Coupler: High Voltage to 15kV

UEE 15kV high-voltage cable couplers are typically used in open-pit mining applications, where they reliably and conveniently connect shovels and other equipment to electrical distribution systems up to 15kV.

Features

- A pilot pin arrangement that connects last and disconnects first, along with a ground connection that disconnects last and connects first, ensuring that faults are phase-to-ground, not phase-to-phase.
- A conductive ground screen system that directs fault currents to ground, eliminating the potential for phase-to-phase faults.
- Durable insulators that resist cracks or other defects that can lead to electrical tracking.
- UEE patented Collet System which uniformly compresses phase wires, equally distributing pressure and maximizing surface contact for a low-resistance and thermally efficient connection.
- An entrance fitting, consisting of a cable clamp and seal arrangement, that will provide a secure cable grip and watertight seal.
- A quality casted aluminum body, making the coupler lighter and durable.
- Weatherproof.
- An eye-bolt locking system that provides a quick and easy to use securing scheme. This system is not sensitive to dirt contamination and can be use for separating coupler bodies.
- No exposed phase conductors in the bell, eliminating the need for cavity filling.
- Silver-plated copper pin and socket assemblies designed for optimum current and heat transfer properties with low insertion resistance and minimal oxidation.
- All stainless steel and bronze hardware for longevity and reliability.
- Replaceable parts.
- Padlockable.

Cable Termination

UEE 15kV high-voltage couplers rely on phase seal adapter termination kits to control stress concentrations of shielded cables. Phase seal adapter kits consist of reusable cylindrical components that slide onto the phase wires before the phase conductors are attached. Phase seal adapter kits must be properly sized for the intended cable, but do not require special installation tools.

All 15kV models include a phase seal adapter kit.
Standards

- Designed to CAN/CSA-M421.

Options

- Polyester Powder-Coated Paint.
- Interlocking Feature.
- Pilot Wire Connector up to 2/0 Wire.

Rating and Cable Dimensions

All 15kV high-voltage, quick connect couplers are rated to 15kV at sea level. Actual wire size and cable dimensions are required to correctly configure the coupler components. Standard pilot fittings accommodate up to #4 wire, with optional pilot fittings accommodating up to 2/0 wire.

<table>
<thead>
<tr>
<th>Current Rating</th>
<th>Phase Wire Size</th>
<th>Cable Termination</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amperes</td>
<td>AWG/MCM</td>
<td>Method</td>
</tr>
<tr>
<td>up to 440</td>
<td>#2 - 300</td>
<td>Phase Seal Adapter</td>
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</tbody>
</table>

Accessories

- Coupler Lever.
- Skid Mounting.
- Cable Clamp.
- Cable Handler.
- Tool Kit.

Configurations

- Male Coupler.
- Female Coupler.
- Female Flange.
- Female Junction.
- Various Male and Female Termination Covers, per customer specifications.

For additional technical details or specifications, call 1-250-497-5254 or visit www.uee.com.