



# DILLON

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## Aluminum Conductor

### A11



11 strands of 14 gauge (1.63mm) secondary bonding aluminum cable.  
45 pounds per thousand feet (67 grams/meter).  
45,107 circular mils (23mm<sup>2</sup>) of conductivity.

### A24



24 strands of 14 gauge (1.63mm) basket weave aluminum cable.  
102 pounds per thousand feet (152 grams/meter).  
98,640 circular mils (50mm<sup>2</sup>) of conductivity.  
Exceeds Class I requirements.

### A28



28 strands of 14 gauge (1.63mm) basket weave aluminum cable.  
115 pounds per thousand feet (172 grams/meter).  
115,047 circular mils (58mm<sup>2</sup>) of conductivity.  
Exceeds Class I requirements.

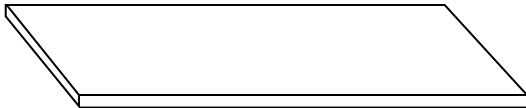
### A37



37 strands of 12-1/2 gauge (1.92mm) concentric wind aluminum cable.  
200 pounds per thousand feet (298 grams/meter).  
211,475 circular mils (107mm<sup>2</sup>) of conductivity.  
Exceeds Class II requirements (4/0).

## Aluminum Strip

### A5/8



Aluminum Strip for secondary bonding.  
5/8" x .064 (15.9mm x 1.63mm).

### A1



Aluminum Strip for primary bonding.  
1" x .064 (25.4mm x 1.63mm).

## **Bare, Tinned and Leaded Copper Conductor**

**C14**



14 strands of 17 gauge (1.15mm) secondary bonding copper cable.  
92 pounds per thousand feet (137 grams/meter).  
28,729 circular mils (14.5mm<sup>2</sup>) of conductivity.

**C14T**

As above with tinned copper strands.

**C29**



29 strands of 17 gauge (1.15mm) basket weave copper cable.  
192 pounds per thousand feet (286 grams/meter).  
59,450 circular mils (30mm<sup>2</sup>) of conductivity.  
Exceeds Class I requirements.

**C29L**

As above with leaded copper strands.

**C29T**

As above with tinned copper strands.

**C32**



32 strands of 17 (1.15mm) gauge basket weave copper cable.  
217 pounds per thousand feet (323 grams/meter).  
65,667 circular mils (33mm<sup>2</sup>) of conductivity.  
Exceeds Class I requirements.

**C32L**

As above with leaded copper strands.

**C32T**

As above with tinned copper strands.

**C36**



36 strands of 17 gauge (1.15mm) basket weave copper cable.  
240 pounds per thousand feet (358 grams/meter).  
73,800 circular mils (37mm<sup>2</sup>) of conductivity.  
Exceeds Class I requirements.

**C230**



28 strands of 16 gauge (1.29mm) rope lay copper cable.  
230 pounds per thousand feet (343 grams/meter).  
72,258 circular mils (36.5mm<sup>2</sup>) of conductivity.  
Exceeds Class I requirements.

**C320**



24 strands of 14 gauge (1.63mm) basket weave copper cable.  
320 pounds per thousand feet (476 grams/meter).  
98,304 circular mils (50mm<sup>2</sup>) of conductivity.  
Exceeds Class I requirements. (1/0)



## Copper and Tinned Conductor

**C385**



28 strands of .066 gauge (1.68mm) rope lay copper cable.  
385 pounds per thousand feet (573 gram/meter).  
121,968 circular mils (61.5mm<sup>2</sup>) of conductivity.  
Exceeds Class II requirements.

**C385T**

As above with tinned copper strands.

**C420**



28 strands of .069 gauge (1.75mm) rope lay copper cable.  
420 pounds per thousand feet (625 grams/meter).  
133,308 circular mils (67mm<sup>2</sup>) of conductivity.  
Exceeds Class II requirements.

**C420T**

As above with tinned copper strands.

**C2/0-19**



19 strands of .0837 gauge (2.13mm) concentric lay copper cable.  
411 pounds per thousand feet (612 grams/meter).  
133,108 circular mils (67mm<sup>2</sup>) of conductivity.  
Exceeds Class II requirements.

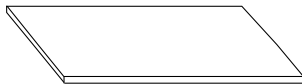
**C4/0-19**



19 strands of .1055 gauge (2.68mm) concentric lay copper cable.  
653 pounds per thousand feet (972 grams/meter).  
211,475 circular mils (107mm<sup>2</sup>) of conductivity.  
Exceeds Class II requirements.

## Copper Strip

**C5/8**



Copper Strip for secondary bonding.  
5/8" x .0508 (15.9mm x 1.29mm).

**C1**

Copper Strip for primary bonding.  
1" x .0508 (25.4mm x 1.29mm).

**C1T**

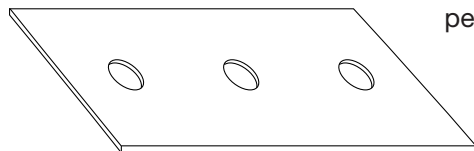
Tinned Copper Strip for primary bonding.  
1" x .0508 (25.4mm x 1.29mm).

**T2**



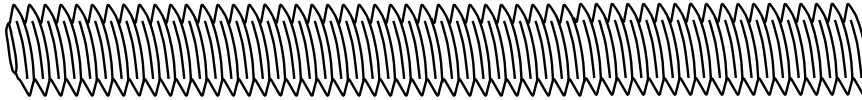
Tinned Copper Strip for primary bonding.  
2" x .064 (50.8mm x 1.63mm).

**T2 Perforated**



Same as T2 punched with 3/8" (9.5mm) diameter round perforations at 1-1/2" (38.1mm) intervals.

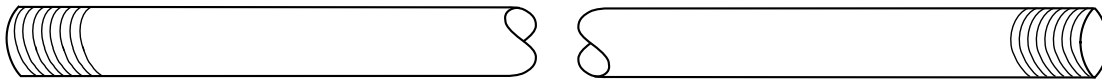
### Threaded Rod - TR



<b>TR1B</b>	3/8 Brass	3/8" - 16 x 6'	(183 cm)
<b>TR2B</b>	1/2 Brass	1/2" - 13 x 6'	(183 cm)
<b>TR2A</b>	1/2 Aluminum	1/2" - 13 x 6'	(183 cm)
<b>TR2S</b>	1/2 Stainless steel	1/2" - 13 x 6'	(183 cm)
<b>TR3A</b>	5/8 Aluminum	5/8" - 11 x 6'	(183 cm)

Threaded rod is available cut to any length that you require.

### Solid Rod Sections



Solid rod sections are available in any length up to 12 feet. Threaded at both ends, these rods can be used to extend air terminals or as main conductor in situations where a rigid conductor is desirable.

#### **COPPER**

<b>CR3/8</b>	3/8" (9.5mm) diameter
<b>CR1/2</b>	1/2" (12.7mm) diameter
<b>CR5/8</b>	5/8" (15.9mm) diameter

#### **ALUMINUM**

<b>AR1/2</b>	1/2" (12.7mm) diameter
<b>AR5/8</b>	5/8" (15.9mm) diameter

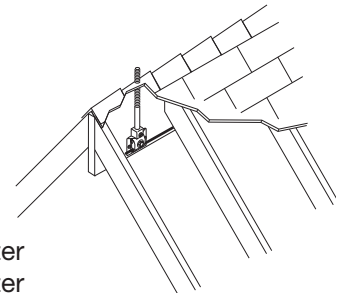
Specify desired length.

Solid rod is also available with just one end threaded.

### Custom Threaded Rods - CTR



Solid rod sections with standard threads on one end and up to 8 inches of threads on the other. For use in a variety of thru-roof applications. Maximum rod length 48".



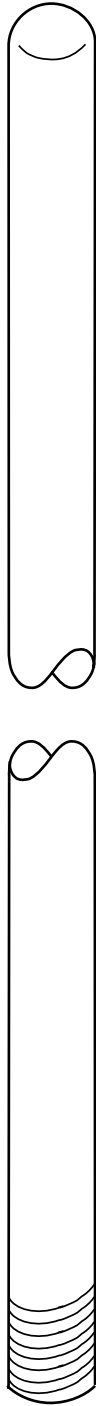
#### **COPPER**

<b>CTRC3/8</b>	3/8" (9.5mm) diameter
<b>CTRC1/2</b>	1/2" (12.7mm) diameter

#### **ALUMINUM**

<b>CTRA1/2</b>	1/2" (12.7mm) diameter
<b>CTRA5/8</b>	5/8" (15.9mm) diameter

Specify desired overall length of rod and inches of thread (in 1/2" increments) required when ordering.

