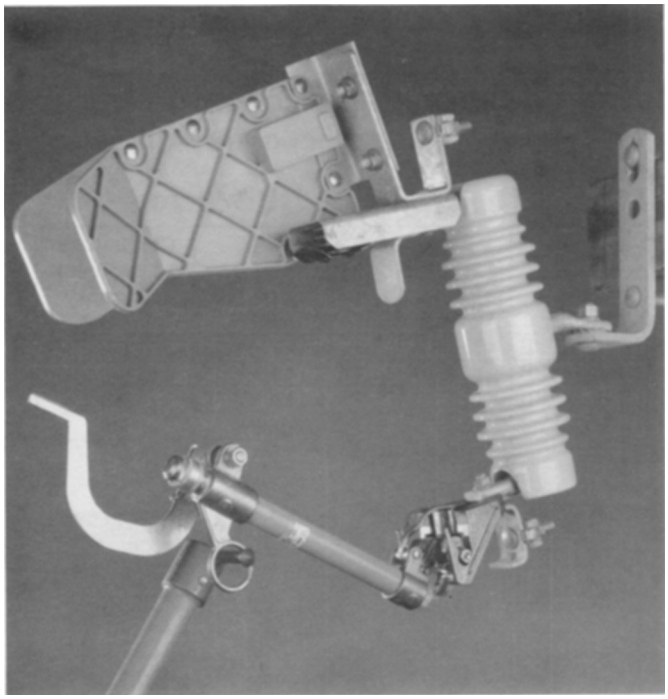
Type C LOADBREAK Cutout

with Arc Chute type interrupter

• 15 kv • 15/27 kV • 20/34.5 kV



Application

The Type C Loadbreak Cutout is available for application on 15, 25 and 35 kV distribution systems. The addition of the arc chute expands the flexibility of the Chance protective devices family by providing loadbreak capability for cutouts and disconnect solid blade units. The loadbreak cutout provides short circuit protection to utility lines with the added feature of a loadbreaking function.

The loadbreak cutout is applicable for transformer and capacitor bank switching or line sectionalizing. Loadbreak cutouts provide protection from overloads that just melt the fuselink through the maximum interrupt capacity of the fuseholder. They also provide loadbreak capability through 300 amperes.

Design

All design features and most components of the loadbreak unit are identical to those incorporated in the Type C standard cutout. The loadbreak portion of the Type C Loadbreak cutout is a heavy duty, reliable load interrupter that provides a positive visible loadbreak. A common loadbreak mounting assembly will accept the Chance Type C 100 amp and 200 amp loadbreak fuseholders or a 300 amp loadbreak disconnect blade. The Type C LOADBREAK fuseholder is not designed to be interchangeable with any other manufacturer's cutout.

Ratings/Specifications

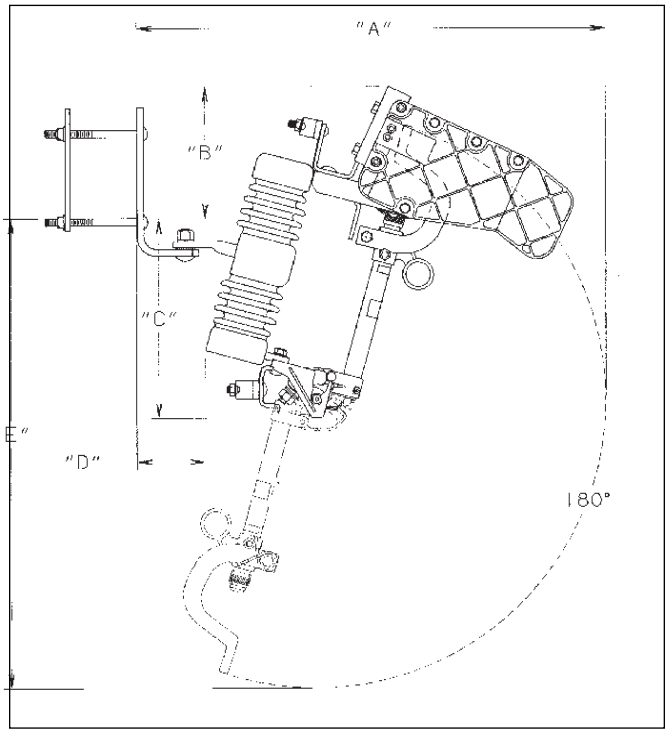
The 15kV Type C loadbreak cutout has a maximum design voltage rating of 15kV. There are no voltage restrictions on applicaton to grounded wye, ungrounded wye, or delta systems having maximum operating voltages (line to line) equal to or less than the cutout maximum design voltage rating.

