



C150F - 500 AMP MALE & FEMALE COUPLERS
C150F - 500 AMP JUNCTION BOX

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500 AMP COUPLER CATALOG NUMBERS

Contact Structure: 3 Power + 1 Ground + 1 Pilot

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

ORDERING PROCEDURE:

- Determine the following:
 - Male (plug) or female (receptacle) contacts.
 - Cable or equipment mounting.
- For equipment mounting, select catalog number of coupler.
- 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, see Table B on page 2.
- Determine conductor size and substitute appropriate code from Table A on page 2 for "x" in the catalog number.

Example: male plug, cable mount, #2 cable, outside cable diameter 2.54"
 Catalog number C150F1005F
 Entrance Fitting Gasket Kit C150F3020

TABLE A: 500 AMP COUPLER CATALOG SUFFIX - x

Max. Cable Size SHD-GC 5 or 8 kV (mm ²)	(AWG)	<u>x</u> - Cat. No. Suffix	Max. Cable Size SHD-GC 5 or 8 kV (mm ²)	(AWG)	<u>x</u> - Cat. No. Suffix
34	#2	F	127	250 MCM	M
42	#1	G	152	300 MCM	N
54	1/0	H	178	350 MCM	O
67	2/0	J	203	400 MCM	P
85	3/0	K	228	450 MCM	Q
107	4/0	L	254	500 MCM	R

Available options refer to Table B on page 3. Available accessories refer to page 5.

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, refer to page 5. Potting compound is also available as an option. Refer to table C on page 3.

Standard terminations for phase, pilot and ground conductors are designed for soldering.

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



TABLE B: COUPLER ENTRANCE FITTING GASKET KITS (FOR CABLEMOUNT COUPLERS)

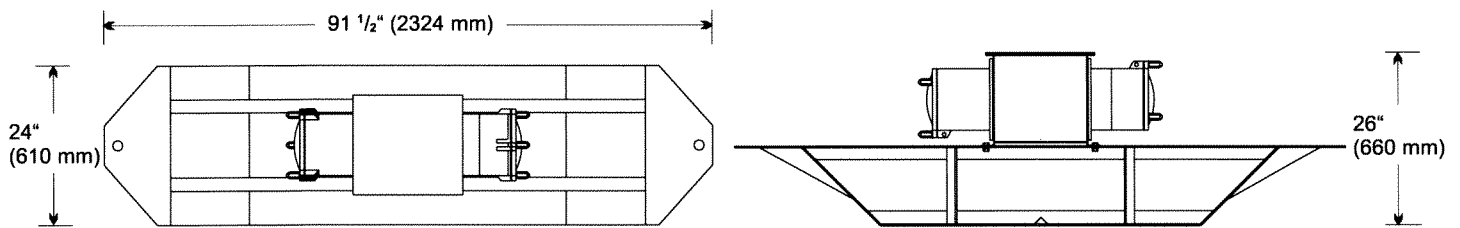
Outside Cable Diameter (mm) (in)		Catalog Number	Outside Cable Diameter (mm) (in)		Catalog Number
20.8-22.1	0.82-0.87	C150F3004	51.1-53.8	2.01-2.12	C150F3016
22.4-23.9	0.88-0.94	C150F3005	54.1-57.2	2.13-2.25	C150F3017
24.1-25.7	0.95-1.01	C150F3006	57.4-60.2	2.26-2.37	C150F3018
25.9-26.9	1.02-1.06	C150F3007	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.

250 & 400 AMP JUNCTION BOX CATALOG NUMBERS

Coupler Rating (A)	Description	Mounting Options	Patton & Cooke Catalog Number
500	Two female receptacles with phase transposing compartment. To join cables equipped with male plugs on both ends.	Less Skid	C150F3002
		Skid Mount	C150F3003



SKID MOUNTED JUNCTION BOX

Available options refer to Table B page 3. Available accessories refer to page 5.

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, refer to page 5. Potting compound is also available as an option. Refer to table C on page 3.

Standard terminations for phase, pilot and grounds conductors are designed for soldering.

