



# PATTON & COOKE CO.

*Meeting your high voltage electrical needs.*



[www.pattonandcooke.com](http://www.pattonandcooke.com)

## OUR PLANT

Patton & Cooke has a modern 30,000 square foot plant in Surrey, a rapidly growing suburb of Vancouver, BC. Our location is ideal, we're situated in the heart of Canada's gateway to the Pacific Rim and only minutes from the United States border.

Our plant has Computer Aided Design and Manufacturing (CAD/CAM), large-scale fabrication and assembly, and epoxy powder coating facilities. Quality assurance processes and equipment, including our high voltage test lab and precision measuring equipment are maintained to exacting standards.

Patton & Cooke's office and plant staff work hand in hand to ensure that your orders are processed and manufactured in the quickest and most efficient manner.



## MINING

Mines all over the world are increasingly relying on Patton & Cooke for a wide range of high voltage electrical equipment. On all major continents, Patton & Cooke delivers vital power, above and below ground, no matter what the mining conditions or the terrain.

In this demanding environment, equipment designed and manufactured by Patton & Cooke has proven to be among the safest and most dependable in the world.

We're proud of our 55+ years of experience as manufacturers of such industry staples as trailing cable couplers, electrical enclosures, splitter boxes, junction boxes, cable accessories, pilot and ground wire monitoring systems.

Patton & Cooke also helps our customers install, operate and maintain our products and provide valuable in-field training. Such support is an important part of the world-wide reputation we enjoy for rugged and dependable products, backed by skilled and responsive in-field service.

Patton & Cooke's focus has remained the same throughout the growth of the company - to develop and manufacture high voltage equipment with a commitment to quality products at competitive prices.

With increasing sales throughout Canada, the United States, Latin America, Australia, Europe, the Middle East and Asia, our high voltage equipment has become a leading name in the industry in open pit and underground mines.





## OUR PRODUCTS

Trailing cable couplers are our most sought-after product. Our trailing cable couplers distribute electrical power to mining machinery from draglines to pumps, with power ratings up to 25 kV, 650 Amps.

Electrical and mine maintenance personnel know how a weak link in a system can greatly affect productivity. To solve problems of costly down-time, more and more mines around the world are turning to Patton & Cooke to ensure they're well connected.

In this arena of diverse power ratings, having a coupler that meets the project's needs is paramount. Patton & Cooke's line of assorted couplers ranging from 600 Volt - 250 Amp, 5/8 kV - 400 Amp, 15 kV - 500 Amp, to 25 kV - 650 Amp ensures the correct fit for the job at hand.

We know that trailing cable systems need to be rugged and reliable to provide continuous power year in and year out in physically hostile environments. In mines, cables and couplers are typically dragged over the ground, subjected to flying rocks and boulders, and submerged in water, snow and ice.

Safety, ease of operation and maintenance, and system integrity are the driving forces behind Patton & Cooke's trailing cable systems. Our equipment provides an extra margin of safety and protection against natural and man-made hazards.

From draglines and TBM's (Tunneling Boring Machines) to ventilation fans and pumps, Patton & Cooke couplers are designed to provide superior performance and lasting protection against natural and man-made hazards.

Other critical applications such as materials handling (cranes) and shore to ship (cold ironing) systems may also realize long lasting performance benefits from the many safety features and product innovations that we have built into our couplers.

Patton & Cooke also manufactures a complete range of cable protection products to support the safety of our high voltage electrical equipment.

It's no wonder that customers worldwide say our couplers are among the safest in the world.



## C10 SERIES

600/1100 Volt - 145/160/225/325 Amp

One of the most value-packed products in the mining industry, the C10 Series is designed to mate with competitors' products without any field modifications.

- Front end serviceable contacts
- Heat treated, anodized aluminum bodies
- Twist lock and lever lock styles are available



## C06C QUICK FLIP SERIES

600 Volt - 250 Amp

This reliable coupler features our quick flip coupling method for fast and easy coupling and uncoupling. Gasketed sealing surfaces and tight fitting covers repel water and dirt and keep electrical contacts clean.

- Front end serviceable contacts
- Over-sized phase and pilot contacts for high reliability
- Submersible option available

## C80 SERIES

5/8 kV - 250/400/500 Amp

To meet the increasing power requirements, this series incorporates all of Patton & Cooke's standard features, but with added design features to give reliable and lasting performance at higher current levels.

- Front end serviceable contacts
- Fully shielded and individually replaceable phase insulators
- Wide range of contact and entrance fitting styles available



## C150 SERIES

15 kV - 500 Amp

Even in the harshest environments, the 15 kV coupler offers world class performance. Best of all, you choose the features that are right for you from our a-la-carte menu of options to create the coupler you need.

- Front end serviceable contacts
- Fully shielded and individually replaceable phase insulators
- Wide range of contact and entrance fitting styles available

## C250 SERIES 25 kV - 400/650 Amp

The 25 kV cable coupler and coupling system incorporates cable couplers and support skids, accessories, termination kits and tools - all the equipment necessary for a complete and manageable cable connection.

