wind turbine drip-loop, tray & pitch control cable

PVC/PVC UL/CSA 600V/1000V Torsion

PVC/PVC UL/CSA 600 V / 1,000 V & VDE Cold-Modified (±150°/m) Torsion-R

UL AWM 1000V / CSA / VDE · 600 V / 1,000 V · Wind turbine drip-loop, tray & pitch



UL AWM 1000V / CSA / VDE | **600 V / 1,000 V (-40 to +90 °C)** | **Black Oil/Cold/UV Modified PVC Jacke**

Application

PVC/PVC UL/CSA 600 V / 1,000 V & VDE Cold-Modified (±150°/m) Torsion-Resistant Wind Control Cable (UL AWM 1000V / CSA / VDE) engineered for 600 V / 1,000 V wind turbine service across -40 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. Class 5 / Class 6 Bare Copper (2-37 Core
2. Cold-Modified PVC Core Insulation (UL/CS
3. Black Oil/Cold/UV Modified PVC Jacket (-

Technical data

Typical values

Rated voltage / operating system	600 V / 1,000 V (UL 758 AWM 600 V/1,000 V, CSA C22.2 No. 210 & VDE 0285 Wind Torsion Specification)
Primary dielectric / insulation	Cold-Modified PVC Core Insulation (UL/CSA & VDE) — Number-coded modified PVC rated 600 V / 1,000 V
Low-temperature torsion & cold bend	Verified cold-flex and torsion endurance across −40…+90 °C per UL 758 AWM 600 V/1,000 V, CSA C22.2 No. 210 & VDE 0285 Wind Torsion Specification
Outer jacket / sheath protection	Black Oil/Cold/UV Modified PVC Jacket (-40 °C) — Engineered for ±150°/m yaw drip-loop torsion
Intermediate screen / separator / core layer	Cold-Modified PVC Core Insulation (UL/CSA & VDE) — Number-coded modified PVC rated 600 V / 1,000 V
Flame retardancy & smoke/halogen emission	Flame-retardant and environmental performance verified per UL 758 AWM 600 V/1,000 V, CSA C22.2 No. 210 & VDE 0285 Wind Torsion Specification
Standards	UL 758 AWM 600 V/1,000 V, CSA C22.2 No. 210 & VDE 0285 Wind Torsion Specification
Core / conductor construction	Class 5 / Class 6 Bare Copper (2-37 Cores, 0.5-70 mm²) — Extra-flexible plain copper conductors
Continuous operating temperature	−40…+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 UL 758 AWM 600 V/1,000 V, CSA C22.2 No. 210 & VDE 0285 Wind Torsion 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
PVC/PVC UL/CSA 600V/1000V Torsion Construction Schedule (−40…+90 °C) 3 sizes						
☐ **PVC/PVC UL/CSA 600V/10 7G1.5 mm²**	**7G1.5 mm² (or 7C × 16 AWG)**	**IEC 60228 Class 5/6 / Class K Cu**	**11.4**	**215**	**2.4**	**70**
☐ **PVC/PVC UL/CSA 600V/10 12G1.5 mm²**	**12G1.5 mm² (or 12C × 16 AWG)**	**IEC 60228 Class 5/6 / Class K Cu**	**14.8**	**345**	**4.1**	**90**
☐ **PVC/PVC UL/CSA 600V/10 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 UL 758 AWM 600 V/1,000 V, CSA C22.2 No. 210 & VDE 0285 Wind Torsion 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**	**600 V / 1,000 V (18 A)**	**−40…+90 °C**
12G1.5 mm² (or 12C × 16 AWG)	**13.30**	**600 V / 1,000 V (16 A)**	**−40…+90 °C**
18G2.5 mm² (or 18C × 14 AWG)	**7.98**	**600 V / 1,000 V (24 A)**	**−40…+90 °C**

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

Standards and approvals

- UL AWM 1000V / CSA / VDE 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/pvc-pvc-ul-csa-600v-1000v-torsion-wind-cable

Typical values for this cable type, based on UL 758 AWM 600 V/1,000 V, CSA C22.2 No. 210 & VDE 0285 Wind Torsion Specification. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.