wind turbine drip-loop, tray & pitch control cable

RT 113 / RT 123 PUR Pitch Control

RT 113 / RT 123 300/500 V (UL/CSA 600 V) Class 6 TMPU PUR High-Torsion

DIN VDE 0285 / UL 600V · 300/500 V (UL 600 V) · Wind turbine drip-loop, tray & pitch



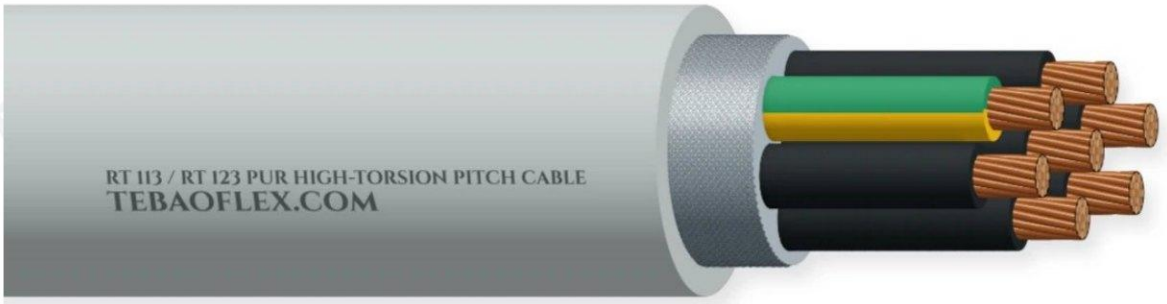
DIN VDE 0285 / UL 600V | 300/500 V (UL 600 V) (-50 to +90 °C) | TMPU Halogen-Free PUR Outer Sheath (

Application

RT 113 / RT 123 300/500 V (UL/CSA 600 V) Class 6 TMPU PUR High-Torsion (±450°/0.5m) Wind Pitch Control Cable (DIN VDE 0285 / UL 600V) engineered for 300/500 V (UL 600 V) wind turbine service across -50 to +90 °C (min. bend radius 5 × 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 6 Ultra-Fine Bare Copper (2-25 Cor
2. Special TPE Low-Temperature Core Insulat
3. Low-Friction Wrap & Screen (RT 113 / RT
4. TMPU Halogen-Free PUR Outer Sheath (-50

Technical data

Typical values

Rated voltage / operating system	300/500 V (UL 600 V) (DIN VDE 0285 & UL/CSA 600 V RT 113 (Unscreened) / RT 123 (Screened) ±450°/0.5m Pitch Specification)
Primary dielectric / insulation	Special TPE Low-Temperature Core Insulation — Thermoplastic elastomer insulation remaining supple at -50 °C
Low-temperature torsion & cold bend	Verified cold-flex and torsion endurance across −50…+90 °C per DIN VDE 0285 & UL/CSA 600 V RT 113 (Unscreened) / RT 123 (Screened) ±450°/0.5m Pitch Specification
Outer jacket / sheath protection	TMPU Halogen-Free PUR Outer Sheath (-50 °C) — Oil-, microbe- and abrasion-resistant polyurethane jacket
Intermediate screen / separator / core layer	Low-Friction Wrap & Screen (RT 113 / RT 123) — Unscreened (RT 113) or tinned copper screen (RT 123) for ±450°/0.5m torsion
Flame retardancy & smoke/halogen emission	Flame-retardant and environmental performance verified per DIN VDE 0285 & UL/CSA 600 V RT 113 (Unscreened) / RT 123 (Screened) ±450°/0.5m Pitch Specification
Standards	DIN VDE 0285 & UL/CSA 600 V RT 113 (Unscreened) / RT 123 (Screened) ±450°/0.5m Pitch Specification
Core / conductor construction	Class 6 Ultra-Fine Bare Copper (2-25 Cores) — IEC 60228 Class 6 extra-fine copper strands (0.25–2.5 mm²)
Continuous operating temperature	−50…+90 °C (wind turbine nacelle, hub & tower duty)
Storage & transport temperature	−40…+80 °C on export wooden/steel cable drum
Minimum bending radius	5 × OD
Oil, grease, ozone & UV resistance	Resistant to wind turbine gearbox oil, hydraulic fluid, ozone and UV weathering per DIN VDE 0285 & UL/CSA 600 V RT 113 (Unscreened) / RT 123 (Screened) ±450°/0.5m Pitch 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
RT 113 / RT 123 PUR Pitch Control Construction Schedule (−50…+90 °C) 3 sizes						
☐ **RT 113 7G1.5 mm²**	**7G1.5 mm² (or 7C × 16 AWG)**	**IEC 60228 Class 5/6 / Class K Cu**	**11.4**	**215**	**2.4**	**70**
☐ **RT 113 12G1.5 mm²**	**12G1.5 mm² (or 12C × 16 AWG)**	**IEC 60228 Class 5/6 / Class K Cu**	**14.8**	**345**	**4.1**	**90**
☐ **RT 113 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 DIN VDE 0285 & UL/CSA 600 V RT 113 (Unscreened) / RT 123 (Screened) ±450°/0.5m Pitch 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**	**300/500 V (UL 600 V) (18 A)**	**−50…+90 °C**
12G1.5 mm² (or 12C × 16 AWG)	**13.30**	**300/500 V (UL 600 V) (16 A)**	**−50…+90 °C**
18G2.5 mm² (or 18C × 14 AWG)	**7.98**	**300/500 V (UL 600 V) (24 A)**	**−50…+90 °C**

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

Standards and approvals

- DIN VDE 0285 / UL 600V 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/rt-113-rt-123-pur-high-torsion-pitch-cable

Typical values for this cable type, based on DIN VDE 0285 & UL/CSA 600 V RT 113 (Unscreened) / RT 123 (Screened) ±450°/0.5m Pitch Specification. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.