The 15/27 and 20/34.5 kV Type C loadbreak cutouts have maximum design slant voltage ratings. These cutouts are to be used on systems which have phase-to-ground voltages no greater than the value listed to the left of the slant (/) and which have phase-to-phase voltages no greater than the value listed to the right of the slant.

Fuseholders and mounting assemblies from other manufacturers' loadbreak cutouts are not interchangeable with Chance loadbreak cutouts. Likewise, Chance fuseholders and mountings are not interchangeable with other manufacturers' loadbreak cutouts.

Operation

The self-contained loadbreak device enables the lineman to interrupt load current by means of a simple hookstick operation. To break the current, the lineman inserts a hookstick into the operating ring and rapidly opens the device. Upon opening, a spring-loaded stainless steel blade mechanism snaps out through a gray arc chute and elongates, cools and extinguishes the confined arc. The loadbreaking operation is independent of the operating speed of the lineman. The fuse remains undamaged. No special or portable tools are required to operate the unit. In the open position, the fuseholder or blade hangs in an approximate vertical position for the visible-break.



Dimensions

kV LIW (BIL)	A	B	C	D	E
110	25 1/4" 642 mm	6 7/8" 175 mm	10 3/4" 273 mm	3 1/2" 89 mm	25 5/8" 651 mm
125	28 1/4" 719 mm	8 5/8" 219 mm	12 1/2" 318 mm	3 1/8" 79 mm	30 7/8" 784 mm
150	28 1/4" 719 mm	8 5/8" 219 mm	12 1/2" 318 mm	3 1/8" 79 mm	30 7/8" 784 mm

Type C LOADBREAK Cutout
with Arc Chute Interrruper

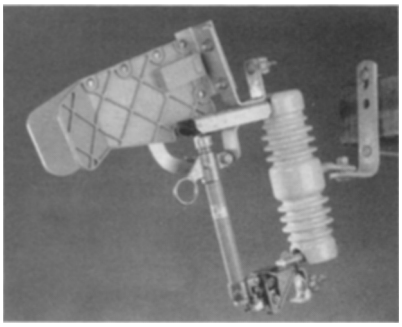
Specifications and Ordering Information

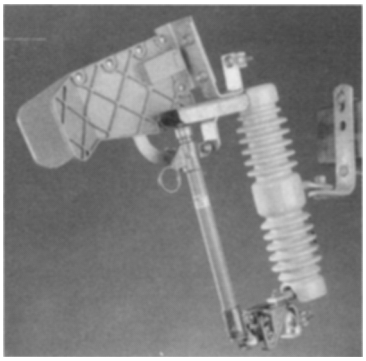
See page 10A-14 for Arrester Cutout Combinations
See page 10A-15 for Accessories.
See page 10A-16 for Complete Catalog Numbering

15 kV - 110 kV LIW (BIL) — RUS Listed

*Base Catalog No.	*Option suffixes below	Maximum Design Voltage	Nominal System Voltage	Continuous & Loadbreak Current (Amps)	Number of Operations	Interrupt Capacity (Asym Amps)	Leakage to Ground Metal to Metal (minimum)		*Weight (lb./kg.)	Replacement Fusetube Cap/ Cap Assembly	Arc Short-ening Rod
C730112	1 2 3	15 kV	Thru 14.4 kV	100	200	10,000	8.7"	220 mm	19.33/8.77	P7001535P	No
C730114	1 2 3	15 kV	Thru 14.4 kV	100	200	16,000	8.7"	220 mm	19.53/8.86	E7001767P	Yes‡
C730143	1 2 3	15 kV	Thru 14.4 kV	200	200	12,000	8.7"	220 mm	20.13/9.13	E7002146P	Yes‡
C730133	1 2 3	15 kV	Thru 14.4 kV	300	50	12,000**	8.7"	220 mm	19.63/8.90	P7001535P	N/A

