ORDERING INFORMATION

500 AMP COUPLER CATALOG NUMBERS

| Coupler Rating (A) | Male/Female | Mounting Options | Outside Cable Diameter (mm) (in) | | Patton & Cooke Catalog Number |
|-----------------------|-------------|---------------------|-------------------------------------|-----------|-------------------------------|
| | М | Cable Mount | 20.8-47.5 | 0.82-1.87 | C150F1003 x |
| | | | 47.8-60.2 | 1.88-2.37 | C150F1004 x |
| | | | 60.5-69.9 | 2.38-2.75 | C150F1005 <u>x</u> |
| | | | 70.1-88.9 | 2.76-3.50 | C150F1006 <u>x</u> |
| | F | | 20.8-47.5 | 0.82-1.87 | C150F2005 x |
| 500 | | | 47.8-60.2 | 1.88-2.37 | C150F2006 x |
| | | | 60.5-69.9 | 2.38-2.75 | C150F2007 x |
| | | | 70.1-88.9 | 2.76-3.50 | C150F2008 x |
| | М | Equipment Mount | N/A | | C150F1007 <u>x</u> |
| | F | wount | N/A | | C150F2009 <u>x</u> |

TABLE A: 500 AMP COUPLER CATALOG SUFFIX - x

| Max. Cable Siz (mm ²) | ze SHD-GC 5 or 8 kV (AWG) | <u>x</u> - Cat. No. Suffix | Max. Cable Siz (mm²) | ze SHD-GC 5 or 8 kV (AWG) | <u>x</u> - Cat. No. Suffix |
|--------------------------------------|------------------------------|----------------------------|-------------------------|------------------------------|----------------------------|
| 34 | #2 | F | 127 | 250 MCM | м |
| 42 | #1 | G | 152 | 300 MCM | Ν |
| 54 | 1/0 | н | 178 | 350 MCM | 0 |
| 67 | 2/0 | J | 203 | 400 MCM | Р |
| 85 | 3/0 | к | 228 | 450 MCM | Q |
| 107 | 4/0 | L | 254 | 500 MCM | R |

COUPLER ENTRANCE FITTING GASKET KITS (FOR CABLE MOUNT COUPLERS)

| Outside Ca | able Diameter | Catalog Number | Outside Cable Diameter | | Catalog Number |
|------------|---------------|----------------|------------------------|-----------|----------------|
| (mm) | (in) | | (mm) | (in) | |
| 20.8-22.1 | 0.82-0.87 | C150F3004 | 51.1-53.8 | 2.01-2.12 | C150F3016 |
| 22.4-23.9 | 0.88-0.94 | C150F3005 | 54.1-57.2 | 2.13-2.25 | C150F3017 |
| 24.1-25.7 | 0.95-1.01 | C150F3006 | 57.4-60.2 | 2.26-2.37 | C150F3018 |
| 25.9-26.9 | 1.02-1.06 | C150F3007 | 60.5-63.5 | 2.38-2.50 | C150F3019 |
| 27.2-28.4 | 1.07-1.12 | C150F3008 | 63.8-66.5 | 2.51-2.62 | C150F3020 |
| 28.7-31.8 | 1.13-1.25 | C150F3009 | 66.8-69.9 | 2.63-2.75 | C150F3021 |
| 32.0-34.8 | 1.26-1.37 | C150F3010 | 70.1-72.9 | 2.76-2.87 | C150F3022 |
| 35.0-38.1 | 1.38-1.50 | C150F3011 | 73.2-76.2 | 2.88-3.00 | C150F3023 |
| 38.4-41.1 | 1.51-1.62 | C150F3012 | 76.5-79.2 | 3.01-3.12 | C150F3024 |
| 41.4-44.5 | 1.63-1.75 | C150F3013 | 79.5-82.6 | 3.13-3.25 | C150F3025 |
| 44.7-47.5 | 1.76-1.87 | C150F3014 | 82.8-85.6 | 3.26-3.37 | C150F3026 |
| 47.8-50.8 | 1.88-2.00 | C150F3015 | 85.9-88.9 | 3.38-3.50 | C150F3027 |

SELECTION REMINDERS:

1. Each kit consists of 2 clamp inserts and 1 cable gasket.

2. Choose the kit to fit the outside diameter of the cable.

3. Make sure that the O/D of the kit chosen falls within the outside cable diameter range of the selected cable mounted coupler.

CONTACT INFORMATION

| Mailing Address: |
|------------------------|
| 100 - 7795 128th Stree |
| Surrey, B.C. Canada |
| V3W 4E6 |

TollFree (North America Only): 1.866.591.5374 tel:+1.604.591.5374 fax:+1.604.591.3505 email:promos@pattonandcooke.com

Please visit us at www.pattonandcooke.com

How to order:

Contact Structure: 3 Power + 1 Ground + 1 Pilot

When ordering the Patton & Cooke 15kV coupler, please specify our *catalog numbers, your cable type,* size and diameter. For cable mount couplers, entrance fitting kits must be purchased separately.