**Blunt Air Terminals – AT****CLASS I****UL LISTED****ALUMINUM****1/2" (12.7mm) diameter, threaded base**

<b>AT10AB</b>	1/2" x 10"	(12.7mm x 254mm)
<b>AT12AB</b>	1/2" x 12"	(12.7mm x 305mm)
<b>AT15AB</b>	1/2" x 15"	(12.7mm x 381mm)
<b>AT18AB</b>	1/2" x 18"	(12.7mm x 458mm)
<b>AT24AB</b>	1/2" x 24"	(12.7mm x 610mm)
<b>AT36AB</b>	1/2" x 36"	(12.7mm x 915mm)
<b>AT48AB</b>	1/2" x 48"	(12.7mm x 1220mm)

**COPPER****3/8" (9.5mm) diameter, threaded base**

<b>AT10CB</b>	3/8" x 10"	(9.5mm x 254mm)
<b>AT12CB</b>	3/8" x 12"	(9.5mm x 305mm)
<b>AT15CB</b>	3/8" x 15"	(9.5mm x 381mm)
<b>AT18CB</b>	3/8" x 18"	(9.5mm x 458mm)
<b>AT24CB</b>	3/8" x 24"	(9.5mm x 610mm)
<b>AT36CB</b>	3/8" x 36"	(9.5mm x 915mm)
<b>AT48CB</b>	3/8" x 48"	(9.5mm x 1220mm)

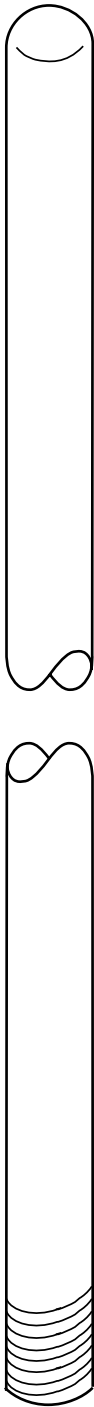
**PLATED COPPER****3/8" (9.5mm) diameter, threaded base**

TINNED	<b>AT12TB</b>	3/8" x 12"	(9.5mm x 305mm)
	<b>AT15TB</b>	3/8" x 15"	(9.5mm x 381mm)
	<b>AT18TB</b>	3/8" x 18"	(9.5mm x 458mm)
	<b>AT24TB</b>	3/8" x 24"	(9.5mm x 610mm)
LEADED	<b>AT36LB</b>	3/8" x 36"	(9.5mm x 915mm)
	<b>AT48LB</b>	3/8" x 48"	(9.5mm x 1220mm)
FULL NICKEL	<b>AT12NB</b>	3/8" x 12"	(9.5mm x 305mm)
	<b>AT15NB</b>	3/8" x 15"	(9.5mm x 381mm)
	<b>AT18NB</b>	3/8" x 18"	(9.5mm x 458mm)
	<b>AT24NB</b>	3/8" x 24"	(9.5mm x 610mm)
	<b>AT36NB</b>	3/8" x 36"	(9.5mm x 915mm)
	<b>AT48NB</b>	3/8" x 48"	(9.5mm x 1220mm)

**CLASS II****UL LISTED****ALUMINUM****5/8" (15.9mm) diameter, threaded base**

<b>AT110AB</b>	5/8" x 10"	(15.9mm x 254mm)
<b>AT112AB</b>	5/8" x 12"	(15.9mm x 305mm)
<b>AT115AB</b>	5/8" x 15"	(15.9mm x 381mm)
<b>AT118AB</b>	5/8" x 18"	(15.9mm x 458mm)
<b>AT124AB</b>	5/8" x 24"	(15.9mm x 610mm)
<b>AT136AB</b>	5/8" x 36"	(15.9mm x 915mm)
<b>AT148AB</b>	5/8" x 48"	(15.9mm x 1220mm)

All air terminals are available in any length to twelve feet (365.75cm).



## **Blunt Air Terminals – AT**

### **CLASS II**

### **UL LISTED**

#### **COPPER**

#### **1/2" (12.7mm) diameter, threaded base**

<b>AT110CB</b>	1/2" x 10"	(12.7mm x 254mm)
<b>AT112CB</b>	1/2" x 12"	(12.7mm x 305mm)
<b>AT115CB</b>	1/2" x 15"	(12.7mm x 381mm)
<b>AT118CB</b>	1/2" x 18"	(12.7mm x 458mm)
<b>AT124CB</b>	1/2" x 24"	(12.7mm x 610mm)
<b>AT136CB</b>	1/2" x 36"	(12.7mm x 915mm)
<b>AT148CB</b>	1/2" x 48"	(12.7mm x 1220mm)

#### **PLATED COPPER**

#### **1/2" (12.7mm) diameter, threaded base**

##### **TINNED**

<b>AT112TB</b>	1/2" x 12"	(12.7mm x 305mm)
<b>AT115TB</b>	1/2" x 15"	(12.7mm x 381mm)
<b>AT118TB</b>	1/2" x 18"	(12.7mm x 458mm)
<b>AT124TB</b>	1/2" x 24"	(12.7mm x 610mm)

##### **LEADED**

<b>AT136LB</b>	1/2" x 36"	(12.7mm x 915mm)
<b>AT148LB</b>	1/2" x 48"	(12.7mm x 1220mm)

##### **FULL NICKEL**

<b>AT112NB</b>	1/2" x 12"	(12.7mm x 305mm)
<b>AT115NB</b>	1/2" x 15"	(12.7mm x 381mm)
<b>AT118NB</b>	1/2" x 18"	(12.7mm x 458mm)
<b>AT124NB</b>	1/2" x 24"	(12.7mm x 610mm)
<b>AT136NB</b>	1/2" x 36"	(12.7mm x 915mm)
<b>AT148NB</b>	1/2" x 48"	(12.7mm x 1220mm)

#### **COPPER**

#### **5/8" (15.9mm) diameter, threaded base**

<b>AT210CB</b>	5/8" x 10"	(15.9mm x 254mm)
<b>AT212CB</b>	5/8" x 12"	(15.9mm x 305mm)
<b>AT215CB</b>	5/8" x 15"	(15.9mm x 381mm)
<b>AT218CB</b>	5/8" x 18"	(15.9mm x 458mm)
<b>AT224CB</b>	5/8" x 24"	(15.9mm x 610mm)
<b>AT236CB</b>	5/8" x 36"	(15.9mm x 915mm)
<b>AT248CB</b>	5/8" x 48"	(15.9mm x 1220mm)

#### **PLATED COPPER**

#### **5/8" (15.9mm) diameter, threaded base**

##### **TINNED**

<b>AT212TB</b>	5/8" x 12"	(15.9mm x 305mm)
<b>AT215TB</b>	5/8" x 15"	(15.9mm x 381mm)
<b>AT218TB</b>	5/8" x 18"	(15.9mm x 458mm)
<b>AT224TB</b>	5/8" x 24"	(15.9mm x 610mm)

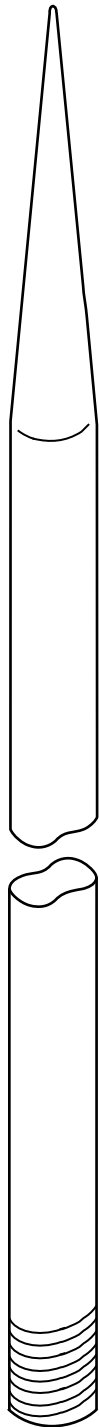
##### **LEADED**

<b>AT236LB</b>	5/8" x 36"	(15.9mm x 915mm)
<b>AT248LB</b>	5/8" x 48"	(15.9mm x 1220mm)

##### **FULL NICKEL**

<b>AT112NB</b>	5/8" x 12"	(15.9mm x 305mm)
<b>AT215NB</b>	5/8" x 15"	(15.9mm x 381mm)
<b>AT218NB</b>	5/8" x 18"	(15.9mm x 458mm)
<b>AT224NB</b>	5/8" x 24"	(15.9mm x 610mm)
<b>AT236NB</b>	5/8" x 36"	(15.9mm x 915mm)
<b>AT248NB</b>	5/8" x 48"	(15.9mm x 1220mm)

All air terminals are available in any length to twelve feet (365.75cm).



