

## Reliable, Water-Tight, Performance

Patton & Cooke Co. has been designing and manufacturing cable couplers since 1966. From Chile's pit mines operating at 15,000 feet of elevation, to the subterranean realm of St. Gotthard — the longest railway tunnel in the world — demanding environments rely on Patton & Cooke couplers to power essential equipment. Patton & Cooke couplers have become the International Standard for powering Cruise Ships while docked — the largest ships requiring up to 2000 Amps at 11,000 Volts. Patton & Cooke are also the only US Navy approved coupler for connecting Naval Vessels while docked. For dredging applications, using electric power can reduce operating costs, increase available power to motors and pumps and reduce your greenhouse gas emissions. Patton & Cooke couplers provide a fast and safe means for *making the connection!*



Typical operating environment for cable couplers



### FEATURES:

- Medially-positioned grounded surface running through the insulator plate to channel ground fault current should the insulation system fail
- One ground and one isolated ground check
- Polyester powder-coating (optional)
- Front-end serviceable contacts for in-field repairs
- Silica sand filled thermo-resin (non-EPDM) fire-retardant insulator
- Individually threaded phase insulator tubes
- Locking type stems to prevent torsional conductor damage
- Marine grade stainless steel hardware
- Accepts conductors to 500 MCM (250mm<sup>2</sup>) and diameters up to 3.5" (90mm)
- Highly chemical resistant Hypalon™ gasketing
- Silver-plated male and female phase contacts
- Non externally-threaded bell-housing
- Non-metallic strain relief cable clamping inserts
- Compressing-type cable seals on entrance fitting
- Provision for padlocking or key interlock mounting (optional)
- Partial discharge extinction voltages not less than 7kV
- 3-bolt or 90 degree connection feature
- Includes live-end cover
- IP65 Rated

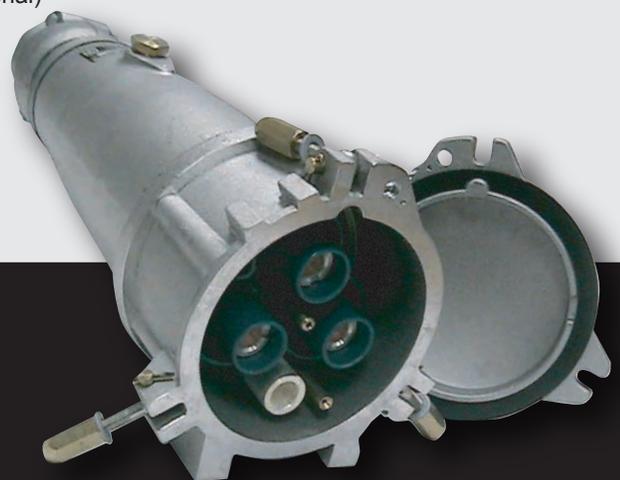
### BENEFITS:

- Easy, on-site, front-end maintenance
- Fast and positive coupling and uncoupling
- Weatherproof covers
- Designed for superior coupler life
- Reduced installation time
- Industry-wide compatibility
- One person operation

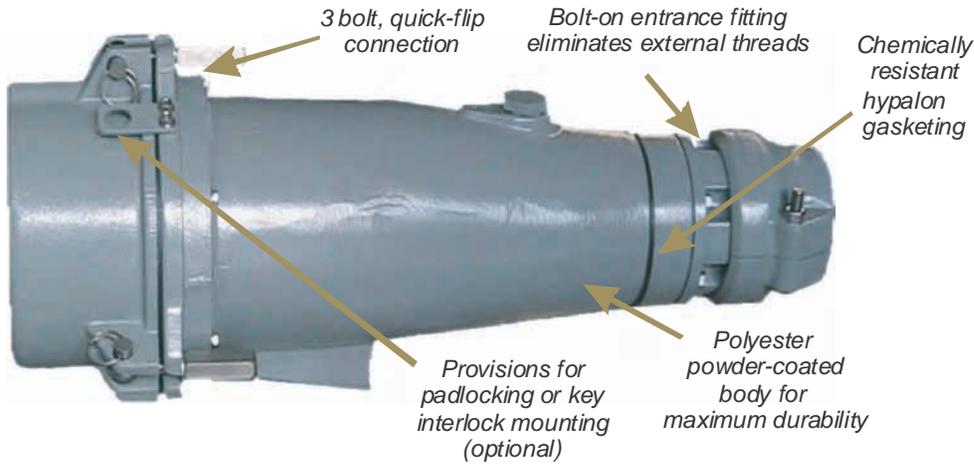
### ELECTRICAL DATA:

Coupler voltage class	15.0kV
1 minute dry withstand (AC)	50.kV
6 hour dry withstand (AC)	35.0kV
15 minute dry withstand (DC)	75.0kV
Basic Impulse level (BIL)	95.0kV
Corona extinction voltage (BIL)	13.0kV
Short Circuit fault level	38 kA

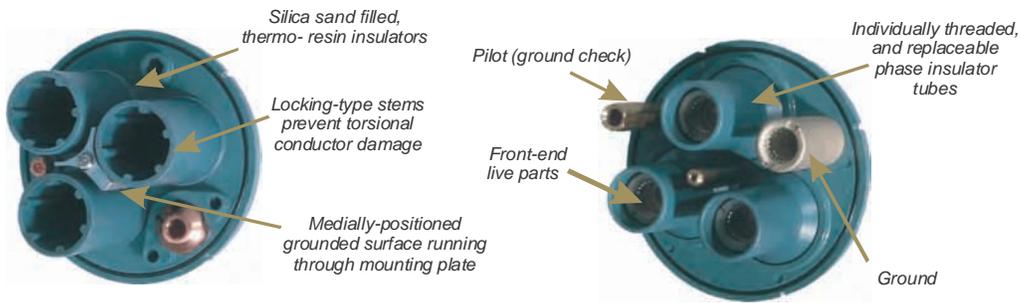
\*Data in accordance with IEEE 48



## BODY DESIGN FEATURES



## INSULATOR FEATURES

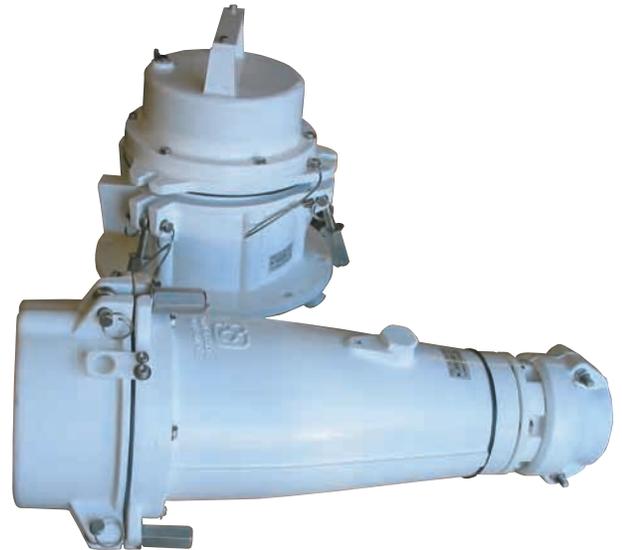


## ENTRANCE FITTING FEATURES



\* To ensure maximum protection against moisture and contamination, Patton & Cooke recommends the use of Potting Compound (not included)

Patton & Cooke also offer 600Volt, 600/1100 Volt, and 5/8kV couplers, for lower voltage dredging applications.



## HOW TO ORDER

When ordering the Patton & Cooke 15kV coupler, please specify:

- P&C catalog numbers
- Cable type,
- Cable size
- Cable diameter.

\*For cable mounted couplers, entrance fitting kits must be purchased separately according to your specific cable outside diameter.

**Mailing Address:**  
100-7795 128th Street  
Surrey, BC V3W 4E6



**Tel:** 1.604.591.5374  
**Toll Free (N.A only):** 1.866.591.5374  
**Fax:** 1.604.591.3505  
**Email:** [promos@pattonandcooke.com](mailto:promos@pattonandcooke.com)

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