



Wind Turbine Towers

Main components and cables' features



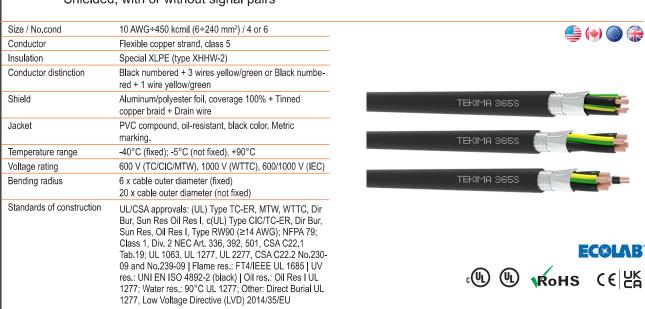
Cables for Wind Turbine Towers

Reliable, Power, Control, and Communication Solutions for Wind Energy Applications



Low capacity VFD 3xG or 1xG cables TC-ER, CIC, MTW, WTTC Direct Burial, Sun Res

Shielded, with or without signal pairs



SERIES 8110 8110S

Power and Control Tray Cable TC-ER-HL, CIC, MTW, WTTC, AWM Direct Burial, Sun Res, Hazardous Locations

Jnshielded or shielded

Size / No.cond	18 AWG÷450 kcmil (1÷240 mm²) / 2÷25	👙 (🙌 🔘 🥋
Conductor	Flexible copper strand, class 5	
Insulation	TKblend®-R	
Conductor distinction	Black numbered + yellow/green (beginning from 3 conductors). Other options availabe.	
Shield	Tinned copper braid, nom. coverage 85%	TEKIMA 8110
Jacket	PVC compound, oil-resistant, RAL 7001 gray or black color. Metric marking.	TEMIN ON
Temperature range	+90°C (dry conditions), +75°C (wet conditions) -40°C (fixed); -5°C (not fixed)	TEKIMA 8110S
Voltage rating	600 V* (TC/CIC/MTW), 1000 V (AWM/WTTC), 600/1000 V (IEC)	TEKIMA S110
Bending radius	4 x cable outer diameter (15 x cable outer diameter for non-cyclical mobile uses)	TEKIMA 8110S
Standards of construction	UL/CSA approvals: (UL) Type TC-ER-HL (18 AWG-1000 kcmil), MTW, WTTC, Dir Bur, Sun Res, Oil Res I, c(UL) Type CIC/TC-ER (18 AWG-4/0 AWG), Dir Bur, Sun Res, Oil Res I, cURus AWM Style 21179, AWM I/II A/B; Class 1, Div.1 or Div.2 NEC Art. 336, 392, 501; CSA C22.1 Tab.19; UL 1581, UL 758, UL 1277, UL 1063, UL 2277, CSA C22.2 No.230-09 e No. 239-09 Flame res.:	EC⊗L AB°
	FT1, FT4, IEC 60332-1-2, IEC 60332-3-24 UV res.:	
	UNI EN ISO 4892-3 (grigio/gray), UNI EN ISO 4892-2 (black) Other: Low Voltage Directive (LVD) 2014/35/EU	ROHS CELL

^{*} Tray Cable 2 kV are available upon request.



Cables for Wind Turbine Towers

Reliable, Power, Control, and Communication Solutions for Wind Energy Applications

High temperature multi-norm silicone cables

Unshielded or shielded

Size / No.cond	20 AWG÷8 AWG (0,5÷10 mm²) / 2÷25
Conductor	Flexible copper strand, class 5
Insulation	Silicone
Conductor distinction	HD 308 S2 colored or black numbered + yellow/green beginning from 6 conductors.
Shield	Tinned copper braid, nom. coverage 85%
Jacket	Silicone, orange or black color. Metric marking.
Temperature range	+150°C (UL/CSA), +180°C (IEC) -60°C
Voltage rating	600 V (UL/CSA), 450/750 V (IEC)
Bending radius	5 x cable outer diameter (12 x cable outer diameter for non-cyclical mobile uses)
Standards of construction	UL/CSA approvals: UL 758, UL 1581, AWM Style 4476, CSA AWM II A/B Flame res.: FT1, IEC 60332-1-2 Other: Low Voltage Directive (LVD) 2014/35/EU









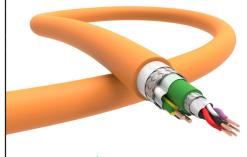


Multi-conductor «Hybrid» cables

Unshielded or shielded

The integration of the essential components such power, control and fiber optic necessary for the operation of a latest generation electric motor, involves the aggregation in a single cable of the power supply conductors and those necessary for digital communications.

Combining very different electrical quantities and extremely reliable electrical parameters in a single product represents today the new goal in the construction of hybrid cables.

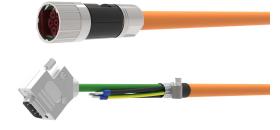












Signal, communication, control and power in a single preassembled cable. You can now receive your cable assembly certified, pre-connectorized, tested and ready to be installed as per your specifications.

