



Medium Voltage Cable Coupler Systems – Shielded & Unshielded 5kV, 400A or 8kV, 250A & 400A



5kV, 400A Male Cable Mount Unshielded Coupler
Shown with silver plated contacts and powder coated body, both optional features



8kV, 400A Male Cable Mount Shielded Coupler
Shown with standard copper contacts and optional powder coated body.

Typical Applications

- Connections of draglines/shovels/drills in minesite applications
- Connection of tunnel boring machines
- Connection of container port cranes
- Couplers suitable for use in wet, muddy, dusty, high altitude, or underground environments

Features and Benefits

- Compatible with all other couplers of North American design using the three bolt connection system
- Lightweight cast aluminum body components that provide strength and coupler durability
- MCS manufactured strain relief entrance fitting, self centering, superior prevention of water ingress
- Individual machined phase insulators made of high dielectric polymer
- Non-corrosive stainless steel and brass hardware
- Powder coated body components (optional)
- Shielded couplers are more lightweight than others available on the market
- Silver plated contacts (optional)
- Multiple phase connection options including mechanical connection (set screw), compression connection, or silver solder connection (see photo)

Electrical Ratings & Standards

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|---------------|-------------------------|-------------------------------|
| • 5kV Coupler | Voltage: 5,000 Volts AC | Current: 400 Amps |
| • 8kV Coupler | Voltage: 8,000 Volts AC | Current: 250 Amps or 400 Amps |
- Development Tested to Std. IEEE386-1995 and IEEE48-1996
 - Where switchgear mounted couplers are required, MCS couplers match requirement of CSA C22.2 No.31-04
 - Manufactured to meet IP67H standard

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Medium Voltage Cable Coupler Systems Accessories 5kV, 400A or 8kV, 250A & 400A



Shown Above: Connection Options

- Compression Connection (top)
- Mechanical Screw Connection
- Solder Connection (bottom)



Shown Above: 8kV, 250A Female Junction Box, Unshielded

- Split main body allows for easy access to internal wiring
- Junction boxes with female/female connection allow for all cable mounted couplers to be males, eliminating “wrong end out” while reeling out cables in the field



Shown Above: MCS Manufactured 8kV, 400A long body Cable Mounted Couplers mated to Female Equipment Mount Couplers with Mounting Elbow. Paint applied by customer to denote conductor size and which equipment is powered by each line.



Cable Termination Kits specifically created for coupler application (above)



Phase Contact Tools specifically created for ease of coupler installation