## Tapered Air Terminals – AT

### **CLASS I**

### **UL LISTED**

#### **ALUMINUM**

**1/2" (12.7mm) diameter, threaded base  
3-1/2" (88.9mm) taper**

<b>AT10A</b>	1/2" x 10"	(12.7mm x 254mm)
<b>AT12A</b>	1/2" x 12"	(12.7mm x 305mm)
<b>AT15A</b>	1/2" x 15"	(12.7mm x 381mm)
<b>AT18A</b>	1/2" x 18"	(12.7mm x 458mm)
<b>AT24A</b>	1/2" x 24"	(12.7mm x 610mm)
<b>AT36A</b>	1/2" x 36"	(12.7mm x 915mm)
<b>AT48A</b>	1/2" x 48"	(12.7mm x 1220mm)

#### **COPPER**

**3/8" (9.5mm) diameter, threaded base  
2-1/2" (63.5mm) taper**

<b>AT10C</b>	3/8" x 10"	(9.5mm x 254mm)
<b>AT12C</b>	3/8" x 12"	(9.5mm x 305mm)
<b>AT15C</b>	3/8" x 15"	(9.5mm x 381mm)
<b>AT18C</b>	3/8" x 18"	(9.5mm x 458mm)
<b>AT24C</b>	3/8" x 24"	(9.5mm x 610mm)
<b>AT36C</b>	3/8" x 36"	(9.5mm x 915mm)
<b>AT48C</b>	3/8" x 48"	(9.5mm x 1220mm)

#### **PLATED COPPER**

**3/8" (9.5mm) diameter, threaded base  
2-1/2" (63.5mm) taper**

TINNED	<b>AT15T</b>	3/8" x 15"	(9.5mm x 381mm)
	<b>AT18T</b>	3/8" x 18"	(9.5mm x 458mm)
	<b>AT24T</b>	3/8" x 24"	(9.5mm x 610mm)
LEADED	<b>AT36L</b>	3/8" x 36"	(9.5mm x 915mm)
	<b>AT48L</b>	3/8" x 48"	(9.5mm x 1220mm)
FULL NICKEL	<b>AT12N</b>	3/8" x 12"	(9.5mm x 305mm)
	<b>AT15N</b>	3/8" x 15"	(9.5mm x 381mm)
	<b>AT18N</b>	3/8" x 18"	(9.5mm x 458mm)
	<b>AT24N</b>	3/8" x 24"	(9.5mm x 610mm)
	<b>AT36N</b>	3/8" x 36"	(9.5mm x 915mm)
	<b>AT48N</b>	3/8" x 48"	(9.53mm x 1220mm)

### **CLASS II**

### **UL LISTED**

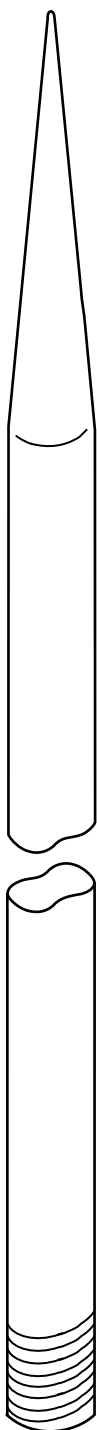
#### **ALUMINUM**

**5/8" (15.9mm) diameter, threaded base  
3-1/2" (88.9mm) taper**

<b>AT110A</b>	5/8" x 10"	(15.9mm x 254mm)
<b>AT112A</b>	5/8" x 12"	(15.9mm x 305mm)
<b>AT115A</b>	5/8" x 15"	(15.9mm x 381mm)
<b>AT118A</b>	5/8" x 18"	(15.9mm x 458mm)
<b>AT124A</b>	5/8" x 24"	(15.9mm x 610mm)
<b>AT136A</b>	5/8" x 36"	(15.9mm x 915mm)
<b>AT148A</b>	5/8" x 48"	(15.9mm x 1220mm)

All air terminals are available in any length to twelve feet (365.75cm).





## Tapered Air Terminals – AT

### **CLASS II**

### **UL LISTED**

#### **COPPER**

**1/2" (12.7mm) diameter, threaded base  
3-1/2" (88.9mm) taper**

<b>AT110C</b>	1/2" x 10"	(12.7mm x 254mm)
<b>AT112C</b>	1/2" x 12"	(12.7mm x 305mm)
<b>AT115C</b>	1/2" x 15"	(12.7mm x 381mm)
<b>AT118C</b>	1/2" x 18"	(12.7mm x 458mm)
<b>AT124C</b>	1/2" x 24"	(12.7mm x 610mm)
<b>AT136C</b>	1/2" x 36"	(12.7mm x 915mm)
<b>AT148C</b>	1/2" x 48"	(12.7mm x 1220mm)

#### **PLATED COPPER**

**1/2" (12.7mm) diameter, threaded base  
3-1/2" (88.9mm) taper**

TINNED	<b>AT112T</b>	1/2" x 12"	(12.7mm x 254mm)
	<b>AT115T</b>	1/2" x 15"	(12.7mm x 305mm)
	<b>AT118T</b>	1/2" x 18"	(12.7mm x 381mm)
	<b>AT124T</b>	1/2" x 24"	(12.7mm x 458mm)
LEADED	<b>AT136L</b>	1/2" x 36"	(12.7mm x 915mm)
	<b>AT148L</b>	1/2" x 48"	(12.7mm x 1220mm)
FULL NICKEL	<b>AT112N</b>	1/2" x 12"	(12.7mm x 305mm)
	<b>AT115N</b>	1/2" x 15"	(12.7mm x 381mm)
	<b>AT118N</b>	1/2" x 18"	(12.7mm x 458mm)
	<b>AT124N</b>	1/2" x 24"	(12.7mm x 610mm)
	<b>AT136N</b>	1/2" x 36"	(12.7mm x 915mm)
	<b>AT148N</b>	1/2" x 48"	(12.7mm x 1220mm)

#### **COPPER**

**5/8" (15.9mm) diameter, threaded base  
3-1/2" (88.9mm) taper**

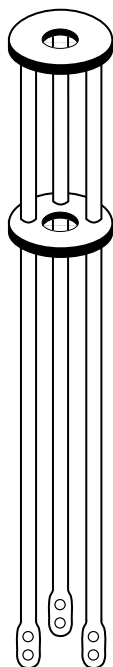
<b>AT210C</b>	5/8" x 10"	(15.9mm x 254mm)
<b>AT212C</b>	5/8" x 12"	(15.9mm x 305mm)
<b>AT215C</b>	5/8" x 15"	(15.9mm x 381mm)
<b>AT218C</b>	5/8" x 18"	(15.9mm x 458mm)
<b>AT224C</b>	5/8" x 24"	(15.9mm x 610mm)
<b>AT236C</b>	5/8" x 36"	(15.9mm x 915mm)
<b>AT248C</b>	5/8" x 48"	(15.9mm x 1220mm)

#### **PLATED COPPER**

**5/8" (15.9mm) diameter, threaded base  
3-1/2" (88.9mm) taper**

TINNED	<b>AT212T</b>	5/8" x 12"	(15.9mm x 305mm)
	<b>AT215T</b>	5/8" x 15"	(15.9mm x 381mm)
	<b>AT218T</b>	5/8" x 18"	(15.9mm x 458mm)
	<b>AT224T</b>	5/8" x 24"	(15.9mm x 610mm)
LEADED	<b>AT236L</b>	5/8" x 36"	(15.9mm x 915mm)
	<b>AT248L</b>	5/8" x 48"	(15.9mm x 1220mm)
FULL NICKEL	<b>AT212N</b>	5/8" x 12"	(15.9mm x 305mm)
	<b>AT215N</b>	5/8" x 15"	(15.9mm x 381mm)
	<b>AT218N</b>	5/8" x 18"	(15.9mm x 458mm)
	<b>AT224N</b>	5/8" x 24"	(15.9mm x 610mm)
	<b>AT236N</b>	5/8" x 36"	(15.9mm x 915mm)
	<b>AT248N</b>	5/8" x 48"	(15.9mm x 1220mm)

All air terminals are available in any length to twelve feet (365.75cm).



### Terminal Braces

#### GALVANIZED BRACE

Galvanized steel tripod braces for use with air terminals up to 5/8" (15.9mm) in diameter.

<b>TB18</b>	18"	(45.7cm)
<b>TB24</b>	24"	(61cm)
<b>TB36</b>	36"	(91.4cm)
<b>TB48</b>	48"	(122cm)

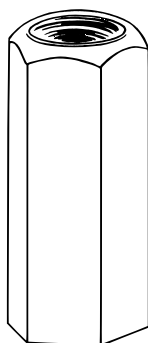
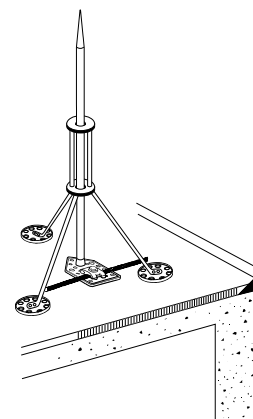
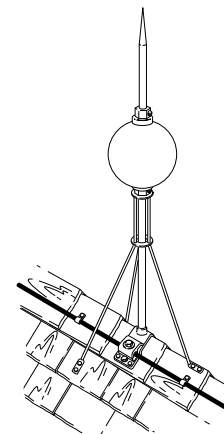
As above with cast aluminum or bronze feet for adhesive applications.

