

POWER TECHNOLOGY **LEADER**

Product Catalog



» Brief History & INDEX

- Jan. 2024** - Completed development of overhead transmission line 500kV HVDC fittings.
- Dec. 2022** - Received ISO 45001 Occupational health & safety management system certificate
- Jun. 2014** - Selected as an excellent partner company of KEPCO
- Dec. 2011** - Received ISO 9001 Quality management system certificate
- Dec. 2011** - Received ISO 14001 Environmental system certificate
- Nov. 2011** - Corporate Reorganisation - Cheryong Industrial Co., Ltd., Cheryong Electric Co., Ltd.
- Nov. 2008** - Completed development of overhead transmission line 345kV fittings.
- May 2004** - Completed development of overhead transmission line 765kV fittings.
- Dec. 2001** - Named one of KEPCO's Most Admired Companies for Power Distribution Technology
- Jan. 2000** - Completed development of overhead transmission line 154kV fittings.
- Jan. 1988** - Renamed as Cheryong Industrial Co., Ltd.
- Dec. 1986** - Establishment of Gyeongin Cable Development Co., Ltd.

Transmission Line

- Hardware of Polymer Jumper Insulators
- Hardware of Insulator String for 154kV, 345kV, 765kV, 500kV HVDC Transmission Line
- Stock bridge damper for Power Transfer Increase Aluminum Conductors
- Anti-vibration Damper
- Hardware of Attaching Arrester for 154kV, 345kV Transmission Line
- Spacer Damper for 154kV, 345kV, 765kV, 500kV HVDC
- Spacer for Spin Type for 154kV
- Armor grip type suspension clamp for Power Transfer Increase Aluminum Conductors
- Compression type dead-end clamp for Power Transfer Increase Aluminum Conductors

Indirect Live working for Distribution Line

- Jumper line Sleeves
- Insulation Cover
- Branch Link Cover
- Dead-end Cap
- Bindless Line Post Insulator Cover
- Bushing Terminal Insulation Cover
- Dead-End clamp Insulation Cover
- Temporary insulated End-cap
- Compact Insulation reinforcement Cover

Others

- Cable Clamp & Accessories for 22.9kV Aerial Insulated Triplex and Single-core Power Aluminum Cable
- OPGW Joint-box
- Anti-vibration Damper (Suspension bridge)

» Transmission Line

Power transmission refers to a series of processes that transport power to large capacity facilities, such as remote factories and substations. Power transmission facilities require not only steel towers but also fittings and devices suitable for withstanding ultra-high voltage currents.

As a leader in transmission lines in Korea, we have solutions for 154kV, 345kV, 765kV as well as 500kV HVDC. In addition, we can customize it for different transmission voltages.



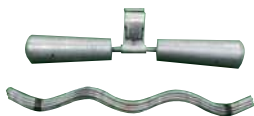
Hardware of Polymer Jumper Insulators For Transmission Line

- Metal fittings to fix and install polymer jumper insulators on jumper lines
- Lightweight and effectively simplified replacing process
- Used new material to develop fixed jumper support
- Prevents transverse failure of jumper lines



Hardware of Insulator String for 154kV, 345kV, 765kV, 500kV HVDC Transmission Line

- Easy installation and fixation of insulators and ground wire devices for transmission line
- All corners are rounded to maximize track protection and to prevent corona
- Made of hot galvanized and provides excellent corrosion resistance
- Composition : Preformed amor rod, clevis link, socket clevis, arcing horn, socket eye, etc



Stock bridge damper for High Capacity Aluminum Conductors

- Customized for high capacity transmission lines
- Optimized with metal fittings to absorb vibrating energy of wires caused by external wind
- Composition: Damper weight, wire clamp, messenger wire, amor rod



Anti-vibration Damper(Transmission line)

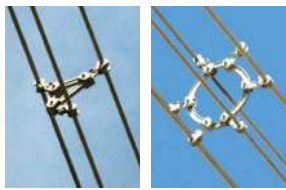
- Vacuum-resistant, poly-resonance damper that prevents wire damage due to wind vibration of power transmission lines
- Prevents fixing of open circuits and creates multiple resonance points (5R)
- Small and lightweight compared to the existing product (6.4 kg → 4.5 kg)
- Characteristics: Verification on vibration energy dissipation capacity (6.5 to 7.5 times more)

» Transmission Line



Hardware of Attaching Arrester for 154kV, 345kV Transmission Line

- A lightning arrester installing device for 154kV and 345kV transmission lines
- Protects wires from lightning and provides stable support on the body of lightning rod



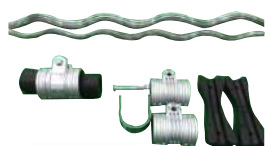
Spacer Damper for 154kV, 345kV, 765kV, 500kV HVDC

- Suppresses vibration while maintaining a gap between wires
- Prevents corona
- Highly corrosion-resistant dampers (except aluminum and stainless steel). (3B, 4B, 6B)
- Design can be customized for customer requirements



