



PATTON & COOKE 8 kV, 400 Amp IMG Series Cable Couplers



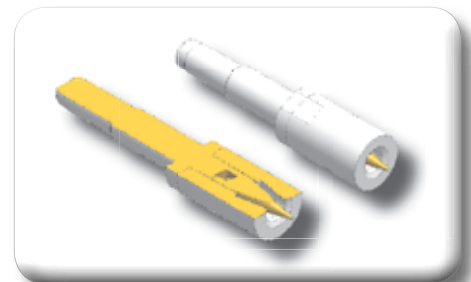
Patton & Cooke is pleased to offer our IMG series of medium voltage cable coupler systems. These couplers are designed and manufactured for use in various mining (OP/UG), tunneling, power generation, sea port/shore and general industry operations to distribute power to mobile/portable, electric equipment. Numerous improvements have been integrated into the coupler designs in order to further increase safety, durability and reliability in the field.

PRODUCT FEATURES & BENEFITS

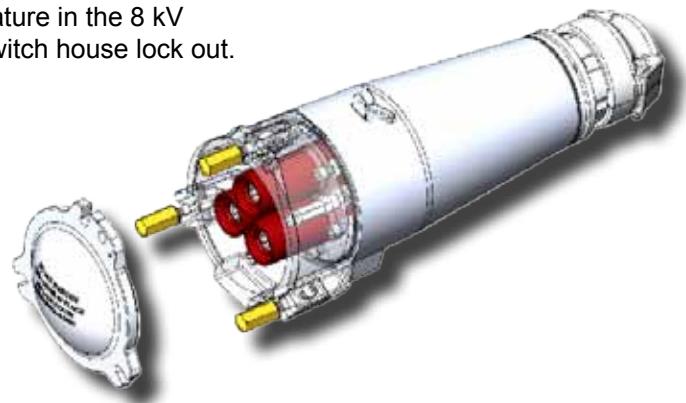
- Exclusive "Wedge Pin" type method of phase wire termination ensures a secure contact and connection between conductors and pin/socket contacts.
- Stainless steel spring band on female sockets ensures a secure and lasting connection between male and female contacts.
- Silicon stress control termination is re-usable and provides air-free termination.
- Individually replaceable phase tubes.
- Phase insulators are made from high strength, insulating, UL™ approved material ensuring durability, heat resistance and high dielectric strength.
- Cable entrance assembly is designed to seal and clamp cable to coupler to ensure IP-67 rating.

PRODUCT OPTIONS

- Junction to connect Male Cable End to Male Cable End.
- Durable, powder coat finish (various colours).
- Optional safety feature of the 8 kV coupler is a "Live-Line LED Indication System" that provides an operator with visible indication of an energized coupler.
- Optional "Key Interlock" system is an additional optional feature in the 8 kV system that prevents coupler disconnection without prior switch house lock out.
- Provisioned for optional leg mounting or coupler handle.



*Exclusive Wedge Pin
Cable Connection*

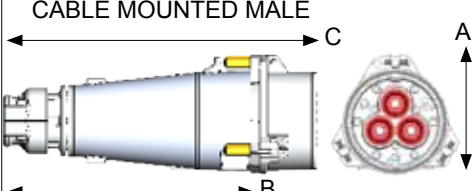
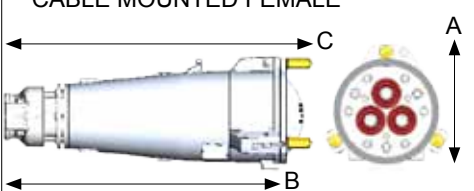
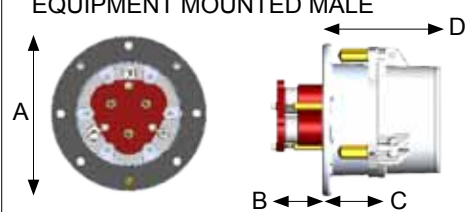
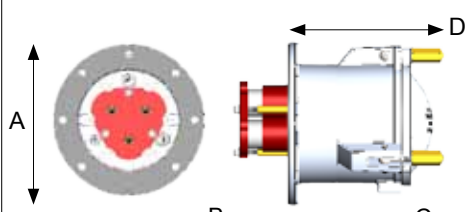


High Voltage Equipment Solutions. Design and Manufacturing.

