



power connection cable series

(N)TMCHXOEU

Single-Core LSZH Wind-Turbine MV Cable

DIN VDE 0250-813 0.6/1 kV & 1.8/3 kV $\pm 150^\circ/\text{m}$ torsion-resistant LSZH wind power cable



(N)TMCHXOEU Wind Loop 1C

0.6/1 kV · 1.8/3 kV · 3.6/6 kV

 $\pm 150^\circ/\text{m}$ Torsion + LSZH ('HX')

Application

(N)TMCHXOEU Single-Core LSZH Wind-Turbine Power Cable (0.6/1 kV, 1.8/3 kV & 3.6/6 kV; 35 mm² to 400 mm²) engineered per DIN VDE 0250-813 and IEC 61400 for generator-to-converter and nacelle-to-tower loop power transmission—combining.

Typical uses: Onshore & Offshore Wind Turbine Nacelle Drip Loops, 690 V / 1140 V / 3.3 kV Wind Generator Stator/Rotor Leads, Full-Scale & DFIG Converter-to-Transformer Bus Bundles, Tower-Wall Vertical Drop Power Distribution, Nacelle Yaw Motor & Pitch System Power Jumpers

Construction



Cross-section, not to scale

- 1 Torsion-optimized Class 5 / Class 6 copper conductor
- 2 Sliding separator tape + inner semiconducting layer ('C')
- 3 3G13 Ethylene Propylene Rubber (EPR) dielectric
- 4 HX-OEU Halogen-Free, Oil- & Flame-Resistant elastomer sheath

Technical data

Typical values

Rated voltage tiers (U ₀ /U)	0.6/1 kV · 1.8/3 kV · 3.6/6 kV (U _{max} 1.2 / 3.6 / 7.2 kV AC)	Routine AC test voltage	4.0 kV (0.6/1) · 6.5 kV (1.8/3) · 11.0 kV (3.6/6) for 5 minutes
Max. DC resistance @ 20 °C	0.206 Ω/km (95) · 0.129 Ω/km (150) · 0.0817 Ω/km (240) · 0.0654 Ω/km (300)	Free-air ampacity (30 °C)	375 A (95) · 500 A (150) · 570 A (185) · 680 A (240) · 785 A (300)
Continuous conductor temp.	+90 °C continuous operation	Short-circuit temperature	+250 °C (up to 5 s)
Ambient temperature range	-40 °C to +80 °C (dynamic loop torsion & fixed tower)	Torsion rating	±150° / m over free-hanging nacelle drip loop (≥ 15,000 cycles)
Min. bend radius	4 × OD (static tower cleats) · 6 × OD (dynamic nacelle loop)	Max. vertical tensile load	15–20 N / mm ² of copper cross-section
Bunched flame & LSZH	IEC 60332-3-24 Cat C · IEC 60754-1/2 (0 % halogen) · IEC 61034-2	Hydraulic & gearbox oil	EN 60811-404 hot mineral & synthetic turbine oil resistant ('OEU')
Ozone, UV & salt mist	Ozone proof per DIN VDE 0207-20 and marine salt-fog resistant	Standards	DIN VDE 0250-813 · IEC 60502-1 · UL 2277 WTTTC option available

Sizes

6 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

VDE designation	Conductor & voltage	Outer Ø ≈ mm	Weight ≈ kg/km	Max. DC R Ω/km	Air 30°C A
1.8/3 kV (U _{max} 3.6 kV) Single-Core Torsion-Resistant LSZH Wind Cables 6 sizes					
☐ (N)TMCHXOEU 1×70 1.8/3kV	1 × 70 mm ² Torsion Cl.5 Cu · 1.8/3 kV	19.6	820	0.2770	305
☐ (N)TMCHXOEU 1×95 1.8/3kV	1 × 95 mm ² Torsion Cl.5 Cu · 1.8/3 kV	21.8	1,070	0.2060	375
☐ (N)TMCHXOEU 1×150 1.8/3kV	1 × 150 mm ² Torsion Cl.5 Cu · 1.8/3 kV	25.8	1,610	0.1320	500
☐ (N)TMCHXOEU 1×185 1.8/3kV	1 × 185 mm ² Torsion Cl.5 Cu · 1.8/3 kV	28.0	1,950	0.1080	570
☐ (N)TMCHXOEU 1×240 1.8/3kV	1 × 240 mm ² Torsion Cl.5 Cu · 1.8/3 kV	31.4	2,510	0.0817	680
☐ (N)TMCHXOEU 1×300 1.8/3kV	1 × 300 mm ² Torsion Cl.5 Cu · 1.8/3 kV	34.6	3,110	0.0654	785

– Also stocked in 35 mm², 50 mm², 120 mm² and 400 mm², as well as 0.6/1 kV (H07RN-F / NSGAFÖU wind upgrade) and 3.6/6 kV ratings.

Standards and approvals

- ✓ DIN VDE 0250-813 Compliant
- ✓ IEC 60332-3-24 & IEC 60754-2
- ✓ IEC 61400 Wind Qualified

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/single-core-lszh-wind-turbine-mv-cable



Typical values for this cable type, based on DIN VDE 0250-813 / IEC 60502-1 / UL 2277 (Wind Turbine Tray Cable). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.