1. Determine the following:

- a. Male (plug) or female (receptacle) contacts. b. Cable or equipment mounting.
- 2. For equipment mounting, select catalog number of coupler.
- 3. For cable mounting, determine outside cable diameter and select catalog number of coupler. Clamp inserts and cable gasket must be purchased separately as a kit for the entrance fitting.
- 4. Determine conductor size and substitute appropriate code from Table A for "x" in the catalog number.

Special Notes:

All couplers and junction boxes are supplied with cover, attachment chain and provision for padlocking two mated couplers and/or covers. Termination kits and potting compound can be purchased separately.

Potting compound is recommended for 15 kV couplers and junction boxes.

Standard terminations for phase and pilot conductors are designed for soldering. Grounds are mechanical type.

Catalog Number will be assigned by Patton & Cooke at time of order entry. Contact factory if preassigned number is required.



Other options Mounting legs Mechanical interlock · Live end cover equipped Additional contacts

Please contact your local Patton & Cooke Representative for a complete list of options.









LNG Carriers

Containers

Patton & Cooke Co. High Voltage Shore Power **Coupler System**

A proven, dependable performer in even the harshest

for longer life and long-term cost savings. In addition,

We make the connection.



Visit our website at www.pattonandcooke.com for more information

15kV Design Features

Insulator



The standard contact arrangement for the 15 kV coupler includes three insulated phase contacts, one ground contact, and one isolated pilot contact.

RMS



ELECTRICAL DATA

15.0kV Coupler voltage class 1 minute dry withstand (AC) 50.0kV 6 hour dry withstand (AC) 35.0kV 15 minute dry withstand (AC) 75.0kV Basic impulse level (BIL) 95.0kV Corona extinction voltage (BIL) 13.0kV Short circuit fault level 41.2kA



Featured Applications Princess Cruise Lines

Features:

- Quick coupler system: meets requirement for fast power transition (less than 1/2 hour)
- Dual voltage compatibility: supplies both 11kV and 6.6kV vessels at up to 13MW
- Robust design: a proven performer, ensuring a lasting and reliable connection in the harshest marine environments

Specifications:

- Front end serviceable contacts
- Fire retardant insulators
- Corrosion resistant, epoxy coated, anodized aluminum bodies
- Secure three bolt, quick flip connection
- Self-aligning housings
- Ground check (pilot) system protection
- Accepts conductors to 500 MCM (250 mm2) and diameters up
- to 3.5" (90mm) larger sizes available on request
- Silver-plated male and female phase contacts with patented multilam contact band arrangement

Benefits

- Provides access to clean shore power
- Fast and safe installation: coupling system is easily managed by crew and shore personnel
- Pilot wire system for added safety
- Easy, on-site front-end maintenance of live parts

Crane Application

Features:

• Quick coupler system: helps minimize crane downtime caused by damaged cables by enabling fast changeout of equipment or access to auxilliary power supplies

Marine grade construction:

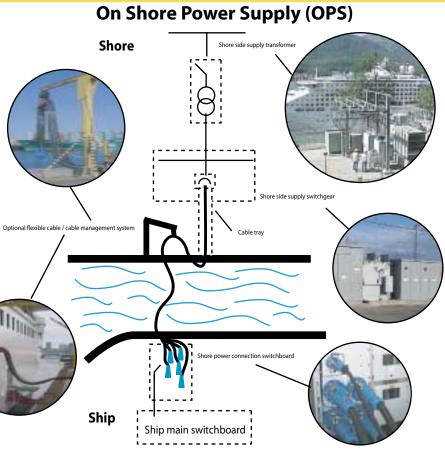
- · Heat treated, anodized, aluminum castings
- Stainless steel hardware
- Hypalon gaskets
- · Heavy-duty polyester powder coating
- Fiber Optic Capabilities
- · Available with provision for managing cables with integrated fiber optic bundle

Specifications:

- Front end serviceable contacts
- Fire retardant insulators
- Corrosion resistant, epoxy coated, anodized aluminum bodies
- Secure three bolt, quick flip connection
- Self-aligning housings
- Ground check (pilot) system protection
- Accepts conductors to 500 MCM (250 mm2) and diameters up to 3.5" (90mm) larger sizes available on request
- Silver-plated male and female phase contacts with patented multilam contact band arrangement

Benefits

 Reduce crane downtime • Easy, on-site front-end maintenance of live parts









Container Crane Power Supply

