



# PATTON & COOKE 25 kV, 500 Amp IMG Series Cable Couplers



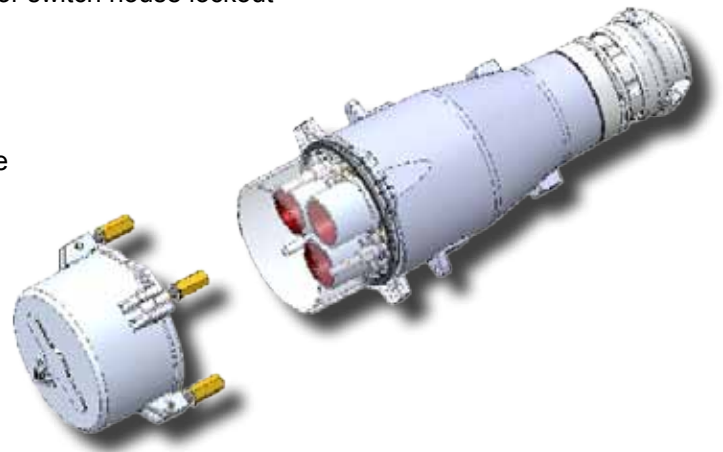
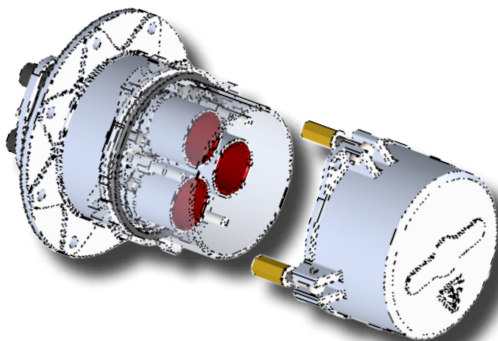
Patton & Cooke offers a new line of Medium Voltage Cable Coupler Systems designed and manufactured for use in various mining (OP/UG), tunneling, and sea port/shore operations to distribute power to mobile/portable, electric equipment. This coupler has been designed specifically with durability, safety and reliability in mind for extended use in the field.

## PRODUCT FEATURES & BENEFITS

- Crimping method of Wire Termination ensures a secure contact and connection between wires and pin/socket contacts.
- The design of the female socket provides a secure and lasting connection between male & female contacts with low insertion forces.
- Stress Controlled Adapters are re-usable and provides air-free termination without use of filling compound.
- Aluminum tube shield on phase insulators prevents phase-to-phase faults and ensure proper high ground fault current conductivity.
- Phase Insulators are made from rigid high strength; UL™ approved material ensuring durability, heat resistance and high dielectric strength.
- Cable Entrance assembly provides IP67 Level seal and clamp cable to coupler.
- Optional 'Key Interlock' system is an additional optional feature in the 15kV systems that prevent coupler disconnection without prior switch house lock-out.
- Optional Safe Eye-Bolt System ensures pilot circuit separation prior to uncoupling thus reducing potential phase arcing.

## PRODUCT OPTIONS

- Male-to-Female or Male-Adapter-Male versions available
- Durable, Powder-Coat Finish (Contact Factory for custom colours)
- Optional "Key Interlock" system is an additional optional feature in the 25kV system that prevents coupler disconnection without prior switch house lockout
- Safe Eye-Bolt System
- Adapter Boxes, Splitters & Adapter Bodies c/w Skid
- Provisioned for optional leg mounting or coupler handle



