



High Voltage Power Cables

High Voltage Power/Utility Transmission Cable

Engineered for High Voltage Power Delivery

High Voltage Power Cable is engineered for reliable transmission of electrical power in demanding **utility, industrial, and infrastructure environments**. Designed for applications above 35,000V and extending into extra-high-voltage transmission ranges, these cables deliver **efficient long-distance power transfer** while maintaining exceptional safety and durability.

Constructed with **robust conductor materials and advanced insulation systems** such as XLPE or TR-XLPE, the cable incorporates metallic shielding and optional armor to control electrical stress and protect against environmental damage. These cables are ideal for underground installations, substations, renewable energy systems, and heavy industrial facilities where high reliability and minimal power loss are critical.

Standard Trailer Features & Benefits

High-Capacity Copper or Aluminum Conductors

Designed to transmit large amounts of electrical energy efficiently with minimal resistive loss over long distances.

Advanced XLPE or TR-XLPE Insulation Systems

Provides excellent dielectric strength and long-term thermal stability required for high-voltage operation.

Semiconductive Screening and Metallic Shielding

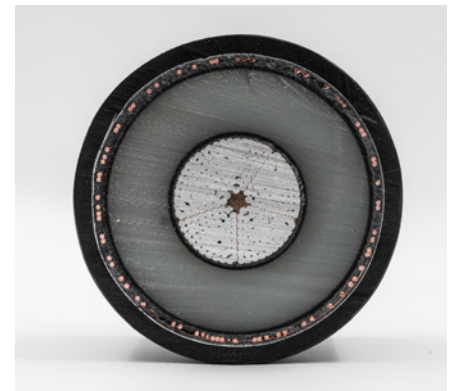
Controls electrical stress within the cable structure and provides a safe path to conduct fault currents to ground.

Heavy-Duty Jacket and Optional Armoring

Protects the cable from mechanical damage, moisture, corrosion, and environmental exposure in underground, tunnel, and industrial installations.

Large Conductor Size Capability

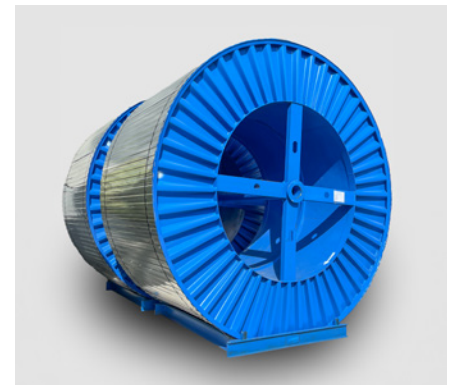
Supports conductor sizes up to approximately 3500 mm² (7000 kcmil equivalent), enabling high-capacity power transmission in large infrastructure projects.



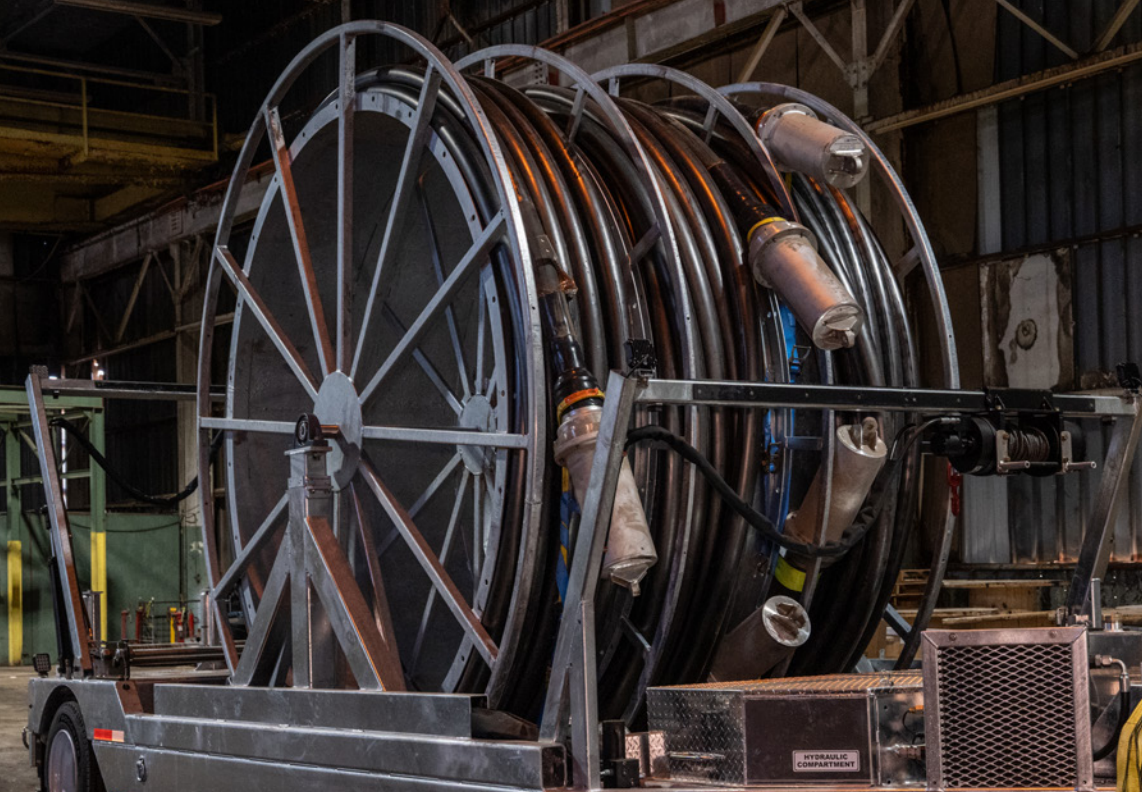
Aluminum



Copper



Low MOQ and Lead-time



Designed for Critical Power Infrastructure

High Voltage Power Cables provide utilities and large industrial facilities with a robust underground and infrastructure-ready solution for transmitting large amounts of electrical power safely and efficiently. Designed to support modern grid expansion, renewable integration, and urban underground transmission networks, these cables deliver reliability and environmental protection.

Typical Voltage Classes

- 46 kV
- 69 kV
- 135 kV
- 230 kV
- Up to 500 kV
- (depends on configuration)*

Conductor Materials

- Copper
- Aluminum

Insulation Options

- XLPE
- TR-XLPE (lower voltage classes)

Jacketing Options

- HDPE
- PVC

Shielding Options

- Concentric neutral copper wires
- Metallic tape shielding

Armoring Options

- Lead sheath
- Corrugated aluminum sheath

Available with Terminations

Ratings & Characteristics

Voltage Rating	46kV – 500kV (depends on design)
Conductor Temperature	Determined by insulation system
Insulation Type	XLPE / TR-XLPE
Industry Standards	IEC 60840, IEC 60228, ICEA S-108-720, AEIC CS9

Your Single Source. From Design to Implementation.

**FLEXIBLE CABLE OPTIONS
(5KV-46KV)**

**MEDIUM & HIGH
VOLTAGE ASSEMBLIES**

TESTING SERVICES



Headquarters
9600 Valley View Rd.
Macedonia, Ohio 44056

USA 800-521-7935

