

CAT5e Ethernet Cable for Wind Turbines

This cable is designed for wind power applications. It transmits data from the top to the bottom of wind power plants and is suitable for torsional stress areas.



Product Overview

High-Performance Wind Energy Connectivity

This CAT5e Ethernet cable is engineered specifically for the demanding environments of wind turbines. It features a robust construction that ensures reliable data transmission up to 100MHz while maintaining resistance to low temperatures, oil, and external electromagnetic interference. Designed for both fixed and occasional movement applications, it meets international standards for industrial network connectivity.

Technical Specifications

Max Signal Transmission

100 MHz
Frequency

Characteristic Impedance	100 Ω
Test Voltage	1000 V/min
Insulation Resistance	$\geq 500 \text{ M}\Omega/\text{m}$

Temperature Ranges

Operating Temperature Ranges

Application	PVC (°C)	PUR (°C)
Fixed	-40 to 70	-40 to 80
Occasional Movement	-5 to 60	-20 to 70

Construction

Materials

- Conductor: Stranded copper wire
- Insulation: PE
- Shield: AL / Mylar screen and tinned copper wire braid
- Jacket: PUR

Compliance & Standards

Flame Resistance

IEC60332-1

Standards	IEC61156-5, ANSI/TIA-568-C.2, EN50173, ISO/IEC11801
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Mechanical Properties

Minimum Bending Radius

- Fixed Application: 8D
- Occasional Movement: 10D