



PATTON & COOKE CO.

High Voltage Equipment Solutions. Design and Manufacturing.

Utility Industry

PATTON & COOKE CO. MANUFACTURING





ABOUT PATTON & COOKE CO.

ABOUT PATTON & COOKE CO.

OUR BEGINNING

Patton & Cooke was established in 1961 in Vancouver, BC Canada by an electrical engineer and an electrical designer with over 40 years combined experience in the design and manufacture of products for the electric utility industry. Patton & Cooke's focus has remained the same throughout the growth of the company - to develop and manufacture high voltage equipment with a commitment to quality products at competitive prices.

OUR PLANT

Patton & Cooke has a modern 34,000 sq/ft manufacturing facility in Surrey, a rapidly growing suburb of Vancouver, BC. Our location is ideal - we are situated in the heart of Canada's gateway to the Pacific Rim, and only minutes from the United States border.

Our plant has complete Computer Aided Design (CAD/SolidWorks), product testing, fabricating and assembly facilities. Quality assurance is paramount and our plant meets the highest applicable industry standards.

OUR SUPPORT

Patton & Cooke's team of field engineers is continually working with customers to co-develop, customize and improve products. This has resulted in many design improvements and innovations.

We also help our customers install, operate and maintain our products and provide valuable in-field training. Such support is an important part of the world-wide reputation we enjoy for rugged and dependable products, backed by skilled and responsive in-field service.

OUR PROMISE

Patton & Cooke designs and manufactures medium voltage electrical equipment with a commitment to delivering quality products at competitive prices.

WE WILL MEASURE OUR SUCCESS BY:

Delivering manufactured products that will meet or exceed the standard of quality expected by our customers.

Working closely with industry partners to develop new, innovative medium voltage products that address the needs of the industries we serve.

Seeking and promoting strategic industry alliances to ensure the availability of Patton & Cooke products globally, while maintaining the highest levels of customer service.

Continuing to set the standard for the timely delivery of medium voltage electrical equipment.

As we look to the future, we envision many new and different products, each designed and manufactured to our customers exacting standards, and all sharing in the Patton & Cooke principle: listen to the customer and provide them with quality products that address their needs.

So, if you have a challenge, an obstacle, or an issue making an electrical connection, let us put our knowledge to work for you.





JUNCTION BARS

PATTON & COOKE ELECTROPLASTICS

All Patton & Cooke electroplastic products offer the following features:

15 kV, 25 kV and 35 kV voltage class products available.

Support 200 Amp, 600 Amp and 900 Amp interfaces and combinations.

Cast from Patton & Cooke's engineered resin EN-4.

Junction bars are fully shielded, fully submersible and resistant to harsh chemicals.

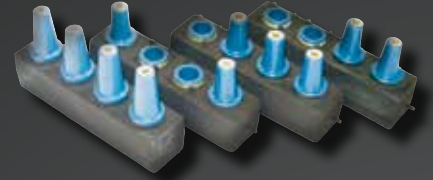
Designed for use with separable insulated connectors, manufactured to ANSI/IEEE Standard 386.

The 200 Amp units incorporate a universal bushing well design, making it possible to use either a loadbreak or deadbreak bushing insert.

All in-line junctions can be equipped with universal mounting brackets that can provide mounting angles from 0° to 60°, "U" straps or special mounting arrangements required for installation in sectionalizing cubicles.

Patton & Cooke mounting brackets are manufactured of stainless steel or, where applicable, powder coated mild steel.

Parking stands are exclusively made of stainless steel.



JUNCTIONS/WYE SPLICES

Patton & Cooke junction bars were designed to provide a more robust connection point for separable rubber connectors and eliminate the problem of amalgamation when rubber connectors are mated for extended periods of time. Cast from our engineered resin EN-4, Patton & Cooke junction bars are designed for vault or apparatus applications and can be used for looping, tapping and sectionalizing.

Patton & Cooke junction bars are available in the following orientations:

SINGLE PHASE IN-LINE:

All connection points are aligned on a single axis, available with 4" and 6" centers, may be up to 6 points on 4" centers or 4 points on 6" centers, low profile style also available for use in sectionalizing cabinets or in vaults where space is restricted.

SINGLE PHASE STACKED:

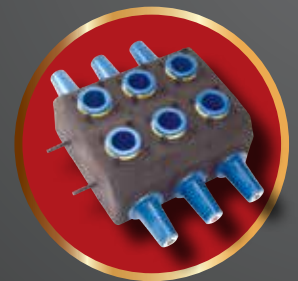
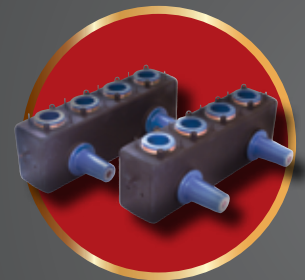
All connection points are aligned on a two parallel axes, ideal where vault space is limited, may be up to 12 positions on 4" centers or 6 positions on 6.5" centers.

SINGLE PHASE "L" CONFIGURATION:

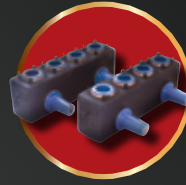
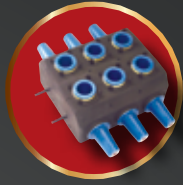
Similar to in-line, but second axis is in perpendicular orientation to the first, ideal where space restrictions limit the ability to bend cable, available with 4" or 6" centers.

THREE PHASE "Y" SPLICE:

Similar to "L" splice, but with both second and third axes in perpendicular orientation to the first, available with 4" or 6" centers.

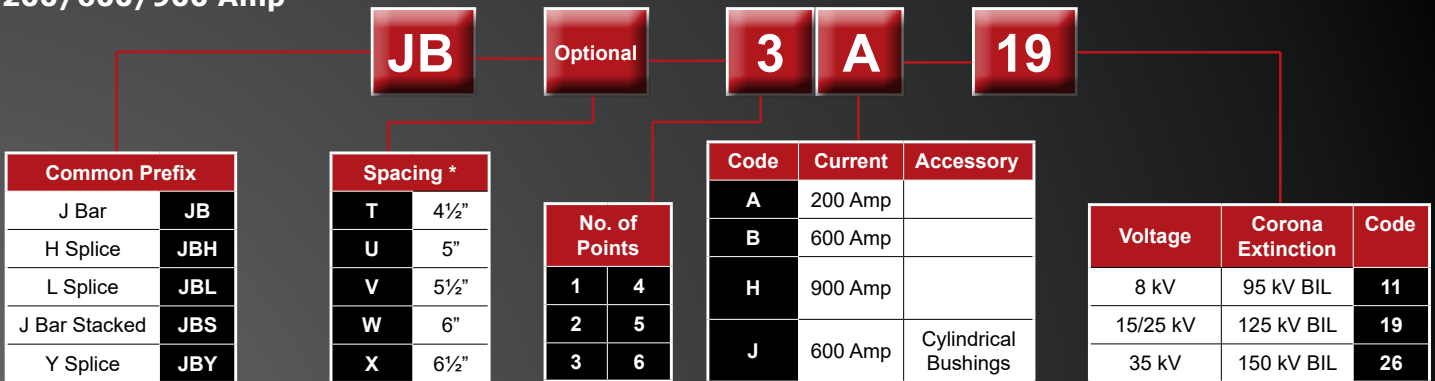


JUNCTION BARS CATALOGUE NUMBER



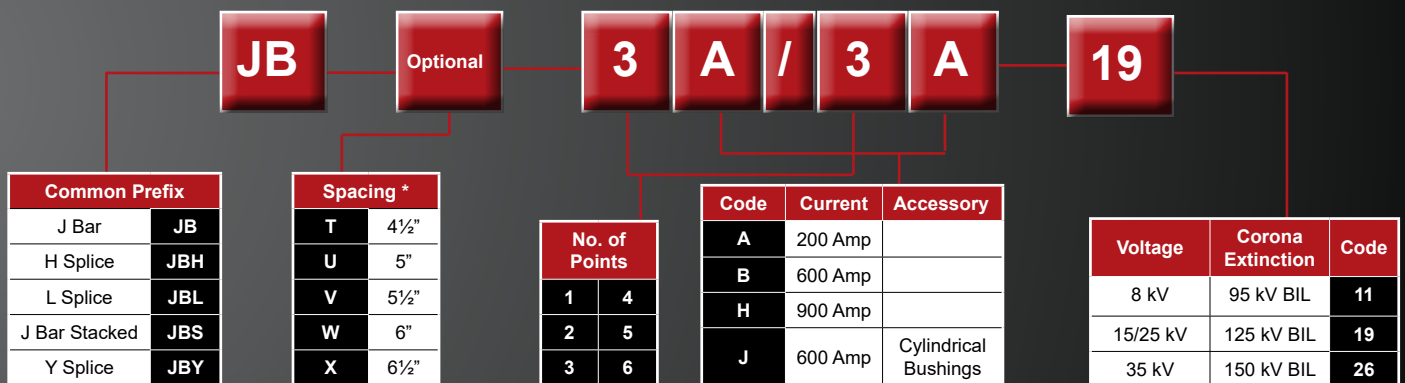
Manufactured to ANSI/IEEE Standard 386 Vault Installation using 6 Point Stacked Style Junction Bars

200/600/900 Amp



* 25kV Equipment will be configured with standard 4" spacing unless an optional value is specified here.

