

Product Summary: LP Fiberglass Covered Wire is constructed with high-purity Oxygen-Free Copper (OFC) or Electrical Grade Aluminum conductor, wrapped with non-alkali fiberglass yarn and impregnated with high-grade insulating varnish (Silicone, Epoxy, or Polyurethane). Designed for heavy-duty motors, dry-type transformers, welding machines, and traction equipment requiring extreme thermal resistance, mechanical strength, and moisture protection.

Class F / H / C Rating

Thermal ratings up to 155°C, 180°C, 200°C, and 220°C for extreme heat environments.

Non-Alkali Glass Fiber

E-glass fiber yarn ensures high tensile strength, zero moisture absorption & high dielectric limit.

Varnish Options

Impregnated with Epoxy, Modified Silicone, or Polyimide varnish for superior bonding.

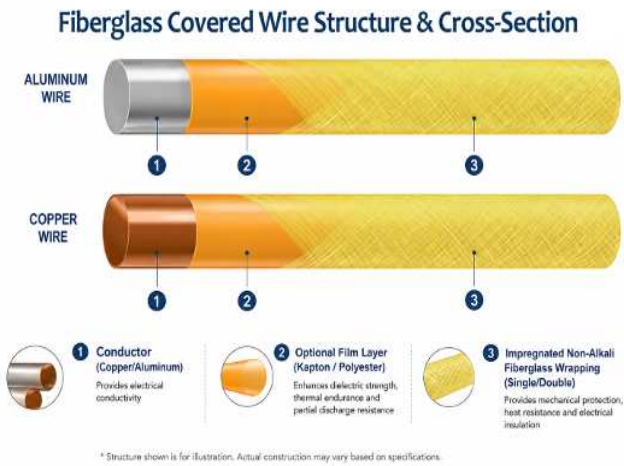
Dual Insulation Types

Available in pure Fiberglass Wrapping or Film + Fiberglass (Mylar/Polyimide) combinations.

TECHNICAL SPECIFICATIONS

Parameter	Specification Details
Conductor Material	Oxygen-Free Copper (Cu ≥ 99.95%) / EC Grade Aluminum
Conductor Shape	Round Wire & Rectangular Wire (Flat)
Round Wire Dia.	1.00 mm – 6.00 mm
Rectangular Size	Thickness (a): 0.80 – 8.00 mm Width (b): 2.00 – 22.00 mm
Thermal Class	Class F (155°C), Class H (180°C), Class C (200°C / 220°C)
Insulation Thickness	Single Fiberglass (0.10–0.25mm) Double Fiberglass (0.25–0.40mm)
Breakdown Voltage	Single Cover: ≥ 300V – 500V Double Cover: ≥ 600V – 1200V+
Standards	IEC 60317-0-4 / GB/T 7672 / NEMA MW 41-C / RoHS

PRODUCT STRUCTURE & VISUALS



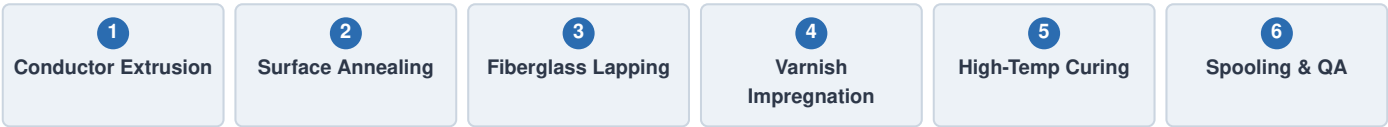
KEY PERFORMANCE ADVANTAGES

- **Extreme Thermal Resistance:** Continuous thermal stability at 180°C–220°C without insulation degradation or carbonization.
- **High Mechanical Toughness:** Glass fiber reinforcement offers supreme abrasion, overload, and cut-through resistance.
- **Superior Chemical & Moisture Barrier:** Varnish-impregnated glass matrix prevents moisture penetration and oil degradation.
- **Compact Winding Fill Factor:** Uniform insulation thickness allows tight slot filling in heavy-duty motor stators.
- **High Breakdown Voltage Option:** Combine with Polyester / Polyimide (Kapton) film for multi-layer dielectric protection.

PRIMARY APPLICATIONS

- **Dry-Type Transformers:** High-temperature H-class power transformers and phase-shifting reactors.
- **Heavy Duty & Traction Motors:** Electric locomotive motors, crane motors, and mining machinery.
- **Industrial Welding Machines:** High-current transformer windings in heavy arc welders.
- **Explosion-Proof Electrical Units:** Special motors and coils operating in high-heat chemical plants.

6-STAGE PRECISION MANUFACTURING PROCESS



PACKAGING & EXPORT LOGISTICS

- **Spool Specifications:** PT-25, PT-45, PT-90, PT-200, and Heavy Wooden Spools (50kg – 200kg per spool).
- **Moisture-Proof Packaging:** Plastic film vacuum wrap + desiccant + protective corrugated cardboard layer.
- **Seaworthy Outer Box:** Fumigation-free solid plywood cases strapped with steel bands for international shipping.



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| Fiberglass Covered Copper Wire | Fiberglass Covered Aluminum Wire | Film & Fiberglass Wrapped Wire | Class H 180°C Glass Fiber Wire |
| Class C 220°C Glass Fiber Wire | Double Fiberglass Covered Rectangular Wire | | |

Need Custom Insulation Thickness or Instant Quotation?

LP Industry provides custom conductor dimensions, insulation materials, and free sample testing.

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