wind turbine drip-loop, tray & pitch control cable

Unscreened UL 1000V / IEC 0.6/1 kV

Unscreened UL 1,000 V & IEC 0.6/1 kV Dual-Standard Arctic (-40 °C Dyna

IEC 60502-1 / UL 1000V · 0.6/1 kV / 1,000 V · Wind turbine drip-loop, tray & pitch



IEC 60502-1 / UL 1000V | **0.6/1 kV / 1,000 V (-50 to +90 °C)** | **-40 °C Dynamic / -50 °C Static Outer**

Application

Unscreened UL 1,000 V & IEC 0.6/1 kV Dual-Standard Arctic (-40 °C Dynamic / -50 °C Static) Wind Control Cable (IEC 60502-1 / UL 1000V) engineered for 0.6/1 kV / 1,000 V wind turbine service across -50 to +90 °C (min. bend radius 6 × OD).

Typical uses: Wind Turbine Rotor Hub Pitch Control & Slip-Rings, Nacelle-to-Tower Multi-Core Drip-Loop Control Bundles, UL 2277 WTTC / TC-ER Nacelle & Tower Cable Trays, Blade De-Icing, Trace Heating & Aviation Obstruction Lights

Construction





Cross-section, not to scale

1. IEC 60228 Class 5 Bare Copper (2-37 Core
2. Dual-Standard 0.6/1 kV & UL 1000 V Insul
3. -40 °C Dynamic / -50 °C Static Outer She

Technical data

Typical values

Rated voltage / operating system	0.6/1 kV / 1,000 V (IEC 60502-1 0.6/1 kV & UL 758/2277 1,000 V Arctic Wind Control Specification)
Primary dielectric / insulation	Dual-Standard 0.6/1 kV & UL 1000 V Insulation — Cold-resistant cross-linked or thermoplastic numbered cores
Low-temperature torsion & cold bend	Verified cold-flex and torsion endurance across −50…+90 °C per IEC 60502-1 0.6/1 kV & UL 758/2277 1,000 V Arctic Wind Control Specification
Outer jacket / sheath protection	-40 °C Dynamic / -50 °C Static Outer Sheath — Black oil- and flame-retardant jacket for arctic wind turbines
Intermediate screen / separator / core layer	Dual-Standard 0.6/1 kV & UL 1000 V Insulation — Cold-resistant cross-linked or thermoplastic numbered cores
Flame retardancy & smoke/halogen emission	Flame-retardant and environmental performance verified per IEC 60502-1 0.6/1 kV & UL 758/2277 1,000 V Arctic Wind Control Specification
Standards	IEC 60502-1 0.6/1 kV & UL 758/2277 1,000 V Arctic Wind Control Specification
Core / conductor construction	IEC 60228 Class 5 Bare Copper (2-37 Cores) — Flexible plain copper control conductors (0.5–2.5 mm²)
Continuous operating temperature	−50…+90 °C (wind turbine nacelle, hub & tower duty)
Storage & transport temperature	−40…+80 °C on export wooden/steel cable drum
Minimum bending radius	6 × OD
Oil, grease, ozone & UV resistance	Resistant to wind turbine gearbox oil, hydraulic fluid, ozone and UV weathering per IEC 60502-1 0.6/1 kV & UL 758/2277 1,000 V Arctic Wind Control Specification
RoHS & REACH compliance	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant

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
Unscreened UL 1000V / IEC 0.6/1 kV Construction Schedule (−50…+90 °C) 3 sizes						
☐ **Unscreened UL 1000V 7G1.5 mm²**	**7G1.5 mm² (or 7C × 16 AWG)**	**IEC 60228 Class 5/6 / Class K Cu**	**11.4**	**215**	**2.4**	**70**
☐ **Unscreened UL 1000V 12G1.5 mm²**	**12G1.5 mm² (or 12C × 16 AWG)**	**IEC 60228 Class 5/6 / Class K Cu**	**14.8**	**345**	**4.1**	**90**
☐ **Unscreened UL 1000V 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 0.6/1 kV & UL 758/2277 1,000 V Arctic Wind Control 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 / 1,000 V (18 A)**	**−50…+90 °C**
12G1.5 mm² (or 12C × 16 AWG)	**13.30**	**0.6/1 kV / 1,000 V (16 A)**	**−50…+90 °C**
18G2.5 mm² (or 18C × 14 AWG)	**7.98**	**0.6/1 kV / 1,000 V (24 A)**	**−50…+90 °C**

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

Standards and approvals

- IEC 60502-1 / UL 1000V 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/unscreened-ul-1000v-iec-0-6-1kv-wind-control-cable

Typical values for this cable type, based on IEC 60502-1 0.6/1 kV & UL 758/2277 1,000 V Arctic Wind Control Specification. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.