#### BRACE WITH ALUMINUM FEET

<b>TB18A</b>	18"	(45.7cm)
<b>TB24A</b>	24"	(61cm)
<b>TB36A</b>	36"	(91.4cm)
<b>TB48A</b>	48"	(122cm)

#### BRACE WITH BRONZE FEET

<b>TB18B</b>	18"	(45.7cm)
<b>TB24B</b>	24"	(61cm)
<b>TB36B</b>	36"	(91.4cm)
<b>TB48B</b>	48"	(122cm)



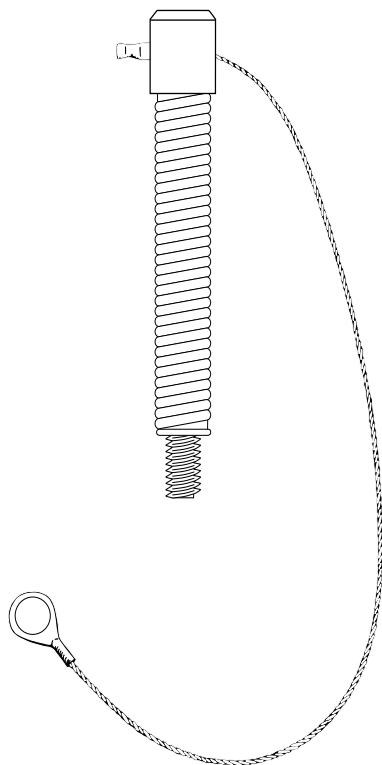
### Rod Coupling - RC

For threaded rod to threaded rod or air terminal connection. Fabricated from 3/4" (19mm) aluminum or brass hex stock. Available with 3/8" (9.5mm), 1/2" (12.7mm) or 5/8" (15.9mm) internal threads, in combinations to meet your requirements. Approximately 1-1/4" x 3/4" (32mm x 19mm).

BRASS	ALUMINUM
<b>RC3/8B</b>	<b>RC1/2A</b>
<b>RC1/2B</b>	<b>RC5/8A</b>
<b>RC1/2-3/8B</b>	<b>RC1/2-5/8A</b>
<b>RC5/8B</b>	<b>RC5/8G-1/2A</b>
<b>RC5/8-1/2B</b>	<b>RC5/8G-5/8A</b>
<b>RC5/8G-3/8B</b>	

Rod Couplings are also available in tinned brass and stainless steel. Call factory with your specific needs.

## Spring Adapter - SA



Use Spring Adapters when safety requirements preclude the use of rigid air terminals. Stainless steel spring is 3.5" (89mm) long. Ends are fabricated from 3/4" (19mm) round aluminum or brass rod stock. Top end is threaded female and has a 12" (30.5cm) stainless steel safety cable. Bottom end is threaded male.

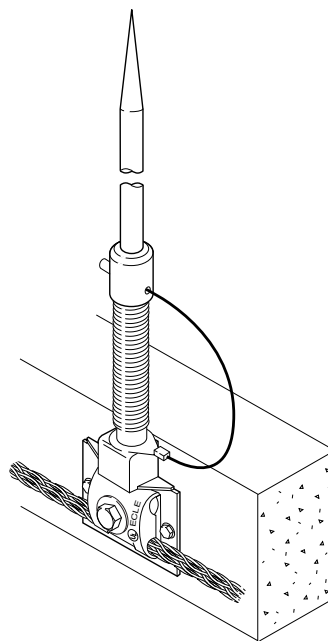
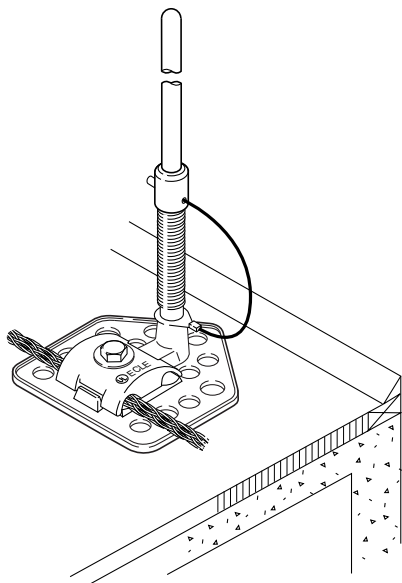
### ALUMINUM

<b>SA1/2-1/2A</b>	1/2" female to 1/2" male
<b>SA1/2-5/8A</b>	1/2" female to 5/8" male
<b>SA5/8-1/2A</b>	5/8" female to 1/2" male
<b>SA5/8-5/8A</b>	5/8" female to 5/8" male

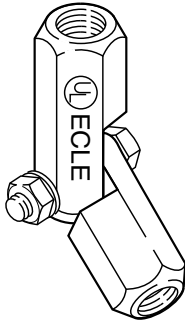
### BRONZE

<b>SA3/8-3/8B</b>	3/8" female to 3/8" male
<b>SA3/8-1/2B</b>	3/8" female to 1/2" male
<b>SA1/2-3/8B</b>	1/2" female to 3/8" male
<b>SA1/2-1/2B</b>	1/2" female to 1/2" male

When ordering air terminals for use with spring adapters, keep in mind that air terminal length should not exceed 18 (45.7cm) inches. Spring adapters are not recommended for use with 5/8" diameter copper air terminals.



## Cast Swivel Couplings - SC



For male to female or female to female connections.  
Cast bronze or aluminum with stainless steel fasteners.  
Available with 3/8" (9.5mm), 1/2" (12.7mm) or 5/8" (15.9mm) threads, in combinations to meet your requirements.  
Female to female 3" x 3/4" (76mm x 19mm).  
Female to male 4" x 3/4" (102mm x 19mm).

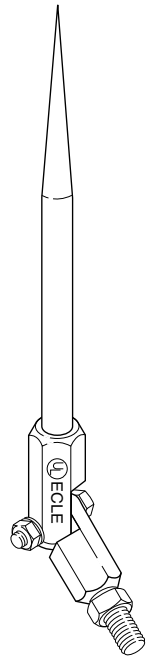
### BRASS

SC3/8F-3/8FB  
SC3/8F-3/8MB  
SC3/8F-1/2FB  
SC3/8F-1/2MB  
SC1/2F-3/8MB  
SC1/2F-1/2FB  
SC1/2F-1/2MB

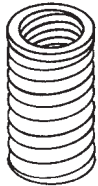
SC1/2F-5/8FB  
SC1/2F-5/8MB  
SC5/8F-1/2MB  
SC5/8F-5/8FB  
SC5/8F-5/8MB

### ALUMINUM

SC1/2F-1/2FA  
SC1/2F-1/2MA  
SC1/2F-5/8FA  
SC1/2F-5/8MA  
SC5/8F-1/2MA  
SC5/8F-5/8FA  
SC5/8F-5/8MA

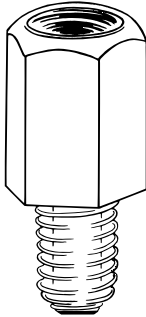


**NOTE:** Cast Swivel Couplings are also available tinned.



## Air Terminal Bushing

**AD1B** Brass thread size reducer bushing.  
Converts 1/2" to 3/8". Approximately  
1/2" (1.127cm) diameter x 3/4" (1.9cm).  
Approximately .31 oz.



## Air Terminal Adapter

**AD2A** Aluminum 1/2" male to 5/8" female adapter for  
base to air terminal or threaded rod connections.  
1-3/4" x 3/4" (45mm x 19mm).  
Approximately 1.4 oz. (40 grams).

**AD2B** As above in brass.  
1-3/4" x 3/4" (45mm x 19mm).  
Approximately 4.2 oz. (119 grams).

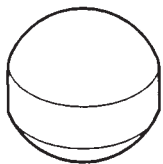


## Air Terminal Coupling

**ATC3/8B** Slender, cylindrical brass coupling for connecting  
3/8" air terminal to 3/8" threaded rod or solid rod  
section. 1-1/2" x 1/2" (38.1mm x 12.7mm).

**ATC1/2B** As above for 1/2" air terminal to 1/2" threaded rod.  
1-1/2" x 5/8" (38.1mm x 15.8mm).

## Air Terminal Safety Tips

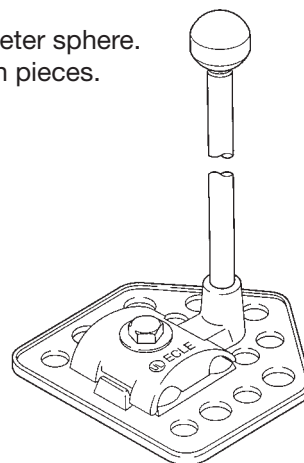


### **Brass Ball**

Brass air terminal safety tip. 1 inch (25.4mm) diameter sphere. Internally threaded for attachment to rod extension pieces. Approximately 4 oz. (113 grams). Specify 3/8, 1/2, or 5/8 thread size.