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



TABLE C: 500 AMP COUPLER AND JUNCTION BOX OPTIONS

This table lists options that may be requested with this product class. Use of this table is not required for standard configurations

Description		Description	
1. Corrosion Resistant Option Includes: hypalon gaskets & seals, all stainless steel hardware and extra heavy epoxy coating. Add to price of epoxy coating option.		7. Ground Contacts (0-3) Specify: One Additional Two Additional, No Pilot (See Note 1)	
2. Elbow Adaptor. Change right angle equipment to 45°		8. Ground Lug, External	
3. Entrance Fitting, Conduit Coupling. Specify size and type.		9. Interlocks, Mechanical provision for (does not include interlocks, e.g. Kirk type)	Male
4. Entrance Fitting, Steel Wire Armour Clamp. Specify size and type.			Female
5. Entrance Fitting, Teck Cable. Specify size and type.		10. Leg Mounting, Three mounting feet	
6. Electrostatic Application of Epoxy Powder Coating Available on: Cable Mount Equipment Mount Junction Boxes	Color / Code		11. Live End Cover, Equipped with End-of-Line Diode
	Blue (EB)	Grey (EGR)	12. Neutral Contact, One isolated. Max. one extra
	Orange (EO)	Brown (EBR)	13. Pilot Contact, None.
	White (EW)	Black (EBK)	14. Pilot Contacts (0-4) Specify: One Additional Two Additional Three Additional (See Note 1).
	Yellow (EY)	Violet (EV)	
	Green (EG)	Blue Grey (EBG)	
	Red (ER)		15. Potting Compound.

SELECTION REMINDERS:

- Standard Contact Structure: 3 Power + 1 Ground + 1 Pilot
- Additional ground contacts and / or additional pilot contacts may be selected as an option.

ORDERING PROCEDURE (WITH OPTIONS):

Example: 15 kV, male plug, cable mount, 2/0 cable, outside cable diameter 2.89", provision for mechanical interlock
 Basic Catalog Number C150F1006
 Gasket Kit Catalog Number C150F3023
 Provision for mechanical interlock

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

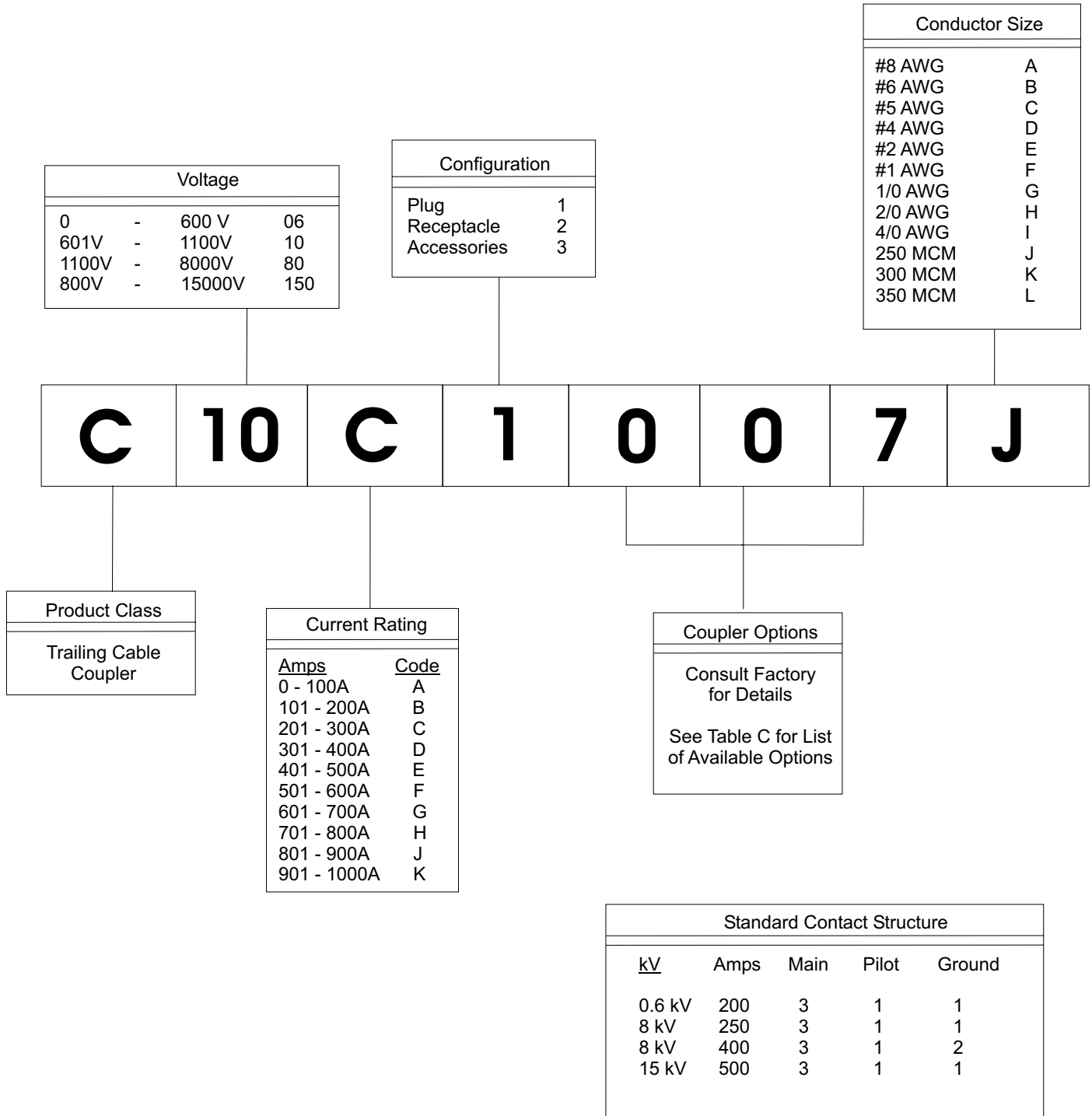
If other options are required which are not listed please contact Patton & Cooke.