- Heavy duty construction for reliable long term operation
- Plug to plug arrangement with mating pins reduces cable laying errors
- Air-free insulation eliminates de-rating for altitude



## COUPLER OPTIONS

Patton & Cooke offers a wide range of customization and options for our couplers including:

- Mechanical Interlocking
- Junction Box
- Skids
- Mounting Hardware
- Leg Mounting
- Epoxy Powder Coating
- Splitter Box
- Live End Cover
- Elbow/Mounting Adapters
- Fiber Optics

## PILOT MONITOR RELAY

Patton & Cooke's pilot wire (ground check) monitoring relay and diodes provide a simple method of checking pilot wire integrity in trailing cable applications.

The relay can detect an open circuit in the ground wire or pilot wire or a short circuit between the pilot wire and ground.



## CABLE ACCESSORIES & SAFETY PRODUCTS

Our line of cable accessories and mining safety products include:

- Cable Riser Brackets
- Cable Buns
- Cable Crossovers
- Cable Horses
- Strain Relief Clamps
- Entrance Fittings
- Rope Brakes
- Splitter Boxes
- Cable Handling Tools
- Cam Clamps
- Universal Skids

## OTHER INDUSTRIES

Patton & Cooke is known around the world for manufacturing high quality trailing cable couplers for mining applications, but we also provide medium and high voltage connector solutions for utilities, portable power applications, ports, shipping companies, bulk handling systems and tunneling projects. Patton & Cooke field specialists are continually working with customers to develop power connector solutions for a wide variety of applications in demanding environments.

In addition to product design and manufacturing, Patton & Cooke provides installation, maintenance, technical support and training to our customers. Our product specialists and our global network of partners help maintain our reputation for providing rugged and dependable products, backed by knowledgeable and timely support services.



### UTILITY

Patton & Cooke offers a varied range of specialty products for utilities and power generators including: our unique line of junction bars, which are ideal for expanding crowded vaults or for use in sectionalizing cabinets.

- Multi Point/Combination Junction Bars
- Potheads
- Bus Supports
- Disconnect Switches
- Cable Transition Modules
- Substation Connectors
- Cable Accessories



### SHORE POWER

Patton & Cooke shore power connectors are widely used in port and shipping applications. Because of our reputation for quality and reliability, our products have become the foundation for the IEC/ISO/IEEE standard for 11-15 kV HVSC (High Voltage Shore Power Connections). This new standard will help to improve air quality worldwide by enabling shore power systems for cruise ships, as well as U.S. Naval vessels while in port.

- High Voltage Shore Power Couplers
- Dredging
- Ship to Shore
- RTG Cranes



### TUNNELING & SHAFT SINKING

Tunneling professionals trust Patton & Cooke for reliable and safe coupler solutions. In addition to supplying cable couplers, we work with cable suppliers and installation professionals around the world to deliver solutions including just in time delivery of electrical cable assemblies for locations without on-site storage facilities. Patton & Cooke tunneling products include:

- Cable Couplers
- Cable Coupler Assemblies
- Pilot Wire Monitoring Systems
- Support Brackets
- Cable Accessories

## MESSAGE FROM THE PRESIDENT

Patton & Cooke was founded in 1961, by an electrical engineer and an electrical designer with over 40 years of combined experience in the design and manufacture of products for the electric utility industry. Their guiding principle was simple: listen to the customer and provide them with quality products that address their needs. More than four decades later, this simple concept has led to the development of many new products serving a wide range of industries. From electrical utilities, world class mining operations, to the latest in naval and marine engineering, when it comes to making an electrical connection, Patton & Cooke is the supplier and product development partner of choice for industry leaders.

Throughout our history, Patton & Cooke has maintained our focus on providing quality products with the highest levels of customer service.

Gary R. Smith  
President & Chief Executive Officer  
Patton & Cooke Co.



## OUR MISSION STATEMENT

Patton & Cooke designs and manufactures high voltage electrical equipment with a commitment to delivering quality products at competitive prices.

We will measure our success by:

- Delivering manufactured products that will meet or exceed the standards of quality expected by our customers.
- Working closely with industry partners to develop new, innovative medium voltage products that address the needs of the industries we serve.
- Seeking and promoting strategic industry alliances to ensure the availability of Patton & Cooke products globally, while maintaining the highest levels of customer service.
- Continuing to set the standard for the timely delivery of medium voltage electrical equipment.

As we look to the future, we envision many new and different products, each designed and manufactured to our customers exacting standards, and all sharing in the Patton & Cooke principle: listen to the customer and provide them with quality products that address their needs.

So, if you have a challenge, an obstacle, or an issue making an electrical connection, let us put our knowledge to work for you.

The Patton & Cooke Team



## HOW TO ORDER

For a copy of our product catalogue, or for further information about our growing range of high voltage electrical equipment for the mining industry, call or email us.

## PATTON & COOKE CO.

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