### **Aluminum Ball**

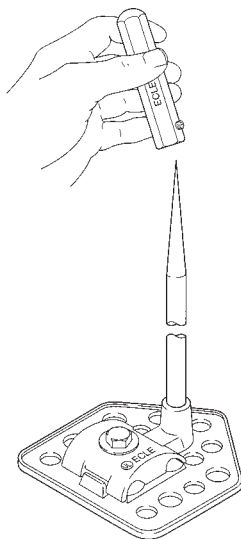
Approximately 1.6 oz. (45 grams). Specify 1/2 or 5/8 thread size.



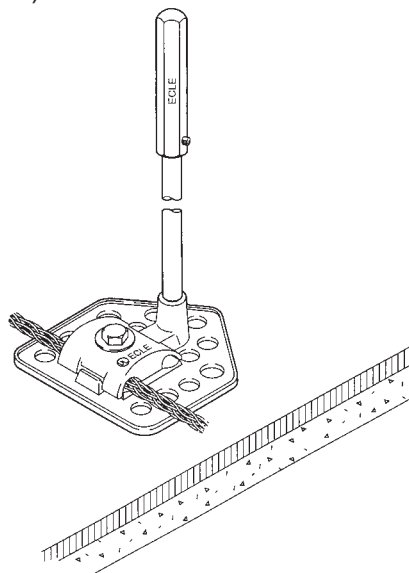
### **Brass Bullet**

Hex brass air terminal safety tip. Slips over existing air terminal tip and is held in place with a stainless steel set screw 4" x 3/4" (101.6mm x 19.05mm). Approximately 10.7 oz. (303 grams).

**Aluminum Bullet** Approximately 4.3 oz. (122 grams).



**NOTE:** Disk type air terminal tops are also available.





## **Decorative Finials - DF**

**DF1B 27" Bronze Decorative Finial**  
Cast bronze finial with internally threaded base for 1/2" (12.7mm) threaded rod. 27" (68.6cm) tall, largest section 4-1/2" (11.4cm) diameter.  
Supplied with 2' (60.9cm) of 1/2" stainless steel threaded rod, 1/2" nut and 1/2" washer.  
Approximately 19.77 pounds (8.94kg).

**DF1A Aluminum**  
Approximately 9 pounds (4.1kg).

**DF48B 48" Bronze Decorative Finial**  
Cast bronze finial with 1" (25.4mm) diameter mounting rod. Each finial is individually numbered and recorded as a factory original.  
48" (1.22m) tall, 9" (22.9cm) diameter at largest section.  
Approximately 55 pounds (24.9kg).  
Specify mounting rod length required when ordering.

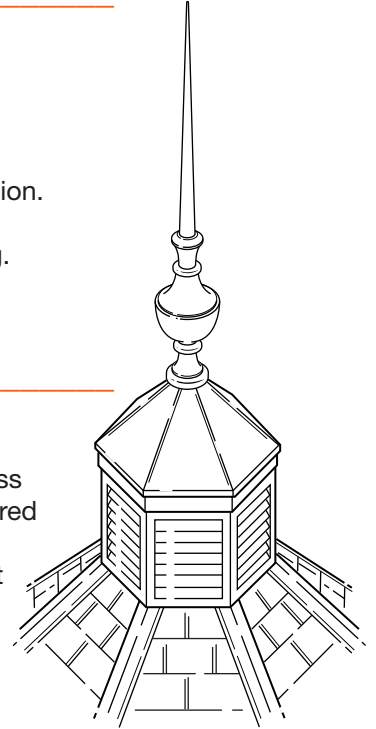
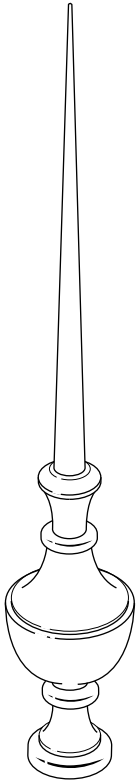
**DF48A Aluminum**  
Approximately 19 pounds (8.6kg).

**DF72B 72" Bronze Decorative Finial**  
Cast bronze finial with 1" (25.4mm) diameter stainless steel mounting rod. Each finial is individually numbered and recorded as a factory original.  
72" (1.8m) tall, 13 1/2" (34.35cm) diameter at largest section.  
Approximately 175 pounds (79.5kg).

**DF72A Aluminum**  
Approximately 70 pounds (31.8kg).

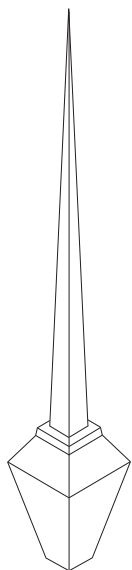
**DF96B 96" Bronze Decorative Finial**  
Cast bronze finial with 1" (25.4mm) diameter stainless steel mounting rod. Each finial is individually numbered and recorded as a factory original.  
96" (2.44m) tall, 18" (45.8cm) diameter at largest section.  
Approximately 275 pounds (125kg).

**DF96A Aluminum**  
Approximately 110 pounds (50kg).



**NOTE:** Bronze decorative finials and terminals are also available tin plated.

### Decorative Finials - DF



**DF2B**

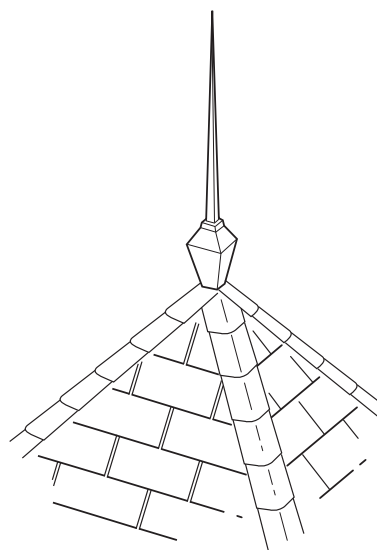
**30" Bronze Decorative Finial**

Cast bronze decorative finial. Overall height 30 inches (76.2cm) 4-1/2" (11.4cm) at widest section. 1/2" diameter stainless steel threaded mounting rod extends from bottom. Supplied with stainless steel nut and washer. Approximately 12 lbs (5.4kg).

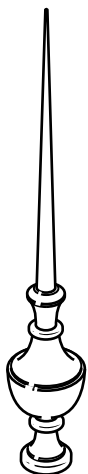
**DF2A**

**Aluminum**

Approximately 4 pounds (1.8kg).



### Decorative Terminal - DT



**DT16B**

Cast bronze decorative finial with 3/8" (9.5mm) threaded stub. 16" (40.6cm) tall, largest section diameter 2-1/4" (57.2mm). Approximately 3 pounds (1.36kg).

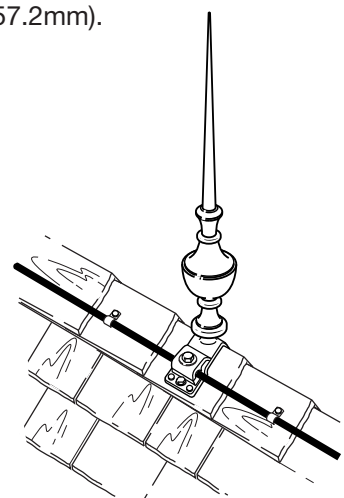
**DT116B**

Cast bronze decorative finial. Same as DT16B but with 1/2" (12.7mm) threaded stub.

**DT16A**

Cast Aluminum. 1/2" (12.7mm) threaded stub. Approximately 1 pound (.45kg).

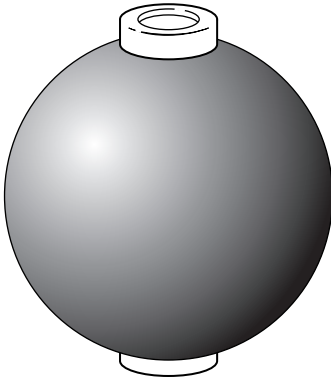
Bronze also available with 1/2" or 3/8" internal threads.



**NOTE:** Bronze decorative finials and terminals are also available tin plated.

## Decorative Glass Balls

4-1/2 inch diameter decorative glass balls. Glass balls are reproduction antiques made using original molds. Ball surfaces are smooth and are imprinted with the year of manufacture. (No logos or other markings). Balls are fitted with 5/8" diameter copper end caps. Aluminum end caps also available. Mount on rod using ball bushings.