PATTON & COOKE CO.
TRAILING CABLE COUPLERS
C SERIES



COUPLER CATALOG NUMBER
COMBINATION GUIDE





500 AMP COUPLER AND JUNCTION BOX KITS AND ACCESSORIES

CONVERSION KITS

The kits listed below are designed to replace the threaded front body system of PLM, TJB, Ensign Hubble and Line Power 15 kV couplers with the Patton & Cooke 3 bolt, "quick flip" connection system. Both plug (male) and receptacle (female) must be converted to permit couplers to be joined. Each kit contains front body with 3 bolt, "quick flip" system, hood, chain and mounting hardware. These kits can be installed on PLM series 154, 155, 375, 415, 475, 515 and 575. PLM couplers fitted with these kits can be joined to Patton and Cooke C150 series couplers.

Description	Patton & Cooke Catalog Number
Kit for plug (male)	11F-050
Kit for receptacle (female)	11F-051
Kit for one plug and one receptacle	11F-050/051

Note: 1. Conversion kits can be epoxy powder coated.. Refer to Table B on page 3 for available colours.

COUPLER TERMINATION KITS

These kits include all materials and instructions necessary to terminate one end of a three phase 15 kV cable. Stress relief and insulation is provided by heat shrink tubing. Taping is kept to a minimum.

Description	Patton & Cooke Catalog Number
3 conductor, 34 to 127 mm ² or #2 to 250 MCM AWG	11Y-004
3 conductor, 107 to 254 mm ² or 4/0 to 500 MCM AWG	11Y-006

COUPLER / JUNCTION BOX SKID

Description	Patton & Cooke Catalog Number
Stone boat style skid	STA-015B

POTTING COMPOUND

Description	Patton & Cooke Catalog Number
Two part. Cold pour mix, 750 g container.	OS-J563-750
Two part. Cold pour mix, 3 000 g container.	OS-J563

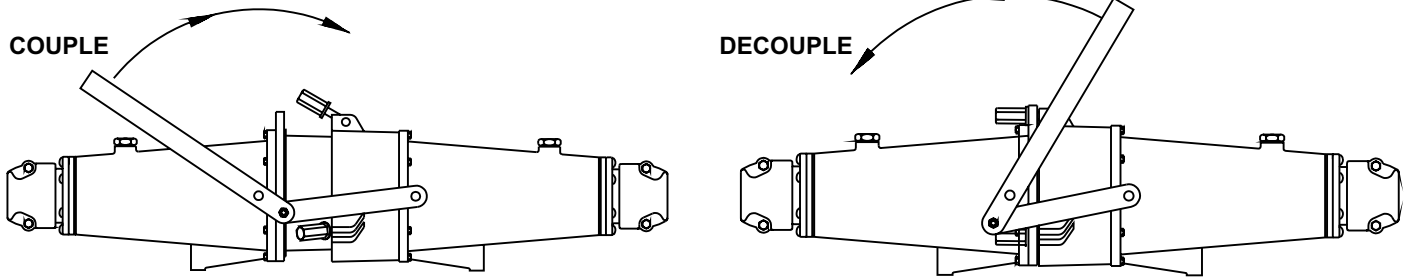
Note 1. Two (2) 3000 g kits are required for each cable mount 15kV coupler.