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

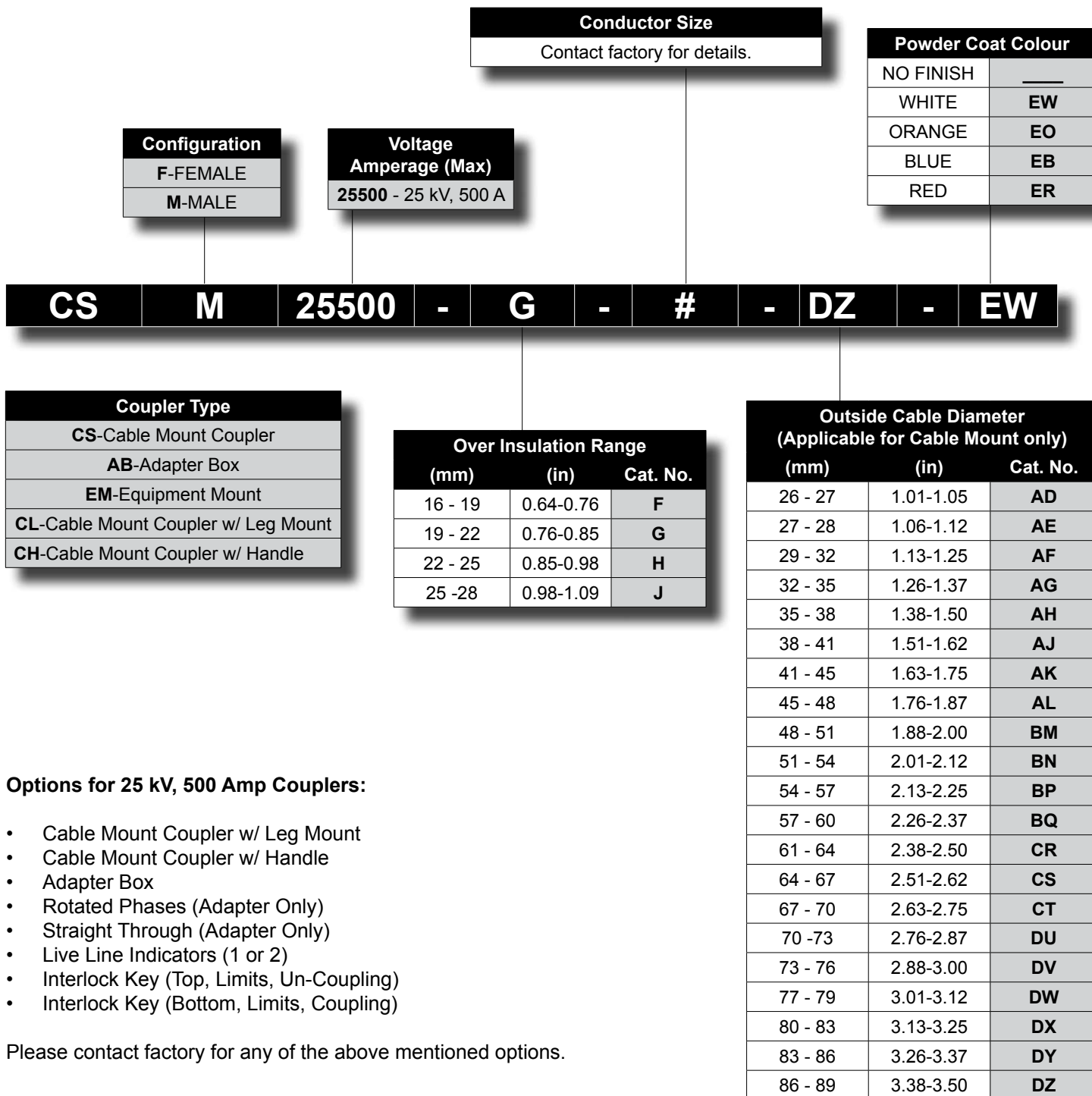
## PRODUCT SPECIFICATIONS

Maximum Voltage 25kV ; Maximum Amperage 500A	Silver-Plated Contacts
Standard Ambient Temperature: -40°C to +45°C (-40°F to +113°F)	Available in Cable Range from 35-120mm <sup>2</sup> (#2-250 MCM)
Standard Body Produced from AA 356.2 Alloy	
Stainless Steel Hardware	Partial Discharge at 20kV: <100pC
AC Voltage Withstand: 54kV dry (5 mins)	DC Voltage Withstand: 78kV (15 mins)
Enclosure Degree of Protection: IP67H	BIL Withstand: 125kV (10 pos,10 neg)

## 500 AMP COUPLER DIMENSIONS & WEIGHTS

Illustration (not to scale)	Coupler Rating (A)	Catalogue Number	Dimensions				Weight
			A	B	C	D	
<p>CABLE MOUNTED MALE</p>	500	<b>CSM25500</b>	274 mm 10.79"	514 mm 20.24"	661 mm 26.02"		20.89 kg 46.07 lbs
<p>CABLE MOUNTED FEMALE</p>	500	<b>CSF25500</b>	274 mm 10.79"	646 mm 25.43"	722 mm 28.43"		20.39 kg 44.95 lbs
<p>EQUIPMENT MOUNTED MALE</p>	500	<b>EMM25500</b>	312 mm 12.28"	110 mm 4.33"	92 mm 3.62"	238 mm 9.37"	15.96 kg 35.20 lbs
<p>EQUIPMENT MOUNTED FEMALE</p>	500	<b>EMF25500</b>	312 mm 12.28"	119 mm 4.69"	223 mm 8.78"	299 mm 11.77"	15.46 kg 34.07 lbs

## COUPLER CATALOGUE NUMBER COMBINATION GUIDE



### Options for 25 kV, 500 Amp Couplers:

- Cable Mount Coupler w/ Leg Mount
- Cable Mount Coupler w/ Handle
- Adapter Box
- Rotated Phases (Adapter Only)
- Straight Through (Adapter Only)
- Live Line Indicators (1 or 2)
- Interlock Key (Top, Limits, Un-Coupling)
- Interlock Key (Bottom, Limits, Coupling)

Please contact factory for any of the above mentioned options.