PRODUCT SPECIFICATIONS

Maximum Voltage, 8kV ; Maximum Amperage 400A	Partial Discharge at 5.5kV: <100pC
Standard Ambient Temperature: -40°C to +45°C (-40°F to +113°F)	Available in Cable Range from 34-185 mm ² (#2-350 MCM)
Standard Body Produced from AA 356.2 Alloy	Silver Plated Contacts
A.C. Withstand Voltage: 26kV dry (1 min)	D.C. Withstand Voltage: 53kV (15 mins)
BIL Withstand Voltage: 75kV (10 pos, 10 neg)	Enclosure Degree of Protection: IP67H
Shock and Vibration Rating: IK10	Short Circuit Rating: 38kA
Nominal Current: 250/400 Amps	Peak Withstand: 28kA

400 AMP COUPLER DIMENSIONS & WEIGHTS

Illustration (not to scale)	Coupler Rating (A)	Catalogue Number	Dimensions				Weight
			A	B	C	D	
<p>CABLE MOUNTED MALE</p> 	400	CSM8400	232 mm 9.13"	498 mm 19.61"	612 mm 24.09"		14.46 kg 31.88 lbs
<p>CABLE MOUNTED FEMALE</p> 	400	CSF8400	245 mm 9.65"	590 mm 23.23"	661 mm 26.02"		16.15 kg 35.53 lbs
<p>EQUIPMENT MOUNTED MALE</p> 	400	EMM8400	271 mm 10.67"	90 mm 3.54"	98 mm 3.86"	211 mm 8.31"	9.92 kg 21.88 lbs
<p>EQUIPMENT MOUNTED FEMALE</p> 	400	EMF8400	271 mm 10.67"	90 mm 3.54"	188 mm 7.40"	259 mm 10.20"	11.58 kg 25.52 lbs

COUPLER CATALOGUE NUMBER COMBINATION GUIDE

Conductor Size		
(mm ²)	(in)	Cat. No.
34 - 42	#2 - #1	01
54 - 67	1/0 - 2/0	20
85 - 107	3/0 - 4/0	40
127	250	250

Powder Coat Colour	
NO FINISH	—
WHITE	EW
ORANGE	EO
BLUE	EB
RED	ER

Configuration
F-FEMALE
M-MALE

Voltage Amperage (Max)
8400 - 8 kV, 400 A

CS M 8400 - C - 01 - DZ - EW

Coupler Type
CS-Cable Mount Coupler
AB-Adapter Box
EM-Equipment Mount
CL-Cable Mount Coupler w/ Leg Mount
CH-Cable Mount Coupler w/ Handle

Over Insulation Range		
(mm)	(in)	Cat. No.
13 - 16	0.51-0.63	C
16 - 19	0.63-0.75	D
18 - 21	0.71-0.83	E
20 - 23	0.79-0.91	F
23 - 25	0.91-0.98	G
25 - 29	0.98-1.14	H
29 - 32	1.14-1.26	J

Outside Cable Diameter (Applicable for Cable Mount only)		
(mm)	(in)	Cat. No.
26 - 27	1.01-1.05	AD
27 - 28	1.06-1.12	AE
29 - 32	1.13-1.25	AF
32 - 35	1.26-1.37	AG
35 - 38	1.38-1.50	AH
38 - 41	1.51-1.62	AJ
41 - 45	1.63-1.75	AK
45 - 48	1.76-1.87	AL
48 - 51	1.88-2.00	BM
51 - 54	2.01-2.12	BN
54 - 57	2.13-2.25	BP
57 - 60	2.26-2.37	BQ
61 - 64	2.38-2.50	CR
64 - 67	2.51-2.62	CS
67 - 70	2.63-2.75	CT
70 - 73	2.76-2.87	DU
73 - 76	2.88-3.00	DV
77 - 79	3.01-3.12	DW
80 - 83	3.13-3.25	DX
83 - 86	3.26-3.37	DY
86 - 89	3.38-3.50	DZ

Options for 8 kV, 400 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.