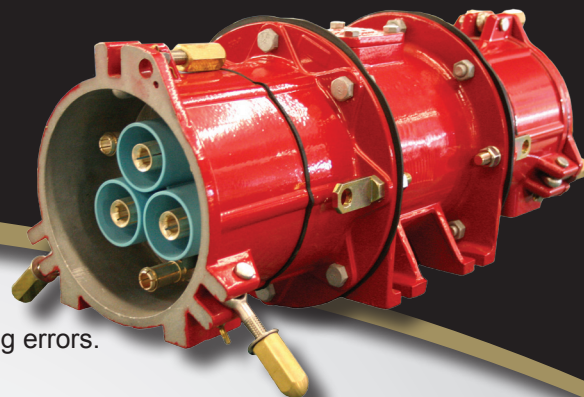




## PATTON & COOKE CO. Junction Boxes



Designed to meet your electrical requirements, Patton & Cooke's junction boxes will extend the life of your connection. Cable mount couplers can have the same gender, eliminating cable laying errors.

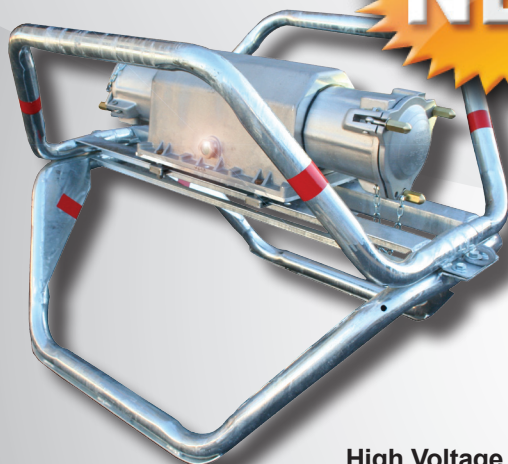
### FEATURES OF SKID MOUNTED JUNCTION BOXES

- Increased visibility of coupler to men and equipment.
- Couplers are not dragged along the ground.
- Couplers are better protected from dirt and moisture.

Coupler Rating	Voltage Class	Description	Mounting Options	Coupler Series	Catalogue Number
250 Amp	600 Volt	Two female receptacles with phase transposing compartments. To join cables equipped with male plugs on both ends.	Less Skid	P/RKA	JKA06K-F-1
250 Amp	5 or 8 kV	Two female receptacles with phase transposing compartments. To join cables equipped with male plugs on both sides. Includes re-enterable void filling material.	Less Skid	P/R K/L	JK8K-F-1
			Skid Mount	P/R K/L	JK8K-F
400 Amp	5 kV		Less Skid	P/R K/L	JL5K-F-1
			Skid Mount	P/R K/L	JL5K-F
250 Amp	5 or 8 kV	Two female receptacles with phase transposing compartment. To join cables equipped with male plugs on both ends. Includes re-enterable void filling material.	Less Skid	C80	C80C3004
			Skid Mount	C80	C80C3003
400 Amp	5 or 8 kV		Less Skid	C80	C80D3007
			Skid Mount	C80	C80D3006
500 Amp	15 kV	Two female receptacles with phase transposing compartment. To join cables equipped with male plugs on both ends	Less Skid	C150	C150F3002
			Skid Mount	C150	C150F3003

# NEW

### INTRODUCING PATTON & COOKE'S NEW INDICATION JUNCTION ASSEMBLY



When used in conjunction with a mine's comprehensive safety procedures, the addition of two induction powered LED lights on the new Patton & Cooke Indication Junction Assembly can add another layer of personnel protection.

**Contact PATTON & COOKE CO.  
today for more information.**



*We make the connection.*

**High Voltage Equipment Solutions. Design and Manufacturing.**

## IMPLEMENTATION GUIDE FOR STATUS INDICATING JUNCTION BOX

### ★THE OBJECTIVE:

Safety in mining is an operational priority that is second to none. High voltage electrical cables and cable connectors used in mines can pose significant risks if they are not maintained and handled safely. Ensuring safety when working with and around high voltage requires a combination of carefully developed procedures, systems, and complementary safety products.

Operating procedures are the first line of defense in preventing accidents with electricity. Only trained personnel, equipped with the appropriate safety equipment should handle electrical equipment.

In addition to safety procedures, electrical equipment can be equipped with circuit breakers, protective relays, pilot wire monitors, and other components that will further reduce the risks to personnel when used properly.

### ★THE CHALLENGE:

One of the challenges for personnel handling high voltage cables is ensuring that circuit is de-energized before disconnecting cable couplers. Because a mine is a dynamic environment, power cables are moved frequently, and are often laid together to minimize the number of crossing points. While an effective strategy for protecting the cables, this arrangement can introduce challenges for handling of the cables.

Mining cables are typically restricted to lengths of 1,000 ft. in length. In order to cover the longer distances from the switch house to the equipment, multiple cables are connected. Typical mines will use anywhere from 5 to as many as 20 cables, interconnected with cable couplers, to provide power to their equipment.

If a fault occurs in one of these cables, it must be removed from service, and a replacement cable installed in its place. However, if multiple cables are laid in proximity to one another, it may be very difficult to determine which cable is de-energized and which cable is live without physically tracing the cable from the power source.

The status indicating junction box was developed to provide a visual indication of energization at a given point along the cable run.

### ★THE ENHANCEMENT:

The Patton & Cooke status indicating junction box is a highly versatile solution to this challenge:

- *Dual lights system ensures redundancy in the event of damage to the light fixture.*
- *Skid mounted cast aluminum 8/15 kV junction box combines versatility with an extremely robust design.*
- *Fast and easy implementation.*
- *Can be used in conjunction with ALL Patton & Cooke 8 & 15 kV class couplers.*
- *No adaptors or modification required to existing couplers.*
- *Use of junction is not a prerequisite - will work with conventional plug and receptacle systems.*

### ★CUSTOMIZATION:

Standard design as shown is a skid mounted cast aluminum junction with 2 indicator lights and may be fitted with any Patton & Cooke 8 or 15 kV class couplers. Custom formed enclosures and lighting arrangements may be available by request. Contact us for more information.