COUPLER TOOLS

Description	Patton & Cooke Catalog Number
Contact insertion tool	11F-015A
Main phase nut installation tool	11F-015B
Complete coupler assembly tool kit. Includes contact insertion tool, main phase nut installation tool, 7/16" and 9/16" combination wrench, 7/32" A/F hex screwdriver, 3/16" A/F hex allen key and 10" adjustable wrench assembled complete in tool box.	C150F3001



CLOSING TOOL



CLOSING TOOL AND HANDLE ASSEMBLY SHOWN IN USE ON 15 kV COUPLER

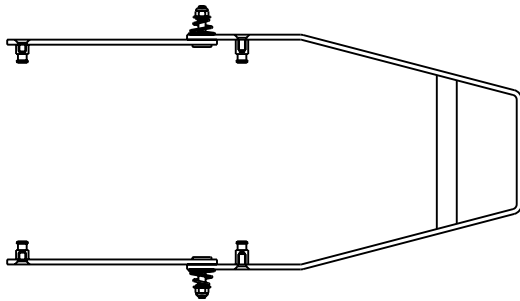
Assists in coupling and decoupling of 15 kV trailing cable couplers fitted with Patton & Cooke three bolt quick connection system.

By simply adding the bracket sets (C150F3049) to cable mounted plugs and receptacles, coupling and decoupling now becomes a simple, one person operation. No threads, no collars, no hassles.

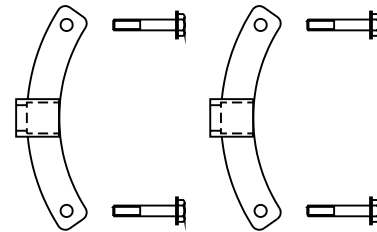
The closing tool has a positive locking pin and sleeve that can easily be unclipped for handle removal; freeing the handle for safe storage or for use on the rest of the power distribution system.

Manufactured from heavy duty steel with corrosion resistant hardware and pivot parts. Finished in durable, highly visible baked on epoxy powder coating.

Also, this closing tool can be mounted on competitors' couplers which have been converted to the Patton & Cooke 3 bolt quick connect front end.



HANDLE ASSEMBLY (C150F3050)



BRACKET ASSEMBLY (C150F3049)

Patton & Cooke Catalog Number	Description
C150F3050	Handle Assembly for use with bracket kit, C150F3049
C150F3049	Bracket assembly consisting of two brackets and stainless steel mounting hardware for use on either cable mounted plug or receptacle. (Kit will adapt one cable end).
C150F3066	Bracket assembly consisting of two brackets and stainless steel mounting hardware for use on either equipment mounted plug or receptacle. (Kit will adapt one cable end).



500 A COUPLER WEIGHTS AND DIMENSIONS

Illustration (not to scale)	Coupler Rating (A)	Catalog Number	Dimensions					Weight
			A	B	C	D	E	
<p>CABLE MOUNTED MALE</p>	500	C150F1003 C150F1004 C150F1005 C150F1006	20 1/4" 514 mm	10 1/2" 267 mm	24 1/2" 622 mm			38.0 lb 17.0 kg
<p>EQUIPMENT MOUNTED MALE</p>	500	C150F1007	4 3/4" 121 mm	12 1/4" 311 mm	9" 229 mm	11" 279 mm	1 1/2" 38 mm	32.0 lb 14.5 kg
<p>CABLE MOUNTED FEMALE</p>	500	C150F2005 C150F2006 C150F2007 C150F2008	24" 610 mm	11 1/2" 292 mm	27" 686 mm			38.0 lb 17.0 kg
<p>EQUIPMENT MOUNTED FEMALE</p>	500	C150F2009	5 1/4" 133 mm	12 1/4" 311 mm	8 1/4" 210 mm	11" 279 mm	4" 102 mm	27.0 lb 12.3 kg
<p>JUNCTION BOX</p>	500	C150F3002	16 1/4" 413 mm	14 1/4" 362 mm	32" 813 mm			100.0 lb 45.0 kg

CUT-OUT DETAILS FOR EQUIPMENT MOUNT COUPLERS