Spacer for Spin Type for 154kV

- A device to maintain constant distance between small conductors
- Maximize prevention of galloping vibration with its free-spin connecting wire



Armor grip type suspension clamp for High Capacity Aluminum Conductors for 154kV, 345kV, 765kV, 500kV HVDC

- Heat-resistant Insert Rubber can be applied up to 210°C of wire temperature
- Metal fittings that support the suspension insulator vertically with wires
- Decreases clamp temperature by applying armor rods



Compression type dead-end clamp for High Capacity Aluminum Conductors for 154kV, 345kV, 765kV, 500kV HVDC

- Horizontally connects high capacity power towers and jumper wires
- Superb durability of both electrical and mechanical performance
- No impact on ageing of high temperature wires

» Other Materials

- Arcing Horn For 154kV, 345kV, 765kV, 500kV HVDC Transmission Line,
- Cleat for Phase Isolation of 154kV Underground Electric Power Cable
- Fall Protection Device for Tower Transmission Line



» Indirect Hot-Line Tools

Majority of lineman work on high voltage equipment on daily basis. Some work may be performed when the line is de-energized but there are many cases where they have to perform live-line maintenance. This is to avoid any power outage in the area - which is both inconvenient and inefficient for end-customers.



Jumper line Sleeves

- Custom designs are applicable depending on wire diameters
- Optimized for compressing connection between aluminum lines



Insulation Cover

- Specifically used for aluminum wires at 22.9kV-y high voltage distribution line
- Revised the size of inner body to best optimize quality
- Easy installation
- Available for all wires under 240SQ



Branch Link Cover

- Purpose is to insulate exposed charging terminals of live clamps and open wires
- No distinction between front and back
- Easy operation
- Available for all wires under 240SQ



Dead-end Cap

- Provides complete insulation (verified through accredited tests)
- Optimized 3D packing design to prevent any fall out
- Available for all wires under 160SQ



Bindless Line Post Insulator Cover

- Fixes and supports wire onto line post insulators
- Excellent design to prevent bird related accidents
- Prevents wire fall out during open circuit
- Available for some wires such as 58SQ, 95SQ, 160SQ

» Indirect Live Working



Branch Sleeves for Aluminum Conductors

- Compression connection between Al and copper wire is possible where tension is not applied
- Connect the AL low pressure intermediate wire, the transformer secondary lower wire, the inlet wire, and the Cu ground wire



Bushing Terminal Insulation Cover

- Perfectly insulates live parts of HV bushing on a polemount transformer
- It is an incision type that surrounds the primary bushing insulator wings to prevent power outages caused by algae



Dead-End clamp Insulation Cover

- Insulates connection bracket of the polymer suspension insulator and wedge clamp
- Actualizing two-people work down to one-person job
- Available for some wires such as 58SQ, 95SQ, 160SQ



I A type I



I B type I

Temporary Insulated End-cap

- Ever first application in Korea
- Assembled at the end of an exposed wire
- Shows warning light when in live-line status



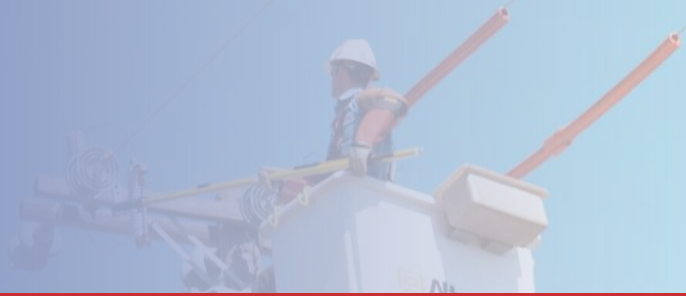
Compact Insulation reinforcement Cover

- Insulates exposed wires ; after being stripped for uninterrupted power supply task
- Significantly reduce working hours
- Completely blocks rainwater and intrusion of foreign substances
- Available for all wires under 240SQ

» Other Materials

- Bindless Line Post Insulator Cover for hot-stick working
- Temporarily Rack for Indirect Live Working





» Others



Suspension Clamp

Cable Clamp & Accessories for 22.9kV Aerial Insulated Triplex and Single-core Power Aluminum Cable

- Prevents open circuits and ground fault related accidents
- Simplification of line wires
- Optimizing work efficiency by connecting wires and hinges.
 - AITC : Aerial Insulated Triplex Core
 - AISC : Aerial Insulated Single Core



Dead-End Clamp



22.9kV Aerial Insulated Triplex and Single-core Power Aluminium Cable



22.9kV Insulation cable installation site

» Other Standard

- AITC95D, AITC95RS, AITC95RC / AISC95D, AISC95RS, AITSC95RC
- AITC240D, AITC240RS, AITC240RC



OPGW Joint-box

- Can be easily implemented
- Appropriately mixed with rubber packing, molycoats and grease
- Completely waterproof, corrosion-free
- High mechanical



Anti-vibration Damper (Suspension bridge)

- Installed on cables at a bridge tower
- Protects the cable from damage and shaking
- Also has a safety rope to prevent any movement of a weight

» Delivery performance





Always be with Customers



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