wind turbine drip-loop, tray & pitch control cable

300/500 V Cold-Flex PVC Torsion

300/500 V TI2 Cold-Flexible PVC (±150°/m at -35 °C) Multi-Core Wind Tu

EN 50525 / VDE 0285 · 300/500 V · Wind turbine drip-loop, tray & pitch control cable



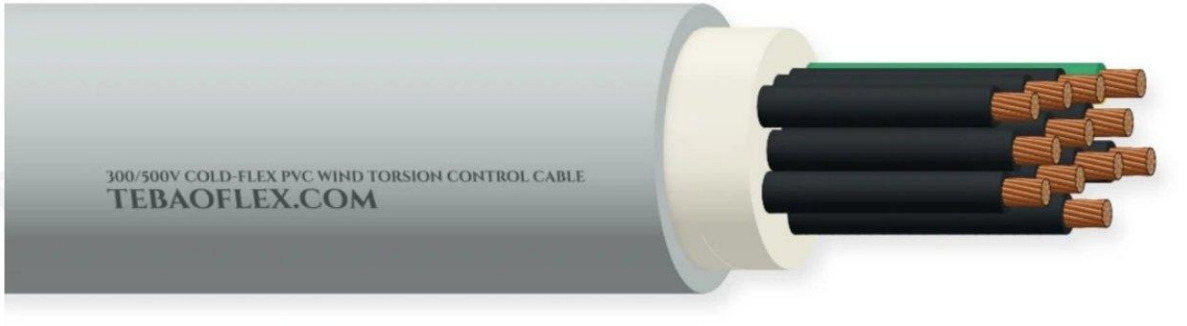
EN 50525 / VDE 0285 | 300/500 V (-40 to +70 °C) | Grey Cold-Flexible PVC Outer Sheath

Application

300/500 V TI2 Cold-Flexible PVC (±150°/m at -35 °C) Multi-Core Wind Turbine Torsion Control Cable (EN 50525 / VDE 0285) engineered for 300/500 V wind turbine service across -40 to +70 °C (min. bend radius 6 × 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 5 Flexible Bare Copper (2-41 Cores
2. TI2 Cold-Flexible PVC Numbered Insulatio
3. Grey Cold-Flexible PVC Outer Sheath (±15

Technical data

Typical values

Rated voltage / operating system	300/500 V (EN 50525 & DIN VDE 0285 TI2 Cold-Flexible PVC (±150°/m) Wind Control Specification)
Primary dielectric / insulation	TI2 Cold-Flexible PVC Numbered Insulation — Special low-temperature PVC core insulation with Green/Yellow PE
Low-temperature torsion & cold bend	Verified cold-flex and torsion endurance across −40…+70 °C per EN 50525 & DIN VDE 0285 TI2 Cold-Flexible PVC (±150°/m) Wind Control Specification
Outer jacket / sheath protection	Grey Cold-Flexible PVC Outer Sheath (±150°/m) — Rated for -35 °C dynamic torsion and -40 °C static installation
Intermediate screen / separator / core layer	TI2 Cold-Flexible PVC Numbered Insulation — Special low-temperature PVC core insulation with Green/Yellow PE
Flame retardancy & smoke/halogen emission	Flame-retardant and environmental performance verified per EN 50525 & DIN VDE 0285 TI2 Cold-Flexible PVC (±150°/m) Wind Control Specification
Standards	EN 50525 & DIN VDE 0285 TI2 Cold-Flexible PVC (±150°/m) Wind Control Specification
Core / conductor construction	Class 5 Flexible Bare Copper (2-41 Cores) — Finely stranded plain copper conductors (0.75–25 mm²)
Continuous operating temperature	−40…+70 °C (wind turbine nacelle, hub & tower duty)
Storage & transport temperature	−40…+80 °C on export wooden/steel cable drum
Minimum bending radius	6 × OD
Oil, grease, ozone & UV resistance	Resistant to wind turbine gearbox oil, hydraulic fluid, ozone and UV weathering per EN 50525 & DIN VDE 0285 TI2 Cold-Flexible PVC (±150°/m) Wind Control 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
300/500 V Cold-Flex PVC Torsion Construction Schedule (−40…+70 °C) 3 sizes						
☐ 300/500 V Cold-Flex PV 7G1.5 mm²	7G1.5 mm² (or 7C × 16 AWG)	IEC 60228 Class 5/6 / Class K Cu	11.4	215	2.4	70
☐ 300/500 V Cold-Flex PV 12G1.5 mm²	12G1.5 mm² (or 12C × 16 AWG)	IEC 60228 Class 5/6 / Class K Cu	14.8	345	4.1	90
☐ 300/500 V Cold-Flex PV 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 EN 50525 & DIN VDE 0285 TI2 Cold-Flexible PVC (±150°/m) Wind Control 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 (18 A)	−40…+70 °C
12G1.5 mm² (or 12C × 16 AWG)	13.30	300/500 V (16 A)	−40…+70 °C
18G2.5 mm² (or 18C × 14 AWG)	7.98	300/500 V (24 A)	−40…+70 °C

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

Standards and approvals

- EN 50525 / VDE 0285 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/300-500v-cold-flex-pvc-wind-torsion-control-cable

Typical values for this cable type, based on EN 50525 & DIN VDE 0285 TI2 Cold-Flexible PVC (±150°/m) Wind Control Specification. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.