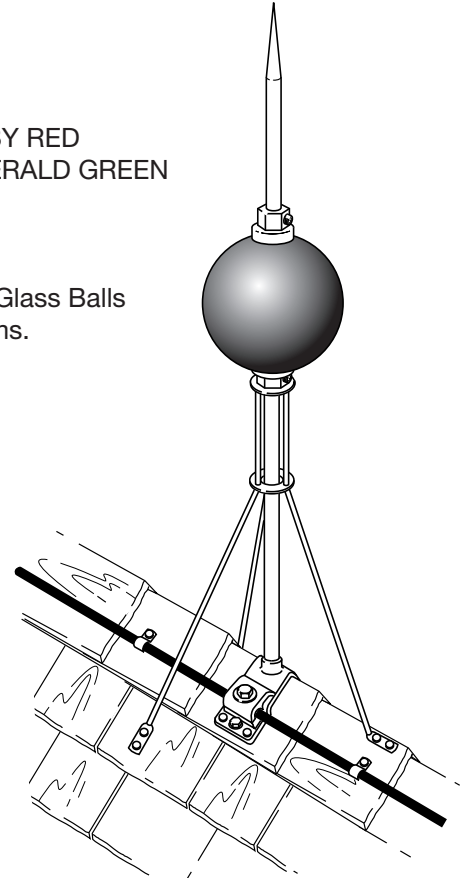
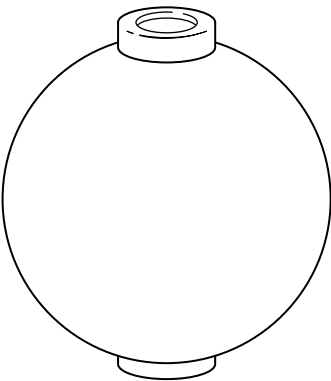


Available colors:

MILK WHITE  
COBALT BLUE

RUBY RED  
EMERALD GREEN

Other colors and sizes of the Decorative Glass Balls are available as special order items.



## Glass Ball Bushings

### **Brass Bushing**

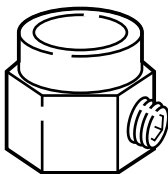
Brass hex shoulder bushing for mounting glass balls.

Stainless steel set screw.

Specify rod diameter when ordering.

3/4" x 3/4" (19.05mm x 19.05mm).

Approximately 1.8 oz (51 grams).



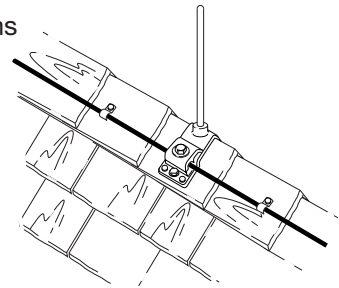
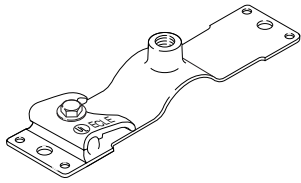
### **Aluminum Bushing**

Approximately .6 oz. (17 grams).

## Bolt Bases - BB

### BB1B Ridge Saddle

A cast bronze malleable base which easily forms to ridges and other contoured surfaces. Has a 1-way bolt pressure cable holder. 5/16-18 stainless steel bolt and washer. 8" x 2" (20.3cm x 5.1cm); approximately 12 oz. (340 grams). Use suffix 3/8, 1/2 or 5/8 to denote air thread size.

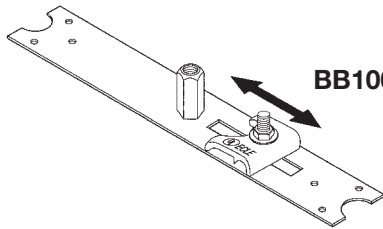


### BB1A Aluminum

Approximately 4 oz. (113 grams). Use suffix 1/2 or 5/8 to denote air terminal thread size.

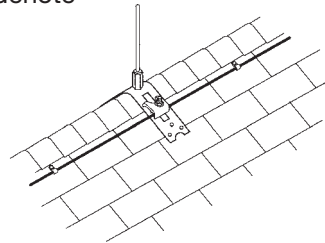
### BB100B Strap Type Ridge Saddle

12" copper strap with hex stock boss for air terminal attachment and adjustable one-way cast bronze cable holder. 12" x 2" (30.5cm x 5.1cm); approximately 1 lb. 1 oz. (482 grams). Use suffix 3/8, 1/2 or 5/8 to denote air terminal thread size.



### BB100A Aluminum

Approximately 9.3 oz. (264 grams). Use suffix 1/2 or 5/8 to denote air terminal thread size.

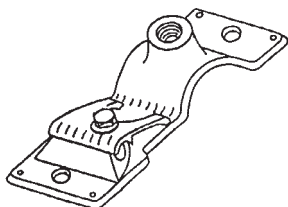


### Odd Sized Ridge Cap? No Problem

**BB100X** Strap type saddle manufactured in the custom length you specify. Call with ridge dimensions for pricing. Also useful for skylights, atriums, under tiles, etc., where a longer strap is desirable.

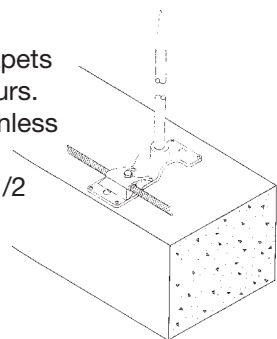
### BB2B Malleable Top Mount

A cast bronze malleable base for use on sloped parapets and other pitched surfaces. Can be formed to contours. Has a 1-way bolt pressure cable holder. 5/16-18 stainless steel bolt and washer. 5-1/4" x 2" (13.3cm x 5.1cm); approximately 13 oz. (369 grams). Use suffix 3/8 or 1/2 or 5/8 to denote air terminal thread size.



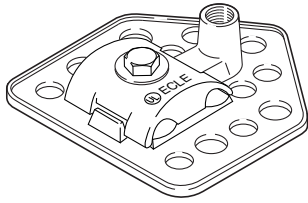
### BB2A Aluminum

Approximately 5 oz. (142 grams). Use suffix 1/2 or 5/8 to denote air terminal thread size.



**NOTE:** Copper and bronze fittings are also available tinned.

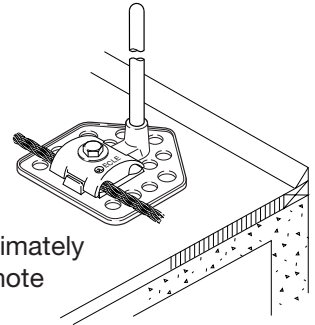
## Bolt Bases - BB



**BB3B**

### Adhesive Base

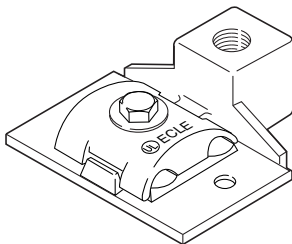
A cast bronze base with 2-way bolt pressure cable holder. Cap can be rotated 90 degrees. Suitable for use on built-up, single membrane, or other roof surfaces where mechanical penetrations must be avoided. For use with adhesives compatible to roof surface. 5/16-18 stainless steel bolt and washer. 4-1/4" x 4" (10.8cm x 10.2cm); approximately 16 oz. (454 grams). Use suffix 3/8, 1/2 or 5/8 to denote air terminal thread size.



**BB3A**

### Aluminum

Approximately 6 oz. (170 grams). Use suffix 1/2 or 5/8 to denote air terminal thread size.



**BB4B**

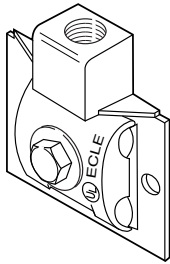
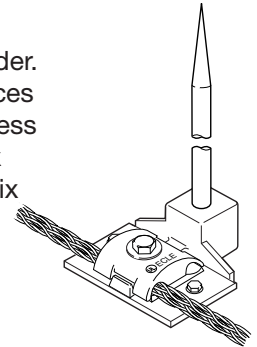
### Top Mount

A cast bronze base with 2-way bolt pressure cable holder. Is suitable for parapets, flat machinery and other surfaces where mechanical mounting is possible. 5/16-18 stainless steel bolt and washer. 2-13/16" x 2-15/16" (71.44mm x 74.61mm); approximately 9.3 oz. (263 grams). Use suffix 3/8, 1/2 or 5/8 to denote air terminal thread size.

**BB4A**

### Aluminum

Approximately 4 oz. (113 grams). Use suffix 1/2 or 5/8 to denote air terminal size.



**BB6B**

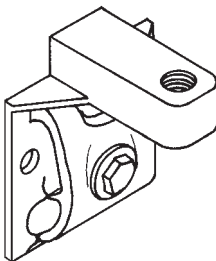
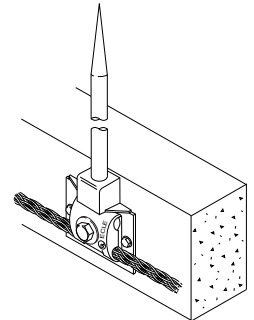
### Side Mount

A cast bronze base with a 2-way bolt pressure cable holder. 5/16-18 stainless steel bolt and washer. 2-13/16" x 2-15/16" (71.44mm x 74.61mm). Approximately 9.3 oz. (263 grams). Use suffix 3/8, 1/2 or 5/8 to denote air terminal thread size.