Combination 200/600/900 Amp



* 25kV Equipment will be configured with standard 4" spacing unless an optional value is specified here.

THRU-WALL BUSHING (SINGLE & THREE-PHASE)

The thru-wall bushing is your pothead replacement solution. It's vacuum cast from silica based thermal setting resin and replaces original porcelain bushings. Single and three phase units are available up to 35 kV and current ratings to 900 Amp.

- Resistant to extreme temperatures and harsh chemicals.
- Hypalon gaskets throughout, ensuring a leakproof seal.
- Can be maintained on-site and retrofitted onto existing Type RA oil switchgear.
- Accept both straight receptacle housings and deadbreak separable connector elbows.
- Optional closing tool is available for connecting straight receptacle housings.



ELECTRICAL RATINGS FOR SEPARABLE CONNECTORS

Description	15 kV Class Ratings	25 kV Class Ratings	35 kV Class Ratings
OPERATING VOLTAGE (Maximum continuous line-to-ground, 100% insulation system)	8.3 kV	15.2 kV	21.1 kV
BIL (@1.2 x 50 microsecond wave)	95 kV	125 kV	150 kV
WITHSTAND VOLTAGE AC (1 minute)	34 kV 53 kV	40 kV 78 kV	50 kV 103 kV
CORONA EXTINCTION LEVEL (min. @ 3pC)	11 kV	19 kV	26 kV
CURRENT 200 Amp Class Products Continuous operation Short-time 600 Amp Class Products Continuous operation Short-time		200 A* 10 kA sym. 10 Cycles 600 A* 25 kA sym. 10 Cycles	

All separable connectors are designed and manufactured to ANSI/IEEE Standard 386 and tested in accordance with IEEE #48.




Ratings are based on ANSI/IEEE standard and do not reflect maximum levels.

Application Considerations: This product is designed for use on grounded "Y" systems.




*Designed for 90°C maximum continuous operating temperature.

"STACKED STYLE" JUNCTION BAR FOR SEPARABLE CONNECTORS CATALOGUE NUMBERS





























5 POINT

Illustration (not to scale)	Description	Catalogue Number	Dimensions			Weight
			Length	Width	Height	
	5 Point 5 x 200 Amp	JBS-2A/3A-x	14 1/2" 368 mm	8" 203 mm	4 3/4" 121 mm	30.0 lb 13.5 kg
	5 Point 2 x 200 Amp	JBS-2A/3B-x	14 1/2" 368 mm	8" 203 mm	8" 203 mm	39.0 lb 17.5 kg
	5 Point 2 x 600 Amp 1 x 200 Amp 2 x 600 Amp	JBS-2B/1A/2B-x	11 1/2" 292 mm	10 1/2" 267 mm	10" 254 mm	50.0 lb 23.0 kg

6 POINT

Illustration (not to scale)	Description	Catalogue Number	Dimensions			Weight
			Length	Width	Height	
	6 Point 6 x 200 Amp	JBS-3A/3A-x	17" 432 mm	8" 203 mm	4 3/4" 121 mm	36.0 lb 16.5 kg
	6 Point 3 x 200 Amp 1 x 600 Amp 2 x 200 Amp	JBS-3A/1B/2A-x	17" 432 mm	8" 203 mm	8" 203 mm	39.0 lb 17.5 kg
	6 Point 3 x 200 Amp 1 x 200 Amp 2 x 600 Amp	JBS-3A/1A/2B-x	17" 432 mm	8" 203 mm	8" 203 mm	42.0 lb 19.0 kg

200 Amp, 600 Amp & 900 Amp Junction Bars | Combination 200/600 Amp Junction Bars

Illustration (not to scale)	Description	Catalogue Number	Dimensions			Weight	Illustration (not to scale)	Description	Catalogue Number	Dimensions			Weight
			Length	Width	Height					Length	Width	Height	
	2 Point 200 Amp	JB-2A-x	8 1/2" 216 mm	4" 102 mm	4 3/4" 121 mm	9.0 lb 4.0 kg		3 Point 1 x 200 Amp 2 x 600 Amp	JB-1A/2B-x	13" 330 mm	4" 102 mm	8" 203 mm	21.0 lb 9.5 kg
	3 Point 200 Amp	JB-3A-x	13" 330 mm	4" 102 mm	4 3/4" 121 mm	14.0 lb 6.5 kg		3 Point 1 x 600 Amp 1 x 200 Amp 1 x 600 Amp	JB-1B/1A/1B-x	13" 330 mm	4" 102 mm	8" 203 mm	21.0 lb 9.5 kg
	4 Point 200 Amp	JB-4A-x	17" 432 mm	4" 102 mm	4 3/4" 121 mm	19.0 lb 8.5 kg		3 Point 2 x 200 Amp 1 x 600 Amp	JB-2A/1B-x	13" 330 mm	4" 102 mm	8" 203 mm	18.0 lb 8.0 kg
	5 Point 200 Amp	JB-5A-x	21" 533 mm	4" 102 mm	4 3/4" 121 mm	23.0 lb 10.5 kg		4 Point 1 x 200 Amp 3 x 600 Amp	JB-1A/3B-x	17" 432 mm	4" 102 mm	8" 203 mm	27.0 lb 12.0 kg
	6 Point 200 Amp	JB-6A-x	25" 635 mm	4" 102 mm	4 3/4" 121 mm	27.0 lb 12.0 kg		4 Point 2 x 200 Amp 2 x 600 Amp	JB-2A/2B-x	17" 432 mm	4" 102 mm	8" 203 mm	24.0 lb 11.0 kg
	2 Point 600 Amp	JB-2B-x	8 1/2" 216 mm	4" 102 mm	8" 203 mm	18.0 lb 8.0 kg		4 Point 3 x 200 Amp 1 x 600 Amp	JB-3A/1B-x	17" 432 mm	4" 102 mm	8" 203 mm	21.0 lb 9.5 kg
	3 Point 600 Amp	JB-3B-x	13" 330 mm	4" 102 mm	8" 203 mm	24.0 lb 11.0 kg		5 Point 1 x 200 Amp 4 x 600 Amp	JB-1B/2A/1B-x	17" 432 mm	4" 102 mm	8" 203 mm	24.0 lb 11.0 kg
	4 Point 600 Amp	JB-4B-x	17" 432 mm	4" 102 mm	8" 203 mm	30.0 lb 13.5 kg		5 Point 2 x 200 Amp 3 x 600 Amp	JB-1A/4B-x	21" 533 mm	4" 102 mm	8" 203 mm	35.0 lb 16.0 kg
	5 Point 600 Amp	JB-5B-x	21" 533 mm	4" 102 mm	8" 203 mm	38.0 lb 17.0 kg		5 Point 4 x 200 Amp 1 x 600 Amp	JB-2A/3B-x	21" 533 mm	4" 102 mm	8" 203 mm	32.0 lb 12.0 kg
	6 Point 600 Amp	JB-6B-x	25" 635 mm	4" 102 mm	8" 203 mm	45.0 lb 20.5 kg		5 Point 4 x 200 Amp 1 x 600 Amp	JB-4A/1B-x	21" 533 mm	4" 102 mm	8" 203 mm	26.0 lb 12.0 kg
	2 Point 900 Amp	JB-2H-x	8 1/2" 216 mm	4" 102 mm	8" 203 mm	18.0 lb 8.0 kg		5 Point 1 x 600 Amp 3 x 200 Amp 3 x 600 Amp	JB-1B/3A/1B-x	21" 533 mm	4" 102 mm	8" 203 mm	29.0 lb 13.0 kg
	3 Point 900 Amp	JB-3H-x	13" 330 mm	4" 102 mm	8" 203 mm	24.0 lb 11.0 kg		6 Point 3 x 200 Amp 3 x 600 Amp	JB-3A/3B-x	25" 635 mm	4" 102 mm	8" 203 mm	36.0 lb 16.5 kg
	4 Point 900 Amp	JB-4H-x	17" 432 mm	4" 102 mm	8" 203 mm	30.0 lb 13.5 kg		6 Point 1 x 600 Amp 4 x 200 Amp 1 x 600 Amp	JB-1B/4A/1B-x	25" 635 mm	4" 102 mm	8" 203 mm	33.0 lb 15.0 kg
	5 Point 900 Amp	JB-5H-x	21" 533 mm	4" 102 mm	8" 203 mm	38.0 lb 17.0 kg							
	6 Point 900 Amp	JB-6H-x	25" 635 mm	4" 102 mm	8" 203 mm	45.0 lb 20.5 kg							

SELECTION REMINDERS:

- Standard rating for all junction bars:
Voltage: to 35 kV, Impulse Voltage: 150 kV BIL, Corona Extinction: to 26 kV BIL
- All junction bars are standard equipped with protective covers and mounting brackets or "U" straps. Parking stands are optional.
- Many combinations of 200, 600 or 900 Amp junction bars are available. Create your unique junction bar requirement, then contact factory.

ORDERING:

- Determine the following: a) Maximum voltage, kV b) Current rating, Amp c) Number of positions required for installation.
 - Select catalogue number of junction bar.
 - Provide the maximum voltage, kV and substitute its corresponding corona extinction value for x in the catalog number.
 - Specify if mounting brackets, "U" straps or parking stands are required.
- Example: 25 kV (corona extinction = 19 kV), 200 Amp, 4 point

Junction Bar Catalogue Number JB-4A-19



CAPNUT TERMINATION (POTHEADS)

CAPNUT TERMINATIONS (POTHEADS) 7.5/15/25KV

Patton & Cooke offers capnut terminations (potheads) for single and three conductor cable systems. Potheads are designed for use where insulated cables are connected to generators, switchgear transformers, overhead lines, or sectionalizing equipment. These terminations are suitable for use with common cable types including: extruded dielectric cable paper insulated lead cable and teck cable.

- Voltage ratings of 5, 8.7, 15, and 25 kV.
- Single and three conductor.
- Accept #4 to 2000 MCM conductor sizes.
- Indoor 3 phase units can be in parallel or divergent bushing orientation.
- Wide selection of aerial lugs and entrance fittings.



CAPNUT TERMINATIONS CATALOGUE NUMBERS

Special Feature	Code
Large body	G
Undersize body	U

Special Feature	Code
Plate mounted	P
Parallel bushing	L
Parallel bushing & plate mounted	Q
Cast flange	X

Max Cond. Size	Code
#4	1
1/0	2
2/0	11
250 MCM	3
350 MCM	3.5
500 MCM	4

Max Cond. Size	Code
600 MCM	10
750 MCM	5
1,000 MCM	6
1,250 MCM	7
1,500 MCM	8
2,000 MCM	9

Aerial Lugs	Code
Universal Clamp	1
Bus Type-2 Nema	2N
Bus Type-2 Nema Angled	2ND
Bus Type-4 Nema	4N
Bus Type-Horz Surface	5

Indoor	Code
Indoor	N
Outdoor	T

Body Shape	Code
Round	R
Flat	F
45 Degree	D
Back	B
Side	S

Voltage	Code
5,000 V	3
8,700 V	4
15,000 V	5
25,000 V	6

No. of Conductors
1
2
3
4









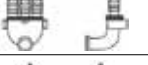
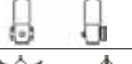

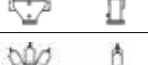






Entrance Fitting	Code
Wiping Sleeve	WS
Inv Wiping Sleeve	WSV
Wip SI & Arm CI	WSAC
Stuffing Box	SB
DbI Plate Stuff Box	DPL
Stuff Box & Arm CI	SBAC
Steel Wire Arm CI	SWAC
Conduit Coupling	CC
Stuff Box & Cond	SBCC
Teck Fitting	SBT

ORDERING:

1. Determine the following: a) Single or three conductor b) Outdoor or indoor use c) Maximum voltage, kV d) Parallel or divergent bushings and body style for three conductors.
2. Provide the maximum cable size, from #4 to 2000 MCM, from Table A below and substitute appropriate code for x in catalogue number.
3. Specify a) the type of entrance fitting and b) the type of aerial lugs required for overhead conductors, from Tables B and C below.

Example: Three conductors, outdoor, 15 kV, 500 MCM max. cable, divergent bushings, flat body shape, wiping sleeve equipped for cable entry and universal clamp type aerial lugs.

Capnut Termination Catalogue Number: TF-354-WS-1

Illustration (not to scale)	Description	Catalogue Number			
		5 kV	8.7 kV	15 kV	25 kV
	Single Conductor Round Shape (Outdoor)	TR-31 _x	TR-41 _x	TR-51 _x	TR-61 _x
	Three Conductor Flat Shape Divergent (Outdoor)	TF-33 _x	TF-43 _x	TF-53 _x	TF-63 _x
	Three Conductor Flat Shape Parallel (Outdoor)	TLF-33 _x	TLF-43 _x	TLF-53 _x	TLF-63 _x
	Three Conductor Side Shape (Outdoor)	TS-33 _x	TS-43 _x	TS-53 _x	TS-63 _x
	Three Conductor Side Shape Parallel (Outdoor)	TLS-33 _x	TLS-43 _x	TLS-53 _x	TLS-63 _x
	Three Conductor 45 Degree Shape Divergent (Outdoor)	TD-33 _x	TD-43 _x	TD-53 _x	TD-63 _x
	Three Conductor 45 Degree Shape Parallel (Outdoor)	TLD-33 _x	TLD-43 _x	TLD-53 _x	TLD-63 _x
	Three Conductor Back Shape Divergent (Outdoor)	TB-33 _x	TB-43 _x	TB-53 _x	TB-63 _x
	Three Conductor Back Shape Parallel (Outdoor)	TLB-33 _x	TLB-43 _x	TLB-53 _x	TLB-63 _x
	Single Conductor Round Shape (Indoor)	NR-31 _x	NR-41 _x	NR-51 _x	NR-61 _x
	Three Conductor Flat Shape Divergent (Indoor)	NF-33 _x	NF-43 _x	NF-53 _x	NF-63 _x
	Three Conductor Flat Shape Parallel (Indoor)	NLF-33 _x	NLF-43 _x	NLF-53 _x	NLF-63 _x
	Three Conductor Side Shape Divergent (Indoor)	NS-33 _x	NS-43 _x	NS-53 _x	NS-63 _x
	Three Conductor Side Shape Parallel (Indoor)	NLS-33 _x	NLS-43 _x	NLS-53 _x	NLS-63 _x
	Three Conductor 45 Degree Shape Divergent (Indoor)	ND-33 _x	ND-43 _x	ND-53 _x	ND-63 _x
	Three Conductor 45 Degree Shape Parallel (Indoor)	NLD-33 _x	NLD-43 _x	NLD-53 _x	NLD-63 _x
	Three Conductor Back Shape Divergent (Indoor)	NB-33 _x	NB-43 _x	NB-53 _x	NB-63 _x
	Three Conductor Back Shape Parallel (Indoor)	NLB-33 _x	NLB-43 _x	NLB-53 _x	NLB-63 _x

SELECTION REMINDERS:

1. Stress cone kits and potting compound are sold separately.
2. Complete catalogue number listings are available for all capnut terminations shown above. Contact factory to receive separate listings.

TABLE A: Cable Sizes

Description		Catalogue Number Suffix-x
21	#4	1
54	1/0	2
127	250 MCM	3
178	350 MCM	3.5
254	500 MCM	4
380	750 MCM	5
507	1,000 MCM	6
633	1,250 MCM	7
760	1,500 MCM	8
1013	2,000 MCM	9

TABLE C: Aerial Lugs
















Illustration (not to scale)	Description	Catalogue Number Suffix-x
	Universal Clamp Type	1
	Bus Type for Vertical Surface (NEMA standard)	2N
		2ND
		4N
	Bus Type for Horizontal Surface	5

TABLE B: Entrance Fittings

Illustration (not to scale)	Description	Catalogue Number Suffix
	Wiping Sleeve	WS
	Inverted Wiping Sleeve	WSV
	Wiping Sleeve & Armour Clamp	WSAC
	Stuffing Box	SB
	Double Plate Stuffing Box	DPL
	Stuffing Box & Armour Clamp	SBAC
	Steel Wire Armour Clamp	SWAC
	Conduit Coupling	CC
	Stuffing Box & Conduit Coupling	SBCC
	Teck Fitting	SBT

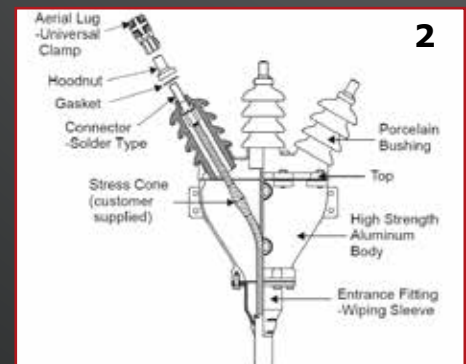
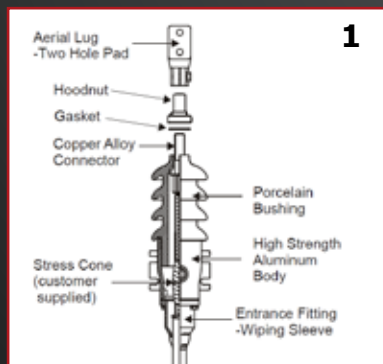
ELECTRICAL RATINGS FOR CAPNUT TERMINATIONS

Description	5 kV Class Ratings	15 kV Class Ratings	25 kV Class Ratings
BIL	75 kV	110 kV	150 kV
CURRENT RATING (Amp)	Same as Cable		
WITHSTAND VOLTAGE			
AC (1 minute, dry)	25 kV	50 kV	65 kV
AC (6 hours, dry)	15 kV	35 kV	55 kV
AC (10 seconds, wet)	25 kV	45 kV	60 kV
DC (15 minutes, dry)	50 kV	75 kV	105 kV



FIGURE 1: Cut-away view of a single conductor capnut termination, **TR-51x-WS-2N**

FIGURE 2: Cut-away view of a three conductor capnut termination, **TF-53x-WS-1**





CABLE TRANSITION MODULES

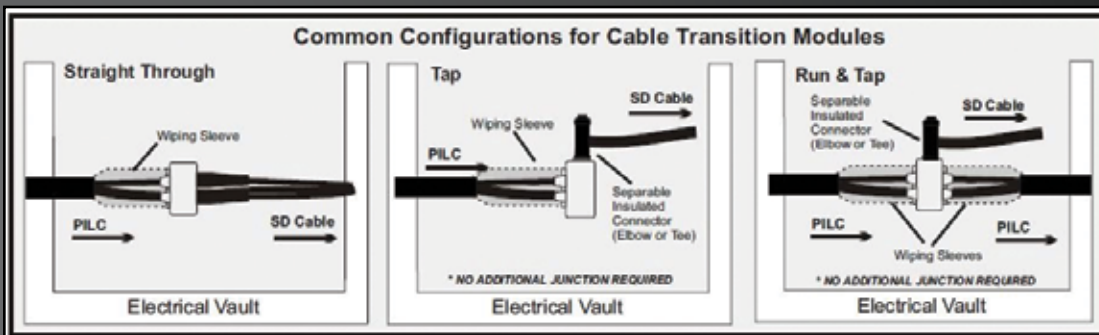
CABLE TRANSITION MODULES 15/25 KV

Patton & Cooke cable transition modules (CTMs) incorporate all of the features of the electroplastic product line, but are designed for splicing paper insulated lead cable (PILC) into solid dielectric cable. CTM modules allow easy and reliable construction of single phase taps or splices from PILC distribution cable feeders. The Patton & Cooke cable transition module is the only product available that permits the direct connection of separable insulated connectors in a splice of this type.

Module Type	Illustration	Space Requirements (in inches)	
		Length	Height
Straight Through		54"	12"
Tap		48"	24"
Run & Tap		84"	24"

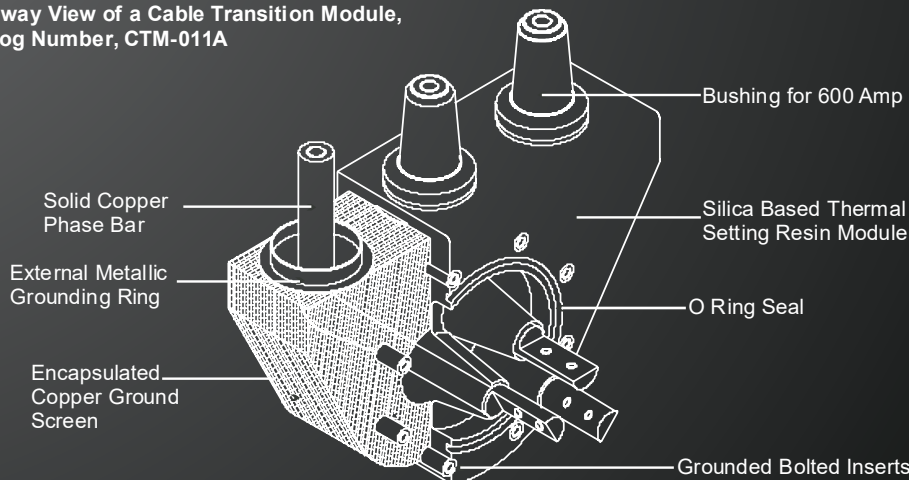
Patton & Cooke CTMs are available in the following orientations:

- Tap
- Straight through
- Run and tap



CABLE TRANSITION INSTALLATION ACCESSORIES

FIGURE 1: Cut-away View of a Cable Transition Module, Catalog Number, CTM-011A



- Wiping sleeves in 12", 18", 25" overall lengths (Voltage Based)
- Wiping flanges
- Solder lugs (included)
- Mounting saddles
- Mounting brackets

Application: Paper Insulated Lead Cable (PILC) Run to Solid Dielectric Tap


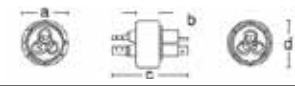
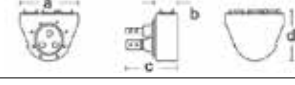
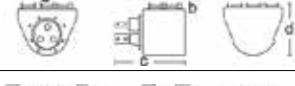


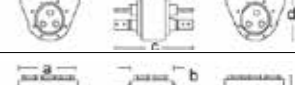


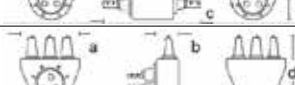
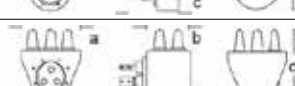
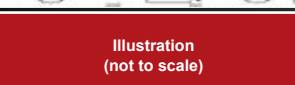
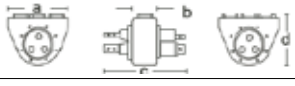

Illustration (not to scale)	Voltage Class	Description				Catalogue Number	Dimensions				Weight				
		Transition	Dielectric Tap		PILC Tap		a	b	c	d					
	15 or 25 kV	Straight Through	200 Amp	3 Point		NA	CTM-005A	8 1/2" 216 mm	4" 102 mm	9 5/8" 406 mm	8 1/2" 216 mm	18 lb 8 kg			
			600 Amp	3 Point			CTM-012A	9 1/4" 235 mm	2" 51 mm	12 1/2" 318 mm	9 1/4" 235 mm	20 lb 9 kg			
		Tap	200 Amp	3 Point		NA	CTM-015A	14" 356 mm	4 1/2" 114 mm	10 1/4" 260 mm	10" 254 mm	33 lb 15 kg			
				6 Point			CTM-025A	14" 356 mm	9" 229 mm	14 3/4" 375 mm	9 7/8" 251 mm	62 lb 28 kg			
				3 Point			CTM-011A	14" 356 mm	4 1/2" 114 mm	10 1/4" 260 mm	14" 356 mm	36 lb 16 kg			
				6 Point			CTM-020A	14" 356 mm	9" 229 mm	14 3/4" 375 mm	14" 356 mm	68 lb 31 kg			
				Run & Tap	200 Amp		3 Point		600 Amp	CTM-010A	14" 356 mm	4 1/2" 114 mm	16" 406 mm	9 7/8" 251 mm	37 lb 17 kg
							6 Point			CTM-024A	14" 356 mm	9" 229 mm	20 1/2" 521 mm	9 7/8" 251 mm	66 lb 30 kg
		3 Point				CTM-009A	14" 356 mm	4 1/2" 114 mm		16" 406 mm	14" 356 mm	40 lb 18 kg			
		6 Point				CTM-019A	14" 356 mm	9" 229 mm		20 1/2" 521 mm	14" 356 mm	72 lb 33 kg			
		35 kV	Tap	3 Point		NA	CTM-033A	15 3/4" 400 mm	5 9/16" 141 mm	17 1/4" 438 mm	16 1/4" 413 mm	84 lb 38 kg			
				6 Point			CTM-034A	15 3/4" 400 mm	11 1/8" 283 mm	22 3/4" 578 mm	16 1/4" 413 mm	152 lb 69 kg			

Illustration (not to scale)	Voltage Class	Description				Catalogue Number	Dimensions				Weight		
		Transition	Dielectric Tap		Dielectric Tap		a	b	c	d			
	15 or 25 kV	Straight through Tap	200 Amp	3 Point		600 Amp	3 Point	CTM-029A	14" 356 mm	4 1/2" 114 mm	14 1/2" 362 mm	10" 254 mm	40 lb 18 kg
			600 Amp	3 Point				CTM-030A	14" 356 mm	4 1/2" 114 mm	14 1/4" 362 mm	14" 356 mm	46 lb 21 kg

SELECTION REMINDERS:

- Standard ratings for 15 or 25 kV cable transition modules: Impulse Voltage: 95 or 125 kV BIL, Corona Extinction: 11 or 19 kV
Standard ratings for 35 kV cable transition modules: Impulse Voltage: 150 kV BIL, Corona Extinction: 26 kV
- All cable transition modules are standard equipped with solder lugs and protective covers.
- Entrance fittings and mounting brackets are sold separately.
See Tables A and B on the following page.
- All cable transition modules are for use with molded separable insulated connectors.
- Standard modules are for horizontal mounting. For unique transition splicing requirements, contact factory.
- For 900 Amp application, contact factory.
- Weights and dimensions are approximate.

Table A: Entrance Fittings




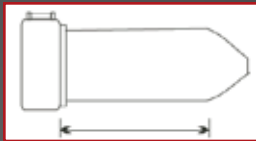
Illustration (not to scale)	Description	Voltage Class	Catalogue Number	Illustration (not to scale)	Description	Voltage Class	Catalogue Number
	Wiping Sleeve	15 kV	WS-11-12		Wiping Flange	15 kV	WS-12
		25 kV	WS-11-18			25 kV	
		35 kV	WS-016A-25			35 kV	WS-17

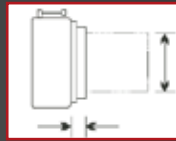
Table B: Mounting Bracket

Illustration (not to scale)	Description	Voltage Class	Catalogue Number
	Saddle	15 kV	BRK-469
		25 kV	
		35 kV	BRK-467



12" (305 mm) for 15 kV
18" (457 mm) for 25 kV
25" (635 mm) for 35 kV

FIGURE 2: Cable Transition Module shown with Wiping Sleeve



1 3/4" (44 mm) for 15 kV and 25 kV
2" (51 mm) for 35 kV

FIGURE 3: Cable Transition Module supported by Wiping Flange

Lead Pipe Diameter
6 3/8" (162 mm) for 15 and 25 kV
8 17/64" (210 mm) for 35 kV

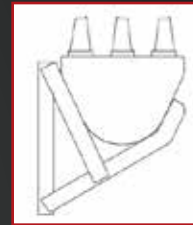


FIGURE 4: Cable Transition Module supported by Mounting Saddle

ELECTRICAL RATINGS FOR CABLE TRANSITION MODULES

Description	15 kV Class Ratings	25 kV Class Ratings	35 kV Class Ratings
OPERATING VOLTAGE (Maximum continuous line-to-ground, 100% insulation system)	8.3 kV	15.2 kV	21.1 kV
BIL (@ 1.2 x 50 microsecond wave)	95 kV	125 kV	150 kV
WITHSTAND VOLTAGE AC (1 minute) DC (15 minutes)	34 kV 53 kV	40 kV 78 kV	50 kV 103 kV
CORONA EXTINCTION LEVEL (min. @3pC)	11 kV	19 kV	26 kV
CURRENT 200 A Class Products Continuous operation: Short-time: 600 A Class Products Continuous operation: Short-time:	200A * 10 kA sym. 10 cycles 600 A * 25 kA sym. 10 cycles		

All separable connectors are designed and manufactured to ANSI/IEEE Standard 386 and tested in accordance with IEEE #48.

Ratings are based on ANSI/IEEE standards and do not reflect maximum levels.

Application Considerations: This product is designed for use on grounded "Y" systems. *Designed for 90°C maximum continuous operating temperature. **For 900 Amp applications, contact factory.**

ORDERING:

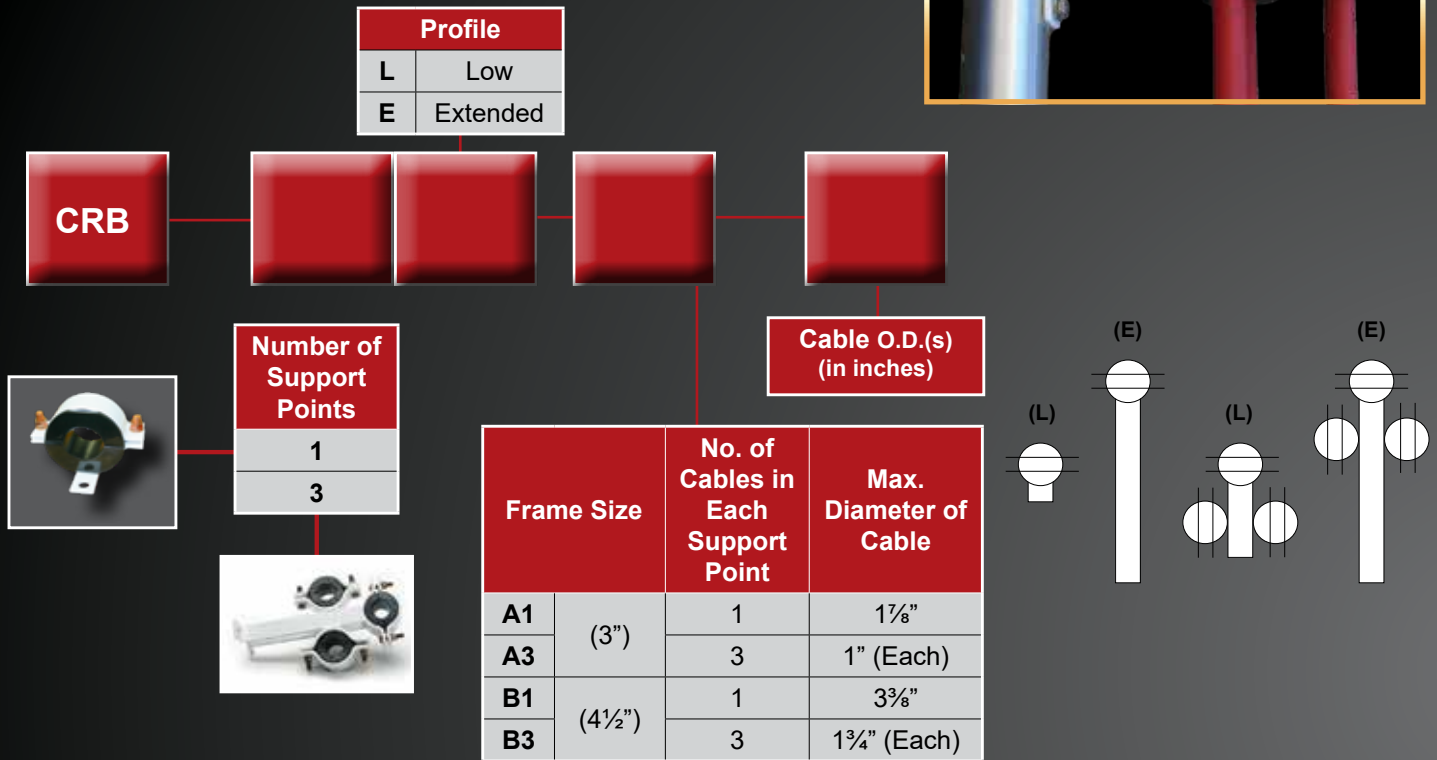
1. Determine the following: A) Maximum voltage, kV, B) Current Rating of tap(s), Amp, C) Transition Configuration
2. Select catalogue number of cable transition module.
3. Provide the conductor size and type of the cable.
- 4) Specify if a mounting bracket or entrance fitting is required.

Example: 15 kV, 600 Amp with 3 point, 200 Amp tap, run and tap transition configuration:

Cable Transition Module Catalogue Number: CTM-010A

CABLE RISER BRACKETS

Patton & Cooke cable riser brackets attach insulated cable, conduit, or piping to walls, roofs, and poles. The brackets keep the cable supported and out of harms way.



* Test done using 8 kV, 3 phase MP.GC cable. Cable Pullout: 470lbs.

ORDERING:

- Determine the following:
 - Number of support points (1 or 3)
 - Profile type (Low or Extended)
 - Frame size, number of cables in each support point
 - Cable O.D.(in inches)
 - Select catalogue number of cable riser bracket.
 - Make sure that the outside diameter of the cable does not exceed the maximum cable diameter listed.
- For custom cable riser bracket design, contact Patton & Cooke.



Example: One support point, with a low profile, 3" frame size with 3 cables with 0.90" Cable O.D.

Catalogue number: CRB-1L-A3-0.90

ENCLOSURES 8/15/25 KV

Patton & Cooke's enclosures are custom built to suit your needs. Whether for fixed and portable application, Patton & Cooke enclosures are built to meet our high standards and your specifications. The enclosures can be supplied for indoor or outdoor locations and for underground use in mining applications. Enclosure designs are available up to 35 kV with a range of options.

All enclosures are fitted with:

- External grounding points.
- Convenient lifting points for ease of handling.



Material Options	Style	Interior Options	Exterior Options	Finish
<p>Nema 4/mild steel</p> <p>Nema 4x/stainless steel</p>	<p>Free standing</p> <p>Pad mount</p> <p>Skid mount</p> <p>Wall mount</p>	<p>Stand off insulators</p> <p>Copper bus</p> <p>Cam clamps or compression lugs</p> <p>Copper grounding points</p> <p>Separable insulated connection junctions</p>	<p>Viewing window</p> <p>Power on indicators</p> <p>Entrance fittings/glands</p> <p>Single or three phase cable couplers</p>	<p>Powder coated finish in a wide range of colour options</p> <p>High voltage warning labels</p>

STAND OFF INSULATORS

Patton & Cooke stand off insulators are cast from thermal setting resin and suitable for indoor applications. Stand off insulators are designed for spacing bus or connectors.



Voltage Class (kV)	Impulse Voltage (kV BIL)	Patton & Cooke Catalogue No.	Dimensions				Weight	
			Height		Diameter		(kg)	(lb)
			(mm)	(in)	(mm)	(in)		
2.5	45	IN-2.5EN-x y	64	2.50	51	2.00	0.23	0.50
5	60	IN-5NE-x y	89	3.50	102	4.00	1.14	2.50
7.5	75	IN-7NE-x y	114	4.50	102	4.00	1.36	3.00
15	95	IN-15LNE-x y	152	6.00	102	4.00	1.82	4.00
	110	IN-15HNE-x y	191	7.50	102	4.00	2.04	4.50
25	150	IN-25NE-x y	267	10.50	102	4.00	2.72	6.00

No. of Holes	Bolt Size	Bolt Circle		Catalogue No. Suffix x or y
		(mm)	(in)	
1	½"-13 NC			A
	¾"-10 NC			F
	⅝"-16 NC			D
	⅝"-11 NC			M
2	⅝"-16 NC	29	1 1/8"	T

No. of Holes	Bolt Size	Bolt Circle		Catalogue No. Suffix x or y
		(mm)	(in)	
2	⅝"-16 NC	51	2	B
	½"-13 NC	76	3	L
	⅝"-16 NC	76	3	V
4	⅝"-16 NC	51	2	C
	½"-13 NC	76	3	E

600 SERIES-HYDROPHOBIC INSULATORS 15 KV TO 25 KV

DESIGN

EMC Pacific 600 Series moulded solid core HH-CEP* epoxy resin line insulator with a type A or C pin pattern (Australia) or ANSI 56 pin pattern (North America).

STANDARDS

EMC Pacific pin insulators are designed to meet or exceed the Polymeric Resin Insulator requirements of IEC & AS 62217 (2007) and the relevant performance requirements of AS IEC 60720 (2007), AS/NZS2947.2 (2002) AS4899 (2007), AS4435.4 (2005), IEC61952 (2008), ANSI C29.5 (1984) and CEA LWIWG-02.

QUALITY

Each insulator is put through stringent quality assurance in line with the EMC Pacific ISO9001 Quality Management System, and every product is uniquely identifiable from a UNI (Unique Identification Number) located at the base.

ORDERING

Insulators are supplied with either A or C type:

- ANSI 56.1" pin pattern (North America)

Please specify insert selection with order.



Specifications

Product Number	PI 600 HH-CEP	
For Line Voltage	15/25	kV
Lightning Impulse Voltage	160(w)	kV
Dry Power Frequency Voltage	103(f)	kV
Wet Power Frequency Voltage	94(w)	kV
Dry Arc Distance	11.9	in
Creepage	23.6	in
Cantilever	2400	lbf
Minimum Tensile Failing Load	4500	lbf
Insulator Height	10.9	in
Maximum Shed Diameter	6.4	in
Weight	6.8	lbs

(f) denotes tested flashover value (w) denotes tested withstand value

*Hydrophobic Cycloaliphatic Epoxy Resin (patent applied)

Specification and product design are subject to change without notice.

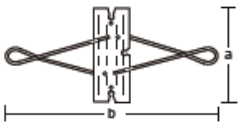
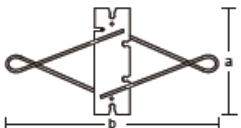
All information is accurate at time of printing.

Manufactured in Australia by EMC Pacific Pty Ltd.



MID-SPAN BRACKETS

Patton & Cooke mid span brackets are used to support secondary power lines to residences from overhead power lines.

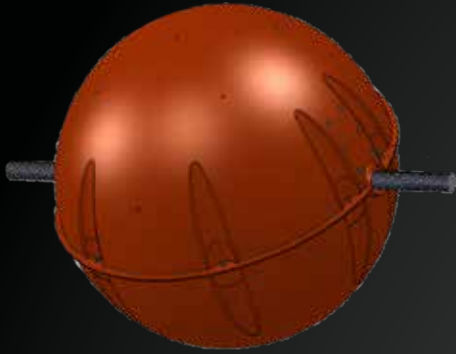
Illustration	Patton & Cooke Catalogue No.	Description	Dimensions				Weight	
			Width		Height		(kg)	(lb)
			(mm)	(in)	(mm)	(in)		
	SSB-375A	For use with three (3) conductor lines. Molded black polycarbonate base with stainless steel bails	419	16.5	390	15.4	0.5	1.1
	SSB-465	For use with four (4) conductor lines. Clear acrylic base with stainless steel bails.	533	21.0	457	18.0	0.5	1.7

INSULATED END CAPS

Insulated end caps are used for capping live conductors. Cast from Patton & Cooke's exclusive thermal setting resin, insulated end caps are custom fitted with superior insulating properties.



Voltage Class (kV)	Cable Type	Conductor Size	Patton & Cooke Catalogue No.	Dimensions					
				Length		Width 1		Width 2	
				(mm)	(in)	(mm)	(in)	(mm)	(in)
13	Compact Sector	#3/0 AWG	CAP-015	102	4	25	0.97	29	1.16
		300 MCM	CAP-014	110	4.31	32	1.25	36	1.41
		400 MCM	CAP-006	110	4.31	44	1.72	49	1.94
		500 MCM	CAP-013	110	4.31	35	1.38	39	1.54
		600 MCM	CAP-005	110	4.31	47	1.84	53	2.10
15	Compact Sector	#2/0 AWG	CAP-TH3	110	4.31	35	1.25	40	1.41
		350 MCM	CAP-012	110	4.31	38	1.50	42	1.66
		500 MCM	CAP-TH4	110	4.31	49	1.84	53	2.10
	Round	#2/0 AWG	CAP-TH1	110	4.31	30	1.17	35	1.34
		350 MCM	CAP-010	110	4.31	32	1.25	36	1.41
		500 MCM	CAP-011	110	4.31	35	1.38	39	1.54
25	Compact Sector	350 MCM	CAP-005	110	4.31	47	1.84	53	2.10
		500 MCM	CAP-007	110	4.31	52	2.06	58	2.28



AIRCRAFT WARNING MARKERS

Patton & Cooke aircraft markers have many years of field proven service making transmission and distribution lines clearly visible. Aircraft warning markers are manufactured of light weight, ultraviolet and weather resistant ABS and are designed for use in live/energized and static line conditions, and are thru wire attached using armor rod methodology.

Illustration (not to scale)	Voltage Class (kV)	Diameter		Colour	Patton & Cooke Catalogue No.	Weight w/o Armor Rods	
		mm	in			kg	lb
	Static Line or Up to 138 kV Live Line	915 mm	36"	White	10C3-36-WH/S	9 kg	20 lb
				Orange	10C3-36-OR/S		
				Yellow	10C3-36-Y/S		

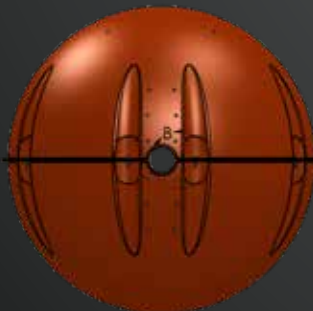
SELECTION REMINDERS:

1. These aircraft warning markers are suitable for mounting on grounded lines or aluminum transmission lines up to 138 kV.
2. A full range of armor rods are available to cover many conductor sizes.

