

Cable and connector solutions for wind turbines



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Some of our cable offerings for your wind turbine.
See the back cover for our crucial SKINTOP® strain relief.

OLFLEX® CONTROL COLD

600V, FT-4 approved control cable designed for wind turbines with wide temperature range: -50°C to 90°C. UL/CSA approved for -40°C crush impact resistance, and -50°C cold bend approved. Rugged black outer jacket with multi-stranded black inner conductors (numbered) and advanced environmental fatigue resistance. (See back cover for more details)

OLFLEX® 190

600V control cable broadly used in wind turbines. Temperature range: -10°C to 105°C. Rugged, highly flexible, gray outer jacket with multi-stranded black inner conductors (numbered). Advanced environmental fatigue resistance.

OLFLEX® TRAY II

600V, FT-4 approved control cable designed for wind turbines with wide temperature range: -25°C to 90°C. UL/CSA approved for -25°C crush impact resistance. Rugged black, outer jacket with multi-stranded black inner conductors (numbered) Advanced environmental fatigue resistance and UL TC-ER approval.

OLFLEX® VFD Series

1000V approved Variable Frequency Drive cable with an operating temperature range of -25°C to -105°C. Breakthrough protection by "Lapp Surge Guard," which disperses voltage spikes, harmonics, and power distortions.

UNITRONIC® 300

300V PLTC control and signal cable with an operating temperature range of -25°C to -105°C, offers the benefits of a reduced OD and features extraordinary mechanical stress and oil resistance.

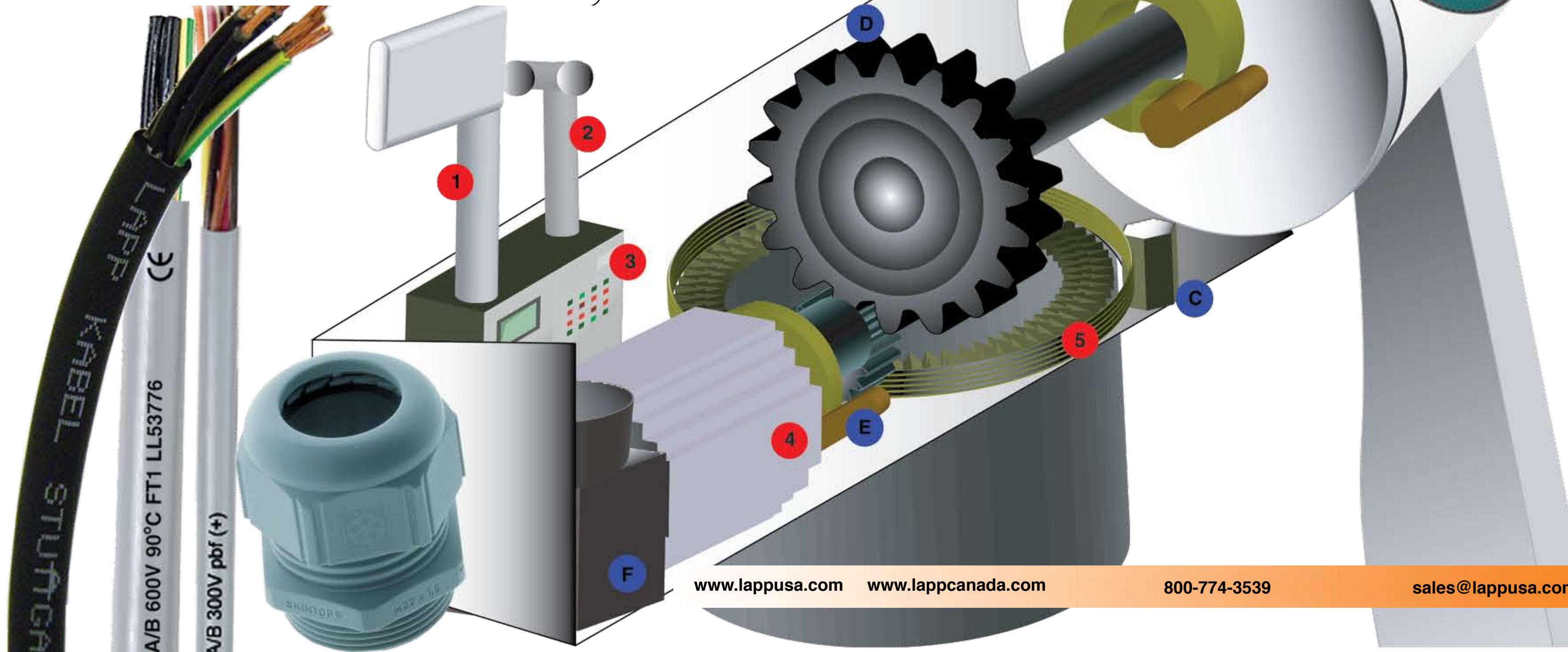
Lapp products: Inside the Nacelle & Tower

Lapp offers a variety of quality products for your Wind Turbine components:

- | | | |
|----|-------------|---|
| 1. | Wind Vane: | OLFLEX® 190, Control Cold, Tray II, UNITRONIC® 300 |
| 2. | Anemometer: | OLFLEX® 190, Control Cold, Tray II |
| 3. | Controller: | OLFLEX® 190, Control Cold, Tray II, UNITRONIC® 300 |
| 4. | Generator: | OLFLEX® 190, Control Cold, Tray II. Power DLO |
| 5. | Yaw Drive: | OLFLEX® 190, VFD series Cables, Tray II, UNITRONIC® 300 |

Visit our website or please feel free to call us for information on our Power DLO, cable track, connector, strain relief & a variety of other solutions. www.lappusa.com and www.lappcanada.com

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|----|-------------------------------------|
| A. | Pitch Drive |
| B. | Shaft Lock |
| C. | Yaw Motor |
| D. | Gear Box (Hi and Low Speeds) |
| E. | Transformer and/or Generator cooler |



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 **LAPP GROUP**

SKINTOP®

Non-metallic liquid tight strain relief

Vital termination point protection from vibration fatigue and environmental elements.

- International patented advanced lock mechanism prevents separation
- Easy to install
- Relative low-cost per unit
- NPT, PG and Metric sizes in stock for immediate delivery, including sizes for DLO cables.
- Impact resistant at -20° C
- Exceeds NEMA 6P (IP 68- 5 Bar)



**Simple
Secure
Dependable
Durable**

sales@lappusa.com

 **LAPP GROUP**

OLFLEX® CONTROL COLD

Sometimes it's OK to be left out in the cold

- Designed to withstand rigorous applications subjected to frigid conditions, and featuring a multitude of North American approvals.

- Passes UL/CSA cold impact test at -40°C, and -50°C cold bend test.
- UL Type TC-ER/ CSA TC (Exposed Run) approved for use without conduit.
- UL Type MTW
- Wet Rating UL 83
- Class 1, Div 2 per NEC art. 336, 292, 501
- CSA-AWM I/II A/B FT4
- Oil Resistance II