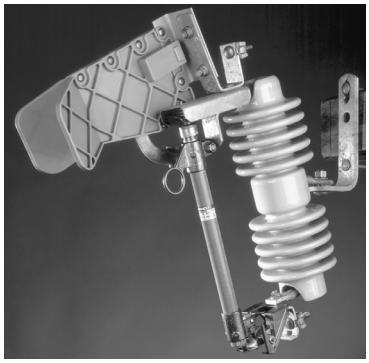
▼15 kV, 110 kV LIW (BIL)





◀15/27 kV, 125 kV LIW (BIL)

20/34.5 kV, 150 kV LIW (BIL) ▶



15/27 kV -125 kV LIW (BIL) — RUS Listed

C730211	1 2 3	15/27 kV	No Restrictions thru 14.4 kV; †20.8 thru 24.9 kV	100	200	8,000	12.6"	320 mm	21.93 / 9.95	P7001535P	No
C730213	1 2 3	15/27 kV		100	200	12,000	12.6"	320 mm	22.13/10.04	E7001768P	Yes
C730242	1 2 3	15/27 kV		200	200	10,000	12.6"	320 mm	22.83/10.36	E7002479P	Yes
C730243	1 2 3	15/27 kV		200	200	12,000	12.6"	320 mm	22.83/10.36	PSE7002706	Yes
C730233	1 2 3	15/27 kV		300	50	12,000*	12.6"	320 mm	22.33/10.13	P7001535P	N/A

20/34.5 kV -150 kV LIW (BIL) — RUS Listed

C730311	1 2 3	20/34.5 kV	No Restrictions thru 14.4 kV; †20.8 thru 34.5 kV	100	100	8,000	17.3"	440 mm	27.73/12.58	P7001535P	No
C730313	1 2 3	20/34.5 kV		100	100	12,000*	17.3"	440 mm	27.93/12.67	E7001768P	Yes

**Momentary rating — Solid blade ‡Must use removable buttonhead fuse links. *Adjust total weight when selecting Options below.
†For application on single-phase to neutral circuits with phase-to-ground voltages not exceeding the value to the left of the slant; and for application on three-phase solidly-grounded-wye systems with solidly-grounded loads with line-to-line voltages not exceeding the value to the right of the slant.

*Option Suffix 1
Terminal Variations

Suffix 1	Description	*Weight (lb./kg.)
P	Parallel-groove clamps	0.33/0.15
E	Small eyebolts	0.16 /0.07
L	Large eyebolts	0.31/0.14
R	Lower PG Clamp Rotated 90°	0.33/0.15

Must specify one selection for Option 1.

*Option Suffix 2
Bracket Variations

Suffix 2	Description	*Weight (lb./kg.)
B	NEMA Heavy Duty "B" bracket for crossarm (1½" bolt)	2.84/1.29
X	Extended type bracket for crossarm (Horizontal section is 2⅝" longer than Type B bracket)	3.75/1.70
D	D-shape bracket (pole)	7.67/3.48
Z	No bracket (must be used with M in Option 3)	—
Blank	No bracket (cannot use with M in Option 3)	—
V	Easy-On bracket (Height: 4⅛" to 5⅝", Width: 2¾" to 4")	2.9/1.32

*Option Suffix 3
Mechanical Assist Fuseholder

Suffix 3	Description
Blank	No option (may not be used with Z in Option 2)
M	Mechanical Assist Fuse-holder (may not be used with Blank in Option 2)
F	Fargo cutout cover (may not be used with Blank in Option 2)
S	Anti- corrosion stainless steel/copper alloy cutout

Type C
LOADBREAK Cutout
Fuseholders and Mounting Assemblies

15 kV - 110 kV LIW (BIL)

Cutout Base Catalog Number	Fuseholder/ Blade Catalog Number	Fuse Holder/ Blade Weight		Mounting Assembly Base Catalog Number	Mounting Assembly Weight	
C730112	T730112T	3.3 lb.	1.5 kg.	T7301MM	18.6 lb.	8.4 kg.
C730114	T730114T	3.5 lb.	1.6 kg.			
C730143	T730143T	4.1 lb.	1.9 kg.			
C730133	T730133T	3.6 lb.	1.6 kg.			

