wind turbine tower, DLO & blade grounding power cable

(N)A2XH 0.6/1 kV Aluminum Tower

(N)A2XH 0.6/1 kV (4,000 V AC Test) DIN VDE 0276-604 Class 2 Aluminum 2

DIN VDE 0276-604 / IEC 60502-1 · 0.6/1 kV · Wind turbine tower, dlo & blade grounding



DIN VDE 0276-604 / IEC 60502-1 | 0.6/1 kV (-35 to +90 °C) | HM4 Halogen-Free Flame-Retardant Out

Application

(N)A2XH 0.6/1 kV (4,000 V AC Test) DIN VDE 0276-604 Class 2 Aluminum 2XI1 XLPE / HM4 LSZH Wind Tower Cable (DIN VDE 0276-604 / IEC 60502-1) engineered for 0.6/1 kV wind turbine service across -35 to +90 °C (min. bend radius 12 × 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 Stranded Aluminum Conductor (25-
2. 2XI1 Cross-Linked Polyethylene (XLPE) In
3. HM4 Halogen-Free Flame-Retardant Outer S

Technical data

Typical values

Rated voltage / operating system	0.6/1 kV (DIN VDE 0276-604 & IEC 60502-1 (N)A2XH 0.6/1 kV Halogen-Free Aluminum Tower Specification)	**Core / conductor construction**	Class 2 Stranded Aluminum Conductor (25-300 mm² RM) — DIN VDE 0295 Class 2 circular stranded aluminum reducing tower weight
Primary dielectric / insulation	2XI1 Cross-Linked Polyethylene (XLPE) Insulation — 90 °C XLPE dielectric tested at 4,000 VAC	**Continuous operating temperature**	−35…+90 °C (wind turbine nacelle, hub & tower duty)
Low-temperature torsion & cold bend	Verified cold-flex and torsion endurance across −35…+90 °C per DIN VDE 0276-604 & IEC 60502-1 (N)A2XH 0.6/1 kV Halogen-Free Aluminum Tower Specification	**Storage & transport temperature**	−40…+80 °C on export wooden/steel cable drum
Outer jacket / sheath protection	HM4 Halogen-Free Flame-Retardant Outer Sheath — Low-smoke zero-halogen polyolefin jacket for fixed tower cleats	**Minimum bending radius**	12 × OD
Intermediate screen / separator / core layer	2XI1 Cross-Linked Polyethylene (XLPE) Insulation — 90 °C XLPE dielectric tested at 4,000 VAC	**Oil, grease, ozone & UV resistance**	Resistant to wind turbine gearbox oil, hydraulic fluid, ozone and UV weathering per DIN VDE 0276-604 & IEC 60502-1 (N)A2XH 0.6/1 kV Halogen-Free Aluminum Tower Specification
Flame retardancy & smoke/halogen emission	Flame-retardant and environmental performance verified per DIN VDE 0276-604 & IEC 60502-1 (N)A2XH 0.6/1 kV Halogen-Free Aluminum Tower Specification	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	DIN VDE 0276-604 & IEC 60502-1 (N)A2XH 0.6/1 kV Halogen-Free Aluminum 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
(N)A2XH 0.6/1 kV Aluminum Tower Construction Schedule (−35…+90 °C) 3 sizes						
☐ **(N)A2XH 0.6/1 kV Alumi 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**
☐ **(N)A2XH 0.6/1 kV Alumi 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**
☐ **(N)A2XH 0.6/1 kV Alumi 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 DIN VDE 0276-604 & IEC 60502-1 (N)A2XH 0.6/1 kV Halogen-Free Aluminum 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 kV (315 A Al)**	**−35…+90 °C**
1 × 240 mm² (or 4 × 150 mm² Al)	**0.12**	**0.6/1 kV (435 A Al)**	**−35…+90 °C**
1 × 400 mm² (or 4 × 240 mm² Al)	**0.08**	**0.6/1 kV (590 A Al)**	**−35…+90 °C**

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

Standards and approvals

- DIN VDE 0276-604 / IEC 60502-1 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/n-a2xh-0-6-1kv-aluminum-wind-tower-cable

Typical values for this cable type, based on DIN VDE 0276-604 & IEC 60502-1 (N)A2XH 0.6/1 kV Halogen-Free Aluminum 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.