**BB6A**

### Aluminum

Approximately 4 oz. (133 grams). Use suffix 1/2 or 5/8 to denote air terminal thread size.



**BB7B**

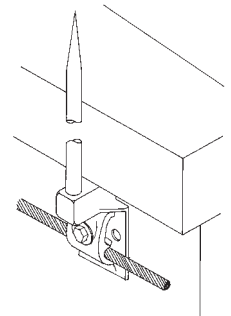
### Off-Set Side Mount

A cast bronze base with a 1-way bolt pressure cable holder. 1-1/2" offset. 5/16-18 stainless steel bolt and washer. 2-3/8" x 2-3/4" x 2" (6cm x 7cm x 5.1cm); approximately 13 oz. (369 grams). Use suffix 3/8, 1/2 or 5/8 to denote air terminal thread size.

**BB7A**

### Aluminum

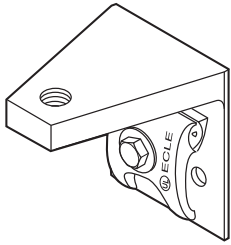
Approximately 5 oz. (142 grams). Use suffix 1/2 or 5/8 to denote air terminal thread size.



**NOTE:** Copper & bronze fittings are also available tinned.

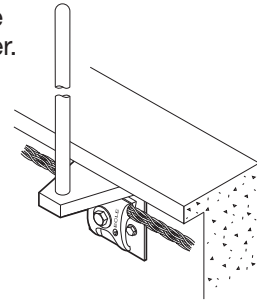


## Bolt Bases - BB



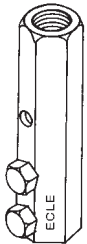
- BB700B 2-1/2" Off-Set Side Mount**  
 Cast bronze base with a 1-way bolt pressure cable holder. 2-1/2" offset. 5/16-18 stainless steel washer. 2-3/8" x 3" x 3-1/8" (6cm x 7.6cm x 7.9cm). Approximately 1 lb 7.2 oz. (658 grams).

Use suffix 3/8, 1/2 or 5/8 to denote air terminal thread size.



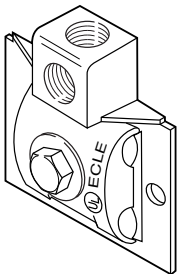
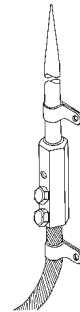
- BB700A Aluminum**  
 Approximately 9.22 oz. (233 grams).

Use suffix 1/2 and 5/8 to denote air terminal thread size.



- BB8B Cable To Threaded Rod**  
 Hex brass 2-bolt splicer for cable to threaded rod or air terminal. 5/16-18 stainless steel bolt. 2-7/8" x 3/4" hex (7.3cm x 2.15cm); approximately 5 oz. (142 grams). Use suffix 3/8, 1/2 or 5/8 to denote air terminal thread size.

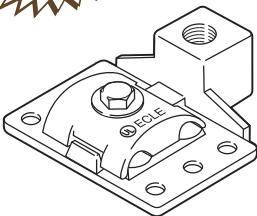
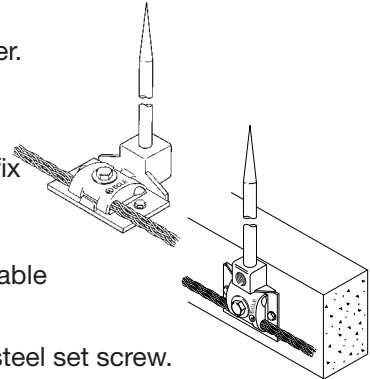
- BB8A Aluminum**  
 Approximately 2 oz. (57 grams). 1/2" or 5/8" thread size. Also available with socket head set screws.



- BB9B Dual Thread**  
 A cast bronze base with a 2-way cable holder. Threaded for top or side mounting. 5/16-18 stainless steel bolt and washer. 2-13/16" x 2-15/16" (71.44mm x 74.61mm). Approximately 9.3 oz. (263 grams). Use suffix 3/8 or 1/2 to denote air terminal thread size.

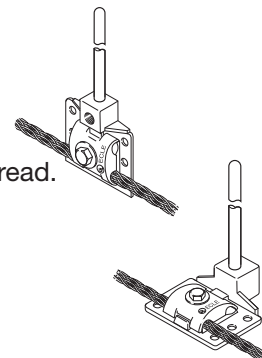
- BB9A Aluminum**  
 Approximately 4 oz. (113 grams). Only available with 1/2" thread size.

Use suffix "S" to request optional stainless steel set screw.



- BB900B Extended Dual Thread**  
 Cast bronze base with 2-way cable holder. Threaded for top or side mounting. Features a wide mounting surface for a variety of mounting applications. 15/16-18 stainless steel bolt and washer. Use suffix 3/8 or 1/2 to denote air terminal thread. 3-1/8" x 3-5/8" (79.4mm x 92mm). Approximately 13.6 oz. (386 grams).

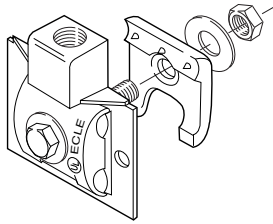
- BB900A Aluminum**  
 Approximately 4.8 oz. (136 grams). Only available with 1/2" or 5/8" thread size.



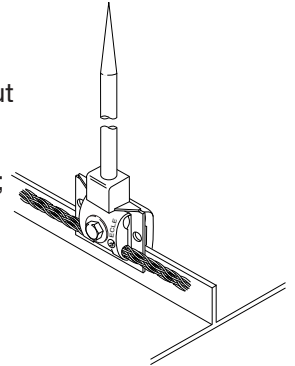
**NOTE:** Copper & bronze fittings are also available tinned.

## Bolt Bases - BB

### BB10B Standing Seam Base



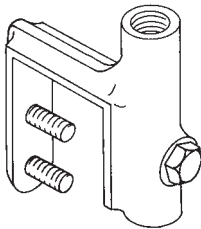
A cast bronze base with two way bolt pressure cable connector. One-way bolt pressure clamp on backside joins the unit to a standing seam without penetration. Creates a strong and rigid base for parallel runs of cable. Stainless steel bolt, nut and washer. 2-13/16" x 2-15/16" (71.44mm x 76.61mm); approximately 9.3 oz. (263 grams). Use suffix 3/8, 1/2 or 5/8 to denote air terminal thread size.



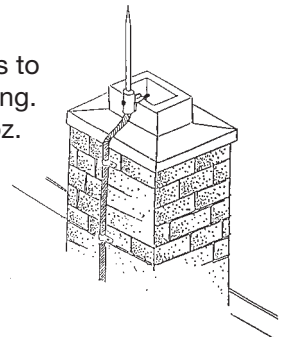
### BB10A Aluminum

Approximately 5 oz. (142 grams). Use suffix 1/2 or 5/8 to denote air terminal thread size.

### BB11T Flue Tile



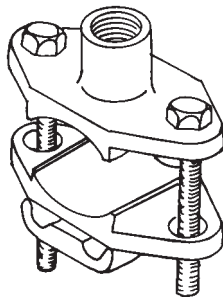
Tinned cast bronze base for mounting air terminals to flue tiles. Has two stainless steel bolts for anchoring. 2-1/2" x 2-3/4" (6.4cm x 7cm); approximately 11 oz. (312 grams). Use suffix 3/8 or 1/2 to denote air terminal thread size.



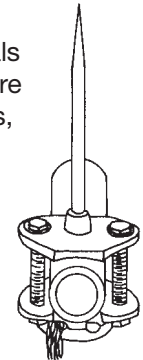
### BB11A Aluminum

Approximately 4 oz. (113 grams). Use with 1/2" diameter air terminal.

### BB12B Horizontal Pipe Mount



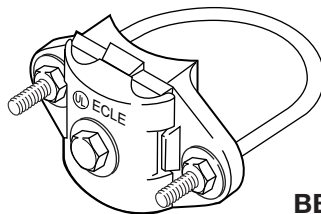
A cast bronze base for horizontal mounting of air terminals on pipes up to 2" (5.1cm) in diameter. 2-way bolt pressure cable holder fits cables through 4/0. Stainless steel bolts, nuts and washers. 3-1/2" x 2" (8.9cm x 5.1cm); approximately 12 oz. (340 grams). Use suffix 3/8, 1/2 or 5/8 to denote air terminal thread size.