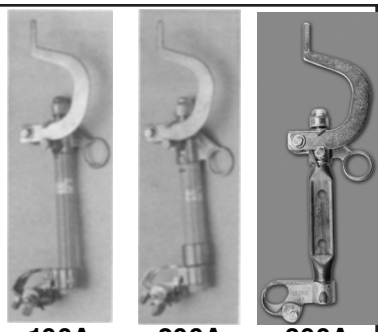
15/27 kV - 125 kV LIW (BIL)

C730211	T730211T	3.6 lb.	1.6 kg	T7302MM	20.8 lb	9.4 kg
C730213	T730213T	3.8 lb.	1.7 kg			
C730242	T730242T	4.4 lb.	2.0 kg			
C730243	T730243T	4.4 lb.	2.0 kg			
C730233	T730342T	4.0 lb.	1.8 kg			

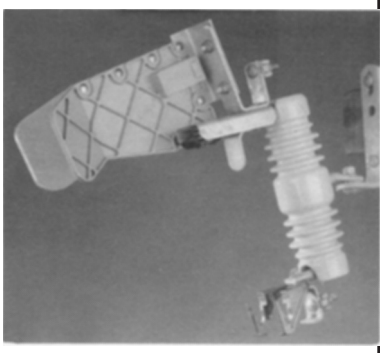
20/34.5 kV - 150 kV LIW (BIL)

C730311	T730311T	3.6 lb.	1.6 kg	T7303MM	26.6 lb	12.1 kg
C730313	T730313T	3.8 lb.	1.7 kg			

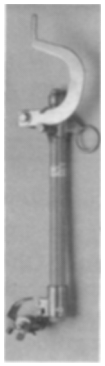
Replacement Arc Chute Interrupter: Catalog No. T7300080 (1.2 lb. / 0.54 kg.)



