EN 10204 3.1 Factory Test Certificate
- CE, RoHS 2 (2011/65/EU) & REACH

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/flexible-multi-core-wind-control-power-cable-1kv

Typical values for this cable type, based on IEC 60502-1 & ISO 9227 Salt-Spray Qualified Offshore/Onshore Wind Elastomer Specification. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.