Amphenol®

Wind Energy
At Amphenol we understand the wind power industry has unique interconnect needs. We know wind turbines are in service for more than 20 years in some of the harshest environments on the planet, whether on-land or off-shore.

Amphenol’s products withstand:

- Vibration
- Salt Spray
- Humidity
- Dust
- EMI/EMC
- Temperature Extremes

Whether you need power connectors, signal connectors, backplane connectors, rugged data cables and switches, complete cable assemblies, fiber optic connectors and assemblies, or system attachments, we have the right solution for your wind power application.

We also know that you need a partner with a global footprint of service and support. Amphenol has over 85 facilities in 30 countries and due to our culture of cost control and operating discipline we are able to prosper in all economic climates.

Amphenol’s background in producing high reliability connectors for the harshest environments on Earth and in Space gives us the unique experience needed to produce extremely reliable, cost effective, industry standard products for the wind energy industry. If you have the need for a customized solution our engineers will work with yours to produce the right customized interconnects for your application.

Amphenol connectors are approved by UL/CSA, VDE and other international standards.

Since 1932 Amphenol has been the interconnect technology provider of choice to industry leading companies throughout the world. With a broad and diverse product portfolio, Amphenol is able to develop the right solutions for our customers across the diverse segments of the rapidly expanding electronics market.

With dedicated employees working at 85+ facilities in more than 30 countries, Amphenol has the unique advantage of having both diversified global reach while still being a focused organization. Our focus comes from our entrepreneurial management team dedicated to specific markets and regions.

www.amphenol-industrial.com
With RADSOK®, Amphenol provides a new generation of power contacts. RADSOK’s hyperbolic construction offers many advantages including contact coverage of 65%. This allows more power to pass through a given connector size or the use of a smaller sized connector for a given power level – saving space and weight.

Possible uses include the interconnection from generator to inverter and inverter to transformer station.

• Up to 1000 Amps per contact
• Vibration safe
• Self cleaning contacts
• Up to 75% quicker connection
• Extremely reliable
• Cost effective stamped & bent technology

Applications: Connecting generators, inverters and transformer stations.
Efficient installation of power cables.

Amphenol’s industrial Rectangular Connector Series provides a universal high-reliability modular interconnect system. Our rectangular C146 connectors are tailor made for harsh industrial environments and are designed specifically to resist salt mist, vibration, temperature extremes, and EMI. With modular inserts for high power, data, RJ45, optical, pneumatic, fiber optic, coaxial and USB. Covered in a solid full-metal shell with a robust locking system, the Amphenol Rectangular Series is a perfect solution for motion and servo control.

In addition, our proven M23, M40, and ACA-B circular connectors complete the series for motion and servo control.

Applications: Pitch control systems, servo motion control, rack and panel connections, and internal power supplies.
Amphenol provides a wide range of signal connectors for harsh environment applications.

From our industry standard threaded M12 connectors to our quick-mating Pulse – Plus connector we have a solution for every application.

In addition, we can produce filtered versions of our signal connectors to eliminate RF interference to guarantee trouble free data transfer. Plastic and full metal versions are available.

Applications: Connects sensors for wind speed, temperature, vibration, pressure and wind direction.

- **SCREW VENT M12 SERIES**
  Waterproofing screws for industrial applications
  ALTW

- **C091 SERIES**
  Professional industrial circular connectors
  AIIO

- **5015 SERIES**
  Over 300 insert arrangements from 1 to 104 circuits possible
  AIIO

- **C16 – 3 SERIES**
  Universal high – performance signal and power connector
  AIIO

- **PULSE – PLUS**
  Easy quick-locking M12 connector system
  Alden

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Amphenol’s extensive range of fiber optic connectors and cable assemblies provide interconnect solutions for all situations and environments including: butt joint or expanded beam technology, single or multi-channel, single-mode or multi-mode fibers.

Amphenol supplies the complete interconnect assembly, including the connector, termination, fiber and optional accessories. Optimal for data communication in Wind Power where EMI / EMP protection is needed.

**Application:** Data transfer between sensors in the blades, between nacelle and base station, and for communication to the control center.

**PRODUCT focus**

**HMATWO HERMAPHRODITIC FIBER OPTIC CONNECTOR**
- Multi-mode fibers, dual wavelength, 1-4 way
- AFSI

**TFOCA II**
- Extreme harsh environment fiber optic series
- AFSI

**M 28876 SERIES**
- Multi-channel fiber optic connector with Quickloc cable captivation system
- AFSI

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Amphenol’s high performance connectors, switches and antenna systems for data networks guarantee uninterrupted performance in the harshest environments on the planet.

Amphenol data products are designed to provide the best interconnect solution in extreme conditions including: vibration, temperature extremes, salt mist, and EMI-RFI interference.

Applications: Data transfer between nacelle control unit and plant control.
- Data distribution between wind generator and plant control.
- Service interface for maintenance.

RJ 45 FIELD SERIES
Bayonett coupling, IP 67

USB SELF CLOSING CAP
Uses standard USB cables. IP 67

MULTI BAND ANTENNA SERIES
High performance with compact size

Amphenol is a world leader in cable assemblies for industrial applications. Our bus bar power distribution systems allow for more compact packaging and optimize air flow.

Amphenol termination blocks allow easy long term connections. RADSOK based grounding systems decrease installation time by 75% and can be connected with one hand.

Applications: Power cables between generator and transformer.
- Fiber optic connections between sensors and control units.
- Motion control cables and internal power supplies.

CABLE PROTECTION SYSTEM
Line of products to protect cable harnesses in virtually any environment

POWER BOSS SERIES
Overmolded power distribution system

BUSBAR
High density integrated system

TERMINAL BLOCKS
Wire-to-Wire and Wire-to-PCB

GROUND MATE SYSTEM
Highly effective, cost saving grounding system, RADSOK based
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