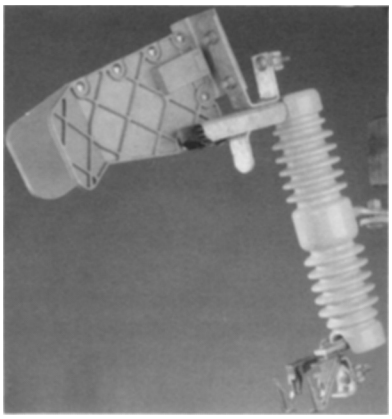
100A 200A 300A



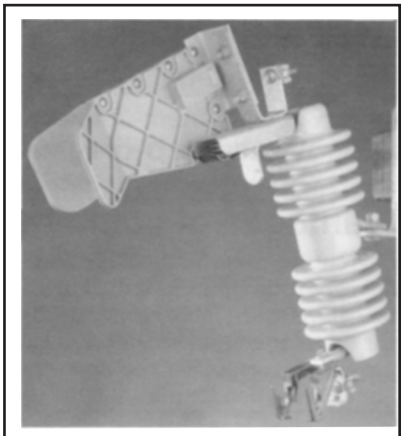
15 kV — T7301MMPB



100A 200A Fuseholders — 300A Blade



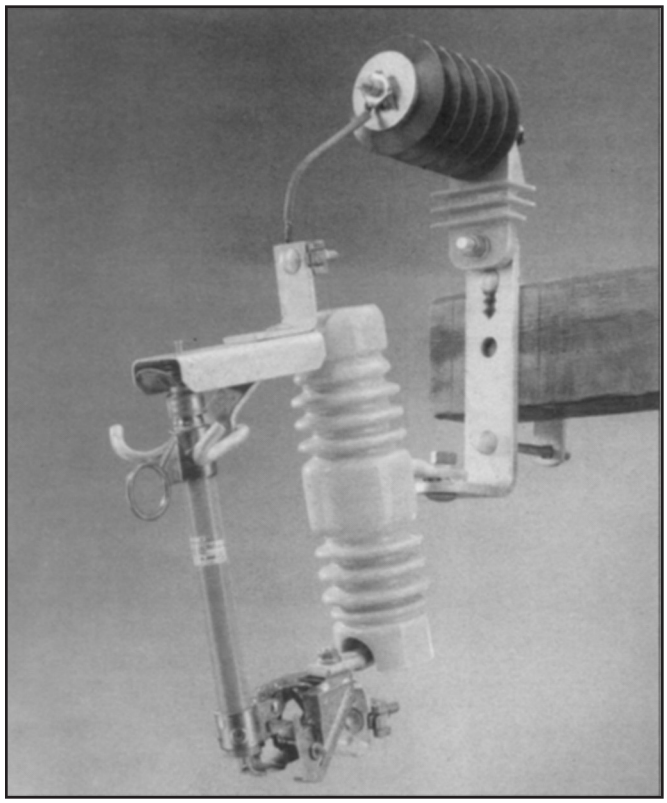
15/27 kV — T7302MMPB



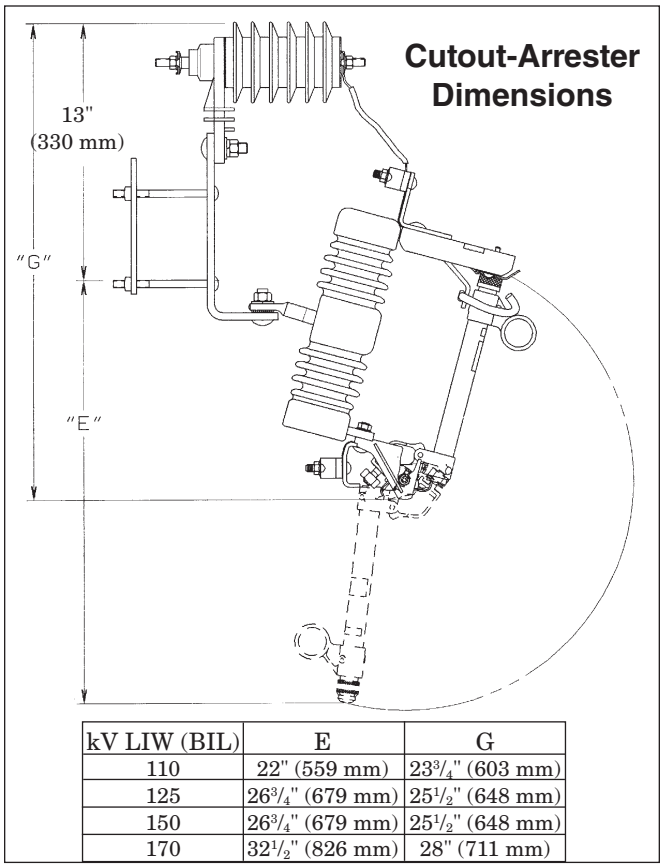
20/34.5 kV — T7303MMPB

Type C Cutout-Arrester Combinations

Over-the-Arm Type only



15 kV cutout with direct-connected Ohio Brass large-block, MOV, polymer 9 kV lightning arrester



kV LIW (BIL)	E	G
110	22" (559 mm)	$23\frac{3}{4}$" (603 mm)
125	$26\frac{3}{4}$" (679 mm)	$25\frac{1}{2}$" (648 mm)
150	$26\frac{3}{4}$" (679 mm)	$25\frac{1}{2}$" (648 mm)
170	$32\frac{1}{2}$" (826 mm)	28" (711 mm)

Advantages of combination

Chance cutout-arrester combinations cost less than the total cost of separately purchased components. The combination units install faster, more economically and take up less space in storage, transit and service. Each combined unit takes up a minimum of space on the crossarm and has a favorable weight distribution for minimal off-center loading. The field-proven quality of both cutout and arrester assure consistent high performance for the combinations.

These units include Chance cutouts fitted with **only** Ohio Brass® MOV arresters, superseding previous silicon-carbide units. For easy conversion to the new arrester designation system, refer to the Cutout Cross-Reference Guide, Bulletin 10-0203.

— Arrester Manufacturer	— MCOV Duty Cycle — kV Rating	— Arrester Connection Method	Metal Oxide Varister (MOV) — Operating Design			
			Polymer — Housing			
			110 — kV LIW (BIL) for Cutout		125 & 150	150
			9 — kV Rating	10	18	27
Ohio Brass	Small Block Normal Duty 5 kA	Direct	DL	DM	DN	DP
	Large Block Heavy Duty 10 kA	Direct	EL	EM	EN	EP
	Riser Pole	Direct	FL	FM	FN	FP

Ordering Information

To specify a Cutout-Arrester Combination:

1. Select a two-letter designation for the appropriate arrester from the shaded section of the Table at left.

2. Substitute the two letters for the "0" in the Base Catalog No. for the appropriate Cutout listed on page 6, 10 or 12.

Accessories

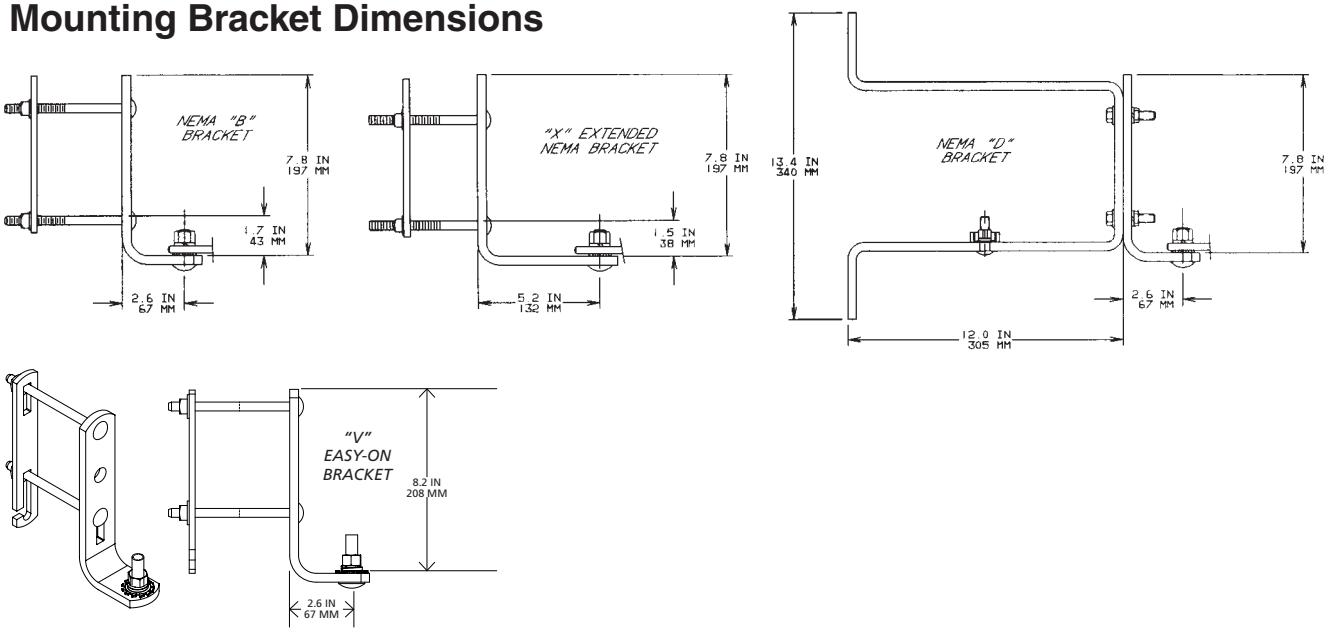
Terminal Connectors

Cat. No.	Description	Wt. (lb./kg.)	Min. Order Qty.
T7001325	Parallel-Groove Clamp, tin-plated bronze for No. 6 sol. thru 4/0 ACSR or 250 kcmil stranded	0.33 / 0.15	10
T7001326	Small Eyebolt for No. 8 solid thru 2/0 stranded	0.16 / 0.07	10
T7001327	Large Eyebolt for No. 6 solid thru 4/0 ACSR or 250 kcmil stranded	0.40 / 0.14	10

Mounting Brackets

C2060283	NEMA Heavy Duty "B" Bracket with $1^{1}/_{2}$" captive bolt for crossarm mounting	2.84 / 1.29	—
C2060280	Extended Crossarm Bracket (Horizontal section is $2^{5}/_{8}$" longer than NEMA "B" bracket)	3.75 / 1.70	—
C2060299	"D" Pole Mounting Bracket	7.67 / 3.48	—
C2060632	Cutout/Arrester Bracket complete with carriage bolts and backstrap	4.00 / 1.81	—
PSC2060887	"V" Easy-On bracket (Height: $4^{1}/_{8}$" to $5^{5}/_{32}$", Width: $2^{3}/_{4}$" to 4")	2.9 / 1.32	—

Mounting Bracket Dimensions



Fargo Cutout Cover

ONE PIECE WILDLIFE PROTECTOR

Available as an Option on Standard and Linkbreak Type C-Porcelain Cutouts (see pages 10A-6 and 10A-10), Cover also may be ordered as a separate line item as **Catalog No. CC101**. **Material:** Proprietary low track vinyl that is UV stabilized for long-term performance. Gray color.

