wind turbine tower, DLO & blade grounding power cable

WT-PX 0.6/1.0 kV Compact Al Tower

WT-PX 0.6/1.0 kV 3-Core / 4-Core (50–300 mm²) Compacted Sector Aluminu

IEC 60502-1 / IEC 60228 · 0.6/1.0 kV · Wind turbine tower, dlo & blade grounding power



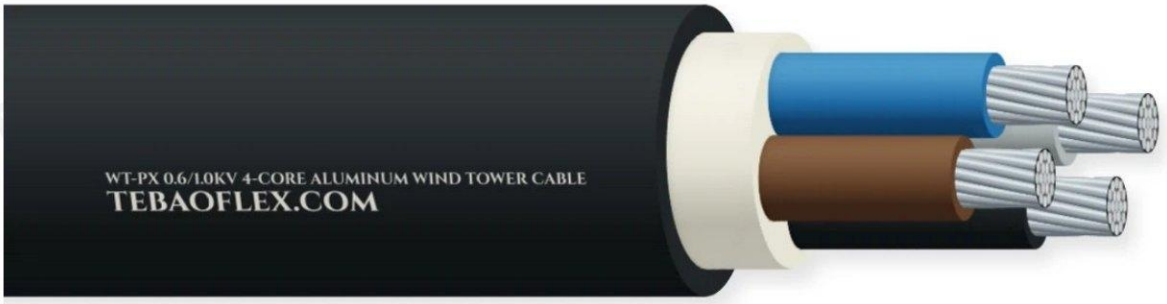
IEC 60502-1 / IEC 60228 | 0.6/1.0 kV (-40 to +90 °C) | HFFR Halogen-Free / PVC Outer Sheath

Application

WT-PX 0.6/1.0 kV 3-Core / 4-Core (50–300 mm²) Compacted Sector Aluminum XLPE/EPR HFFR Fixed Wind Tower Cable (IEC 60502-1 / IEC 60228) engineered for 0.6/1.0 kV wind turbine service across -40 to +90 °C (min. bend radius 10 × 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. Class 2 Compacted Aluminum Conductors (5
2. 0.6/1.0 kV XLPE / EPR Core Insulation
3. HFFR Halogen-Free / PVC Outer Sheath

Technical data

Typical values

Rated voltage / operating system	0.6/1.0 kV (IEC 60502-1 & IEC 60228 WT-PX Compacted Aluminum Multi-Core Wind Tower Specification)	**Core / conductor construction**	Class 2 Compacted Aluminum Conductors (50-300 mm²) — Three or four compacted aluminum cores reducing cable diameter
Primary dielectric / insulation	0.6/1.0 kV XLPE / EPR Core Insulation — 90 °C cross-linked polyethylene or EPR insulation	**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 & IEC 60228 WT-PX Compacted Aluminum Multi-Core Wind Tower Specification	**Storage & transport temperature**	−40…+80 °C on export wooden/steel cable drum
Outer jacket / sheath protection	HFFR Halogen-Free / PVC Outer Sheath — Flame-retardant jacket for vertical wind tower power distribution	**Minimum bending radius**	10 × OD
Intermediate screen / separator / core layer	0.6/1.0 kV XLPE / EPR Core Insulation — 90 °C cross-linked polyethylene or EPR insulation	**Oil, grease, ozone & UV resistance**	Resistant to wind turbine gearbox oil, hydraulic fluid, ozone and UV weathering per IEC 60502-1 & IEC 60228 WT-PX Compacted Aluminum Multi-Core Wind Tower Specification
Flame retardancy & smoke/halogen emission	Flame-retardant and environmental performance verified per IEC 60502-1 & IEC 60228 WT-PX Compacted Aluminum Multi-Core Wind Tower Specification	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	IEC 60502-1 & IEC 60228 WT-PX Compacted Aluminum Multi-Core Wind Tower 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
WT-PX 0.6/1.0 kV Compact Al Tower Construction Schedule (−40…+90 °C) 3 sizes						
☐ WT-PX 0.6 1×150 / 4×95 Al	1 × 150 mm² (or 4 × 95 mm² Al)	Class 2 Compacted Al / Class 5 AA8000	23.5	640	10.5	190
☐ WT-PX 0.6 1×240 / 4×150 Al	1 × 240 mm² (or 4 × 150 mm² Al)	Class 2 Compacted Al / Class 5 AA8000	28.4	980	16.8	230
☐ WT-PX 0.6 1×400 / 4×240 Al	1 × 400 mm² (or 4 × 240 mm² Al)	Class 2 Compacted Al / Class 5 AA8000	35.8	1,590	28.0	290

– Custom conductor cross-sections, core counts, pre-lugged tower kits and drum lengths available per IEC 60502-1 & IEC 60228 WT-PX Compacted Aluminum Multi-Core Wind Tower Specification.

Electrical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} Ω/km	Rating / Impedance	Operating temp.
1 × 150 mm² (or 4 × 95 mm² Al)	0.21	0.6/1.0 kV (315 A Al)	−40…+90 °C
1 × 240 mm² (or 4 × 150 mm² Al)	0.12	0.6/1.0 kV (435 A Al)	−40…+90 °C
1 × 400 mm² (or 4 × 240 mm² Al)	0.08	0.6/1.0 kV (590 A Al)	−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 / IEC 60228 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/wt-px-0-6-1-0kv-4-core-aluminum-wind-tower-cable

Typical values for this cable type, based on IEC 60502-1 & IEC 60228 WT-PX Compacted Aluminum Multi-Core Wind Tower Specification. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.