ORDERING:

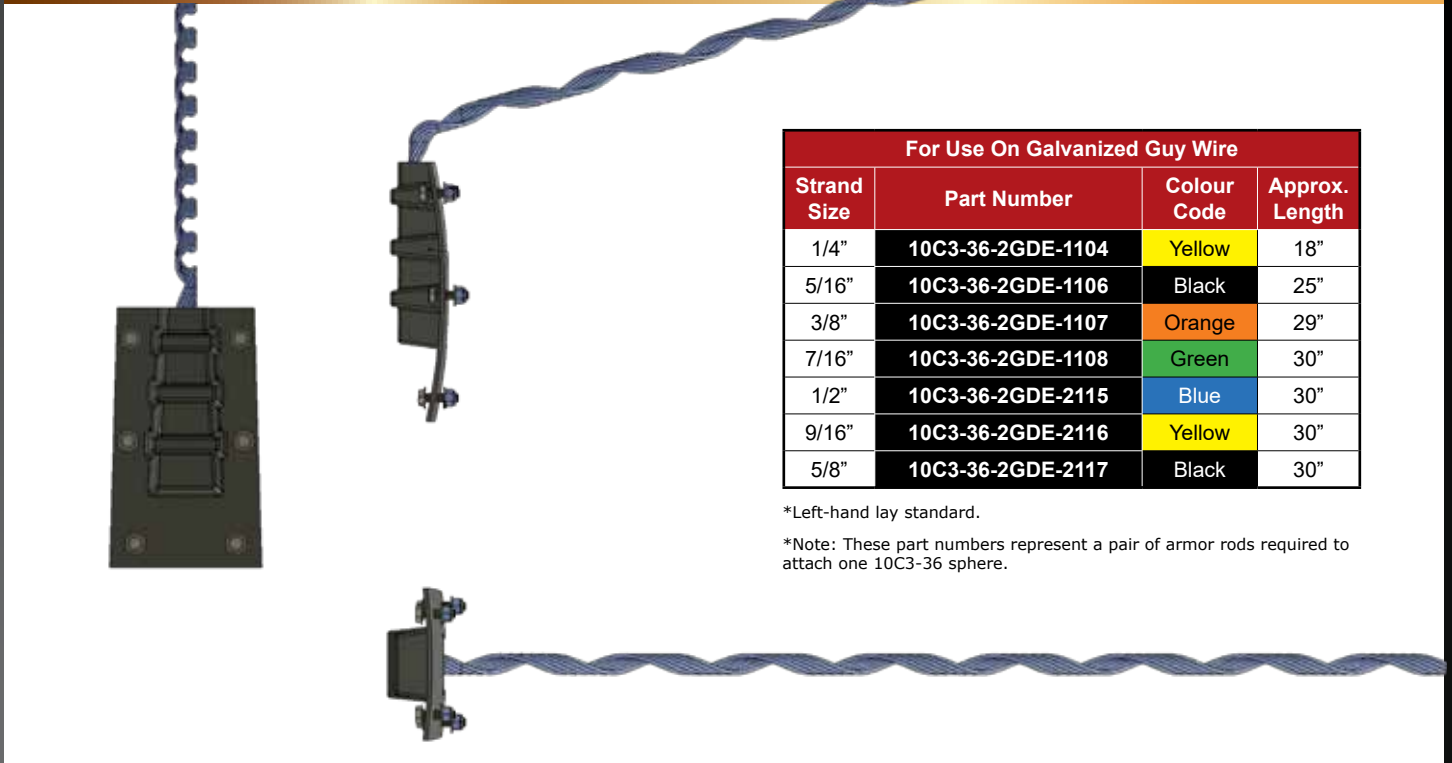
1. Determine the following:
 - a. Marker colour
 - b. Size/type of conductor/static line
2. Select catalogue number from listed parts

36" DIAMETER CLAM SHELL STYLE AIRCRAFT WARNING MARKER



ARMOR ROD ATTACHMENT ASSEMBLY

FOR USE WITH PATTON & COOKE 10C3-36 SERIES AIRCRAFT WARNING MARKERS



For Use On Galvanized Guy Wire			
Strand Size	Part Number	Colour Code	Approx. Length
1/4"	10C3-36-2GDE-1104	Yellow	18"
5/16"	10C3-36-2GDE-1106	Black	25"
3/8"	10C3-36-2GDE-1107	Orange	29"
7/16"	10C3-36-2GDE-1108	Green	30"
1/2"	10C3-36-2GDE-2115	Blue	30"
9/16"	10C3-36-2GDE-2116	Yellow	30"
5/8"	10C3-36-2GDE-2117	Black	30"

*Left-hand lay standard.

*Note: These part numbers represent a pair of armor rods required to attach one 10C3-36 sphere.

Catalogue Number	Diameter Range (Inches)		Nominal Conductor Size	Length (Inches)	Colour Code	Catalogue Number	Diameter Range (Inches)		Nominal Conductor Size	Length (Inches)	Colour Code
	Min.	Max.					Min.	Max.			
10C3-36-2GAR-0124	.552	.585	4/0, 6/1	26"	Red	10C3-36-2GAR-0141	1.099	1.139	795 kcmil, 26/7	46"	Orange
10C3-36-2GAR-0125	.586	.606	266.8 kcmil, 19W	27"	Black	10C3-36-2GAR-0142	1.140	1.161	954 kcmil, 36/1	46"	Purple
10C3-36-2GAR-0126	.607	.630	266.8 kcmil, 18/1	28"	Purple	10C3-36-2GAR-0143	1.162	1.208	954 kcmil, 45/7	46"	Red
10C3-36-2GAR-0127	.631	.655	266.8 kcmil, 26/7	28"	Yellow				954 kcmil, 54/7		
10C3-36-2GAR-0128	.656	.679	336.4 kcmil, 19W	29"	Brown	10C3-36-2GAR-0144	1.209	1.269	1033.5 kcmil, 37-61W	46"	Black
10C3-36-2GAR-0129	.680	.703	300 kcmil, 26/7	30"	Blue				1113 kcmil, 45/7		
10C3-36-2GAR-0130	.704	.740	336.4 kcmil, 26/7	32"	Green	10C3-36-2GAR-0145	1.270	1.327	1192.5 kcmil, 45/7	46"	White
10C3-36-2GAR-0131	.741	.782	397.5 kcmil, 18/1	32"	Orange	10C3-36-2GAR-0146	1.328	1.390	1272 kcmil, 45/7	46"	Yellow
10C3-36-2GAR-0132	.783	.814	397.5 kcmil, 26/7	34"	Purple	10C3-36-2GAR-0147	1.391	1.440	1431 kcmil, 45/7	46"	Brown
10C3-36-2GAR-0133	.815	.845	636 kcmil, 19W Comp.	34"	Red	10C3-36-2GAR-0163	1.441	1.508	1590 kcmil, 45/7	46"	Blue
						10C3-36-2GAR-0164	1.509	1.578	1590 kcmil, 54/19	46"	Green
10C3-36-2GAR-0134	.846	.907	477 kcmil, 26/7	35"	Blue	10C3-36-2GAR-0165	1.579	1.651	1780 kcmil, 84/19	46"	Orange
10C3-36-2GAR-0135	.908	.929	636 kcmil, 37W	36"	Green	10C3-36-2GAR-0166	1.652	1.728	2000 kcmil, 9/W	46"	Purple
10C3-36-2GAR-0136	.930	.976	605 kcmil, 26/7	40"	White	10C3-36-2GAR-0167	1.729	1.809	2156 kcmil, 84/19	46"	Red
10C3-36-2GAR-0137	.977	1.016	636 kcmil, 26/7	42"	Yellow	10C3-36-2GAR-0168	1.810	1.898	2500 kcmil, 91W	46"	Black
10C3-36-2GAR-0138	1.017	1.035	795 kcmil, 37-61W	43"	Brown	10C3-36-2GAR-0169	1.899	1.991		46"	White
10C3-36-2GAR-0139	1.036	1.064	715.5 kcmil, 26/7	44"	Blue	10C3-36-2GAR-0170	1.992	2.090	3500 kcmil, 127W	46"	Yellow
10C3-36-2GAR-0140	1.065	1.098	795 kcmil, 24/7	44"	Green	10C3-36-2GAR-0171	2.091	2.193	3500 kcmil, 127W	46"	Brown

*Right-hand lay standard.

*These part numbers represent a pair of armor rods required to attach one 10C3-36 sphere.

GROUND POINT FEEDERS

Patton & Cooke ground point feeders are for use in a substation and allow the safe grounding of a conductor run to the grounding system. Installation of a ground feeder in a cable run provides a connection point for the attachment of a ground wire.

Illustration	Patton & Cooke Catalogue No.	Description	Dimensions				Weight	
			Width		Height		(kg)	(lb)
			(mm)	(in)	(mm)	(in)		
	GP-017	Cast from lightweight aluminum. Equipped with zinc plated hardware.	14	5 1/2	7	3	1.4	3.0

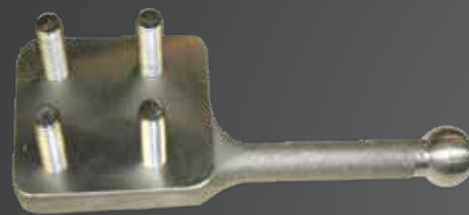
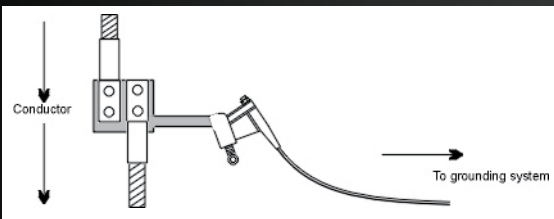


Figure 1: Ground point feeder shown installed

SPLIT SOLDER SLEEVES

For end to end solder connection of copper cable to copper cable.



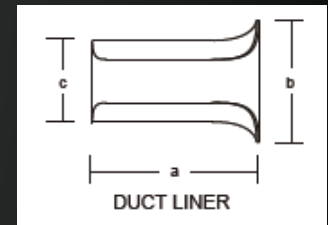
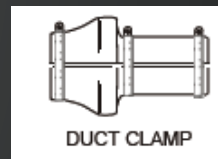
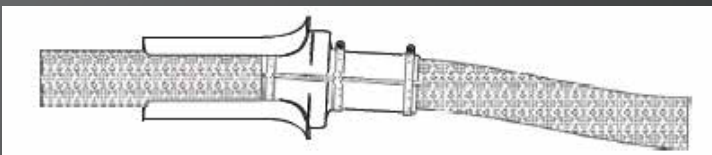
ILLUSTRATION	DESCRIPTION	RUN	TAP	Patton & Cooke Catalogue No.
	Solder Sleeve, Cable to Cable	#8 AWG - 3600 MCM	#8 AWG - 3600 MCM	FD
	Solder Sleeve, Cable to Cable	#8 AWG - 3600 MCM	#8 AWG - 3600 MCM	FH
	Cable to Cable	#8 AWG - 3600 MCM	#8 AWG - 3600 MCM	JH
	Cable to Cable, Multitap	#8 AWG - 3600 MCM	#8 AWG - 3600 MCM	JH2

DUCT CLAMPS

Patton & Cooke duct clamps provide an easy to install means for strain relief of cables passing through ducts. Duct clamps are molded from urethane and securely fastened with hose clamps for excellent cable grip. Available for single (multiconductor) cables or three single phase cables.



Cable Diameter		Patton & Cooke Catalogue No.						
(mm)	(in)	Duct Size						
		51mm 2"	64mm 2.5"	76mm 3"	89mm 3.5"	102mm 4"	127mm 5"	152mm 6"
15.9-22.2	0.625-0.875	DU-037A	DU-038A	DU-039A	DU-041A	DU-042A	DU-043A	DU-044A
22.3-28.5	0.876-1.125	DU-037B	DU-038B	DU-039B	DU-041B	DU-042B	DU-043B	DU-044B
28.6-34.9	1.126-1.375	DU-037C	DU-038C	DU-039C	DU-041C	DU-042C	DU-043C	DU-044C
35.0-41.2	1.376-1.625	-----	DU-038D	DU-039D	DU-041D	DU-042D	DU-043D	DU-044D
41.3-47.6	1.626-1.875	-----	DU-038E	DU-039E	DU-041E	DU-042E	DU-043E	DU-044E
47.7-53.9	1.876-2.125	-----	-----	DU-039F	DU-041F	DU-042F	DU-043F	DU-044F
54.0-60.3	2.126-2.375	-----	-----	DU-039G	DU-041G	DU-042G	DU-043G	DU-044G
60.4-66.6	2.376-2.625	-----	-----	-----	DU-041H	DU-042H	DU-043H	DU-044H
66.7-73.0	2.626-2.875	-----	-----	-----	DU-041J	-----	DU-043J	DU-044J
73.1-79.3	2.876-3.125	-----	-----	-----	-----	-----	DU-043K	DU-044K
79.4-85.7	3.126-3.375	-----	-----	-----	-----	-----	DU-043L	DU-044L



DUCT LINERS

Patton & Cooke duct liners provide a barrier between cable and duct entrances in vault installations. Duct liners protect cable from abrasion damage caused by contact with duct's rough surface. For maximum cable strain relief, Patton & Cooke duct clamps should be used with Patton & Cooke duct liners.



Duct Size		Patton & Cooke Catalogue No.	Dimensions					
(mm)	(in)		Length		Diameter 1		Diameter 2	
			(mm)	(in)	(mm)	(in)	(mm)	(in)
102	4	5M52-32	165	6.50	159	6.25	117	4.63
127	5	5M52-40	300	11.81	240	9.45	150	5.91



UTILITY PRODUCTS

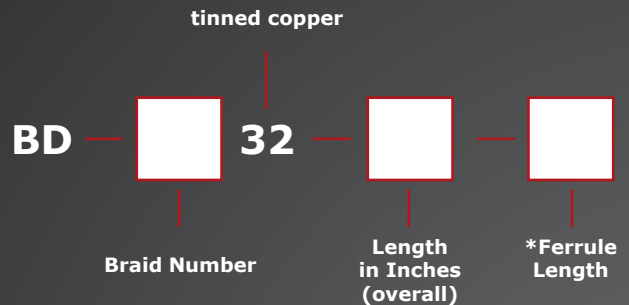
FLEXIBLE TINNED COPPER BRAID

Flexible Copper Braid assemblies consist of seamless copper ferrules, pressed onto flexible, braided and tinned copper wires. Flexible braid is an ideal solution for rigid bus application and expansion joints. For custom lengths, and/or other arrangements, please consult factory.



Braid Number	Amp	Ferrule Size
2	430 A	1/4" x 1 1/4"
3	550 A	3/8" x 1 1/4"
4	640 A	1/2" x 1 1/4"
5	720 A	5/8" x 1 1/4"
6	820 A	3/4" x 1 1/4"
7	870 A	7/8" x 1 1/4"
8	920 A	1" x 1 1/4"
9	1000 A	1 1/8" x 1 1/4"

For higher current ratings or other custom braid arrangements, contact factory



Ferrule Details			
A	3" Ferrule 2 x 9/16" Holes 1 3/4" Centers		
B	4" Ferrule 2 x 9/16" Holes 1 3/4" Centers		
X	Custom		
1st Ferrule	Ferrule Length:	Hole Centers:	Hole Diameter:
2nd Ferrule (Same as first)	Ferrule Length:	Hole Centers:	Hole Diameter:

PATTON & COOKE COMMERCIAL & INDUSTRIAL COUPLERS

Trailing cable couplers have been widely used to connect medium voltage equipment in mining, port and mobile applications. As power demands are continually increasing, industry, utilities, and large industrial consumers are looking to cable couplers to provide safe, reliable, and convenient solutions for making connections.

As industrial equipment and systems grow, maintenance and costs associated with downtime are critical factors. Cable couplers can replace hard wired connectors, enabling critical components such as cables, motors or switchgear to be changed out with greater speed and with less reliance on electrical personnel. From port cranes to large industrial motors, from 600 Volts through 25,000 Volts, and with a wide range of options - Patton & Cooke couplers are the proven choice for industrial applications.

600 Volts 145,165, 225, 250, 325 Amp Versions C06/C10 Series Applications		5,000 to 8,000 Volts 250, 400, 500 Amp Versions PK/PL/C80 Series Applications		15,000 Volts 500 Amp Version C150 Series Applications		25,000 Volts 400 Amp Version C250 Series Applications	
	Mining Micro Tunneling Shore to Ship Portable Power Generation		Mining Tunneling Material Handling Shore to Ship Portable Power Generation		Mining Tunneling Shore to Ship Gantry Cranes Portable Power Generation		Mining Tunneling Portable Power Generation



MORE FROM PATTON & COOKE PARTNERS



PASCOR
Switch Gear



PASCOR offers versatility and reliability in its entire line of group operated switches. Ideal for either substation or transmission applications, PASCOR switches are engineered to the highest standards to meet and often exceed all applicable ANSI and NEMA requirements. PASCOR customizes controls on each switch to suit each application.



TRAVIS PDU
Substation Power Connectors



Travis PDU is able to manufacture an almost infinite amount of variations of our products, including a full range of substation connectors. PDU continues to update their production equipment to keep up with new technology and provide the highest quality products available.



TRAVIS UGD
Utility Grounding Division



Ground Clamps, Grounding Components, Utility Tools, and Hot Stick Assemblies. Travis UGD Aluminum and Bronze parts are casted, machined, and assembled right in house. Producing high quality US manufactured parts with shorter lead times.

WE MAKE THE CONNECTION.

PATTON & COOKE CO.

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