• Designed to provide protection for cutouts from accidental contact by squirrels, birds or other wildlife.

• Universal one-piece design for easy installation or retrofit. Fits Chance 15 kV Standard and Linkbreak Cutouts, both Polymer and Porcelain types.

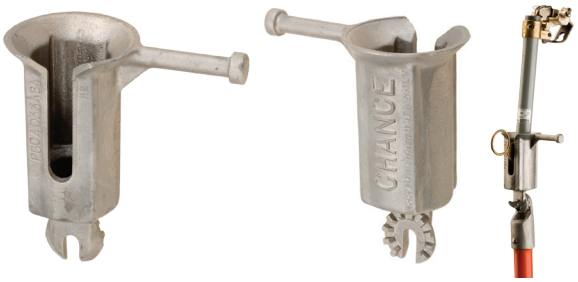
Fastener installation locations (2 fasteners per assembly)

Universal Cutout Tool

Ideal for Standard and Linkbreak 100 amp fuse holders (ABB, Chance, S&C) to easily lift out, place, *open and close. Inverted, secure method also fits Chance Electronic Sectionalizers.

Cat. No. **PSC4033484** (Wt. 4 oz.) See Tools Catalog Section 2100.

When opening a cutout, follow all work rules and OSHA regulations.* ***Not for use with Loadbreak cutouts.*



Type C Cutouts
Catalog Numbering System

Position 6 - Type C Cutout - kV Rating								
No.	Bil kV	Standard			Linkbreak	Loadbreak		
		100A	200A	300A	100A	100A	200A	300A
1	110	15	15	15	15	15	15	15
2	125	27	27	27	15/27	15/27	15/27	15/27
3	150	27	27	27	22/36.4	20/24.5		
6	170	36	36	36	22/36.4			
7	170	36	36	36				

1 represents 220 mm Creep Insulator Assembly
2 represents 320 mm Creep Insulator Assembly
3 represents 440 mm Creep Insulator Assembly
6 represents 660 mm Creep Insulator Assembly
7 represents 720 mm Creep Insulator Assembly

Position 11, 12 ,13

Blank = No option (may not be used with Z in position 10)
M = Mechanical Assist Fuseholder (may not be used with Blank in position 10)*
S = Stainless Option*
F = Add Cutout Cover

*We recommend ordering option M and S together

Position 10 - Bracket Variations

B = NEMA Heavy Duty "B" bracket for crossarm (1-1/2" bolt)
X = Extended type bracket for crossarm (Horizontal section is 2-5/8" longer than type B bracket)
D = D-shape bracket (pole)
V = Easy on bracket
Z = No Bracket (must be used with M in position 11)
Blank = No bracket (cannot use with M in position 11)

Position 3 - Kind

1 = Standard
2 = Linkbreak
3 = Loadbreak

C	7	3	4	5	6	7	8	9	10	11	12	13

Position 4,5

0 **-** No Arrester
For cutout arrester combinations, see below for two letter arrester codes.

Position 7 - Continuous Current

1 = 100 Amps (Accepts 1 - 100 Amp links)
3 = 300 Amps solid blade
4 = 200 Amps (Accepts 140-200 Amp links)
M = Mounting assembly only

Position 8 - Interrupting or Momentary Current (Amps)

1 = 8,000
2 = 10,000
3 = 12,000 (Must use removable buttonhead links)
4 = 16,000 (Must use removable buttonhead links)
M = Mounting assembly only

Position 9 - Terminal Variations (Tin Plated)

P = Parallel-groove clamps
E = Small eyebolts
L = Large eyebolts
R = 90 deg.
T = Fuseholder only (enter T in position 1 and leave blank positions 10 & 11)

Arrester Manufacturer	MCOV Duty Cycle kV Rating	Arrester Connection Method	Metal Oxide Varister (MOV) — Operating Design			
			Polymer — Housing			
			110 — kV LIW (BIL) for Cutout		125 & 150	150
			9 — kV Rating	10	18	27
Ohio Brass	Small Block Normal Duty 5 kA	Direct	DL	DM	DN	DP
	Large Block Heavy Duty 10 kA	Direct	EL	EM	EN	EP
	Riser Pole	Direct	FL	FM	FN	FP