wind turbine tower, DLO & blade grounding power cable

WK DLO-Torsion 2 kV

WK DLO-Torsion 2,000 V (UL RHH/RHW-2 & CSA R90) EPR/CPE Wind Turbine P

UL 44 RHH/RHW-2 / CSA R90 · 2,000 V · Wind turbine tower, dlo & blade grounding power



UL 44 RHH/RHW-2 / CSA R90 | **2,000 V (-40 to +90 °C)** | **Cold & Oil-Resistant TPE/CPE Outer S**

Application

WK DLO-Torsion 2,000 V (UL RHH/RHW-2 & CSA R90) EPR/CPE Wind Turbine Power Cable (UL 44 RHH/RHW-2 / CSA R90) engineered for 2,000 V wind turbine service across -40 to +90 °C (min. bend radius 6 × OD).

Typical uses: Wind Turbine Tower Vertical Power Feeders (Cu & Al), North American UL 2277 WTTC & 2 kV DLO Wind Turbines, IEC 61400-24 Wind Blade Lightning Down-Conductors, Nacelle Converter Busbars & Transformer Interconnects

Construction





Cross-section, not to scale

1. Fine Stranded Tinned/Bare Copper (14 AWG
2. 2000 V EP Rubber Insulation (RHH/RHW-2 /
3. Cold & Oil-Resistant TPE/CPE Outer Sheat

Technical data

Typical values

Rated voltage / operating system	2,000 V (UL 44 RHH/RHW-2 & CSA C22.2 No. 38 R90 WK DLO-Torsion 2,000 V Specification)	**Core / conductor construction**	Fine Stranded Tinned/Bare Copper (14 AWG-1111 kcmil) — High-flexibility stranded copper conductor for UL/CSA wind turbines
Primary dielectric / insulation	2000 V EP Rubber Insulation (RHH/RHW-2 / R90) — Ethylene-propylene rubber primary dielectric	**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 UL 44 RHH/RHW-2 & CSA C22.2 No. 38 R90 WK DLO-Torsion 2,000 V Specification	**Storage & transport temperature**	−40…+80 °C on export wooden/steel cable drum
Outer jacket / sheath protection	Cold & Oil-Resistant TPE/CPE Outer Sheath (-40 °C) — Heavy-duty jacket for yaw torsion and fixed tower runs	**Minimum bending radius**	6 × OD
Intermediate screen / separator / core layer	2000 V EP Rubber Insulation (RHH/RHW-2 / R90) — Ethylene-propylene rubber primary dielectric	**Oil, grease, ozone & UV resistance**	Resistant to wind turbine gearbox oil, hydraulic fluid, ozone and UV weathering per UL 44 RHH/RHW-2 & CSA C22.2 No. 38 R90 WK DLO-Torsion 2,000 V Specification
Flame retardancy & smoke/halogen emission	Flame-retardant and environmental performance verified per UL 44 RHH/RHW-2 & CSA C22.2 No. 38 R90 WK DLO-Torsion 2,000 V Specification	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	UL 44 RHH/RHW-2 & CSA C22.2 No. 38 R90 WK DLO-Torsion 2,000 V 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
WK DLO-Torsion 2 kV Construction Schedule (−40…+90 °C) 3 sizes						
☐ **WK DLO-Torsion 2 kV 1×95 / 4G25 Cu**	**1 × 95 mm² (or 4G25 mm² / 3/0 AWG)**	**IEC 60228 Class 5 Flexible Cu/SnCu**	**21.6**	**1,080**	**14.2**	**110**
☐ **WK DLO-Torsion 2 kV 1×185 / 4G50 Cu**	**1 × 185 mm² (or 4G50 mm² / 373 kcmil)**	**IEC 60228 Class 5 Flexible Cu/SnCu**	**27.8**	**1,960**	**27.5**	**140**
☐ **WK DLO-Torsion 2 kV 1×300 / 4G95 Cu**	**1 × 300 mm² (or 1×535/777 kcmil)**	**IEC 60228 Class 5 Flexible Cu/SnCu**	**34.6**	**3,120**	**45.0**	**175**

– Custom conductor cross-sections, core counts, pre-lugged tower kits and drum lengths available per UL 44 RHH/RHW-2 & CSA C22.2 No. 38 R90 WK DLO-Torsion 2,000 V Specification.

Electrical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} Ω/km	Rating / Impedance	Operating temp.
1 × 95 mm² (or 4G25 mm² / 3/0 AWG)	**0.21**	**2,000 V (320 A Cu)**	**−40…+90 °C**
1 × 185 mm² (or 4G50 mm² / 373 kcmil)	**0.11**	**2,000 V (495 A Cu)**	**−40…+90 °C**
1 × 300 mm² (or 1×535/777 kcmil)	**0.06**	**2,000 V (680 A Cu)**	**−40…+90 °C**

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

Standards and approvals

- UL 44 RHH/RHW-2 / CSA R90 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/wk-dlo-torsion-2kv-epr-cpe-wind-power-cable

Typical values for this cable type, based on UL 44 RHH/RHW-2 & CSA C22.2 No. 38 R90 WK DLO-Torsion 2,000 V Specification. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.