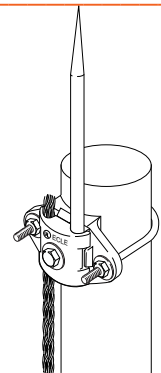
### BB12A Aluminum

Approximately 4 oz. (113 grams). Use suffix 1/2 or 5/8 to denote air terminal thread size.

### BB13B Vertical Pipe Mount



A cast bronze base for vertical mounting of air terminals on pipes up to 2" (5.1cm) in diameter. 2-way bolt pressure cable holder fits cables through 4/0. Can be used with or without cable. Stainless steel U-bolt, nuts and washers. 3-1/2" x 2" (8.9cm x 5.1cm); approximately 12 oz. (340 grams).

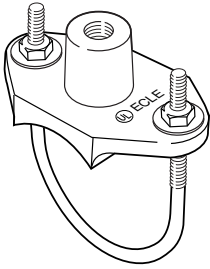


### BB13A Aluminum

Approximately 4 oz. (113 grams).

**NOTE:** Copper & bronze fittings are also available tinned.

## Bolt Bases - BB

**BB14B**

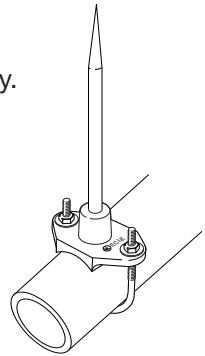
### Horizontal Air Terminal Mount

A cast bronze base for horizontal air terminal mounting only. Fits pipes up to 2" (5.1cm) in diameter. Stainless steel U-bolt, nuts and washers. 3-1/2" x 2" (8.9cm x 5.1cm); approximately 11 oz. (312 grams). Use suffix 3/8, 1/2 or 5/8 to denote air terminal thread size.

**BB14A**

### Aluminum

Approximately 3.5 oz. (99 grams). Use suffix 1/2 or 5/8 to denote air terminal thread size.

**BB16B**

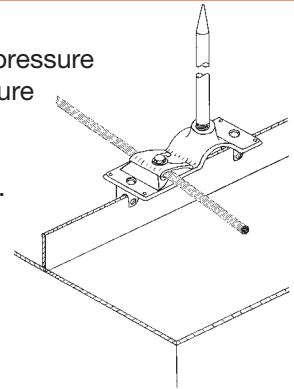
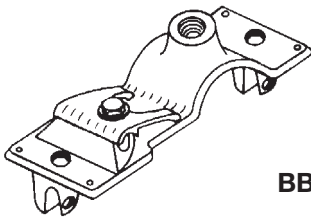
### Across Standing Seam

A malleable cast bronze base with a 1-way bolt pressure cable holder and two non-penetrating bolt pressure fasteners. For use when cable is run across standing roof seam. Stainless steel bolts. 5-1/2" x 2" (14cm x 5.1cm); approximately 20 oz. (567 grams). Use suffix 3/8, 1/2 or 5/8 to denote air terminal thread size.

**BB16A**

### Aluminum

Approximately 7 oz. (198 grams). Use suffix 1/2 or 5/8 to denote air terminal thread size.

**BB19B**

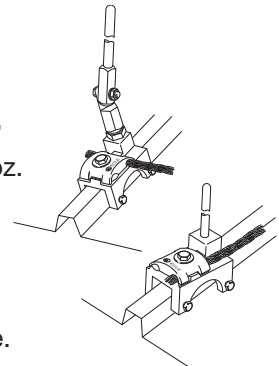
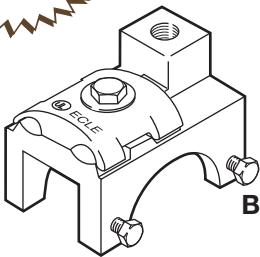
### Standing Seam Base

Cast bronze base with 2-way bolt pressure cable holder. Cap can be rotated for use with horizontal or vertical conductor runs. Can be used with or without swivel point adapter. Stainless steel bolts. 2. 7" x 1.7" x 1.8" (6.8cm x 4.3cm x 4.5cm). Approximately 17.1 oz. (484 grams). Use suffix 3/8, 1/2 or 5/8 to denote air terminal thread size.

**BB20A**

### Aluminum

Approximately 5.7 oz. (161 grams). Use suffix 1/2 or 5/8 to denote air terminal thread size.

**BB20B**

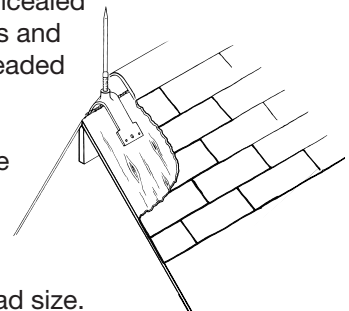
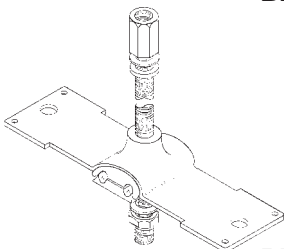
### Concealed Ridge Saddle

A cast bronze malleable base which can be concealed under the ridge cap. Base easily forms to ridges and other contoured surfaces. Comes with 1/2" threaded rod, lock-nut and air terminal coupling. 8" x 2" (20.3cm x 5.1cm); approximately 19.5 oz. (553 grams). Use suffix 3/8, 1/2 or 5/8 to denote air terminal thread size.

**BB20A**

### Aluminum

Approximately 9.6 oz. (272 grams). Use suffix 1/2 or 5/8 to denote air terminal thread size.



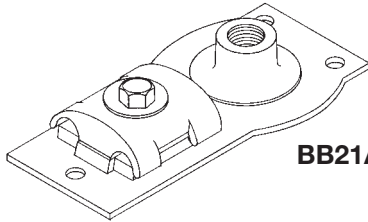
**NOTE:** Copper & bronze fittings are also available tinned.

## Bolt Bases - BB

**BB21B**

### Two-Way Top Mount Base

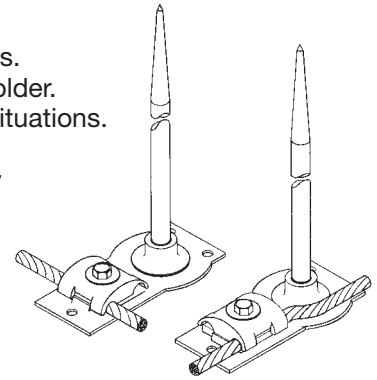
Cast bronze base for mounting to flat surfaces. Comes with a two-way bolt pressure cable holder. Versatile, narrow design works well in many situations. 5/16-18 stainless steel bolt and washer. 5" x 2-1/2" (12.7cm x 6.35cm); approximately 14.5 oz. (413 grams). Use suffix 3/8, 1/2 or 5/8 to denote air terminal thread size.



**BB21A**

### Aluminum

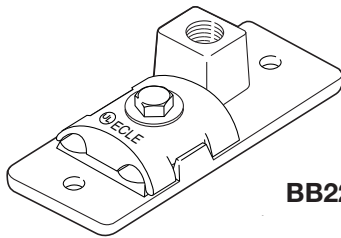
Approximately 5.2 oz. (148 grams). Use suffix 1/2 or 5/8 to denote air terminal thread size.



**BB22B**

### Narrow Top Mount

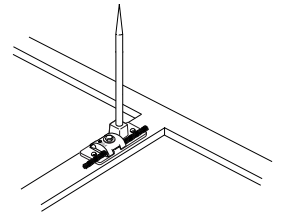
Cast bronze base for mounting to narrow flat surfaces; comes with a two-way bolt pressure cable holder. Versatile narrow design works well in many situations. Stainless steel bolt and washer. Use suffix 3/8, 1/2 or 5/8 to denote air terminal thread size. 1-5/8" x 4-1/2" (41.28mm x 114.3mm); approximately 14.9 oz. (422 grams).



**BB22A**

### Aluminum

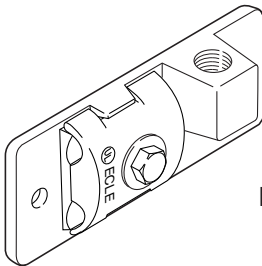
Approximately 5 oz. (142 grams). Use suffix 1/2 or 5/8 to denote air terminal thread size.



**BB23B**

### Narrow Horizontal Side Mount

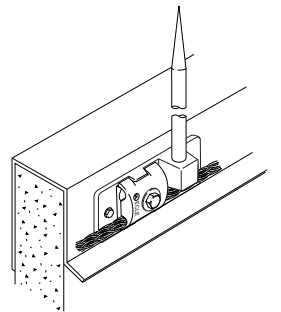
Cast bronze base for side mounting to narrow horizontal surfaces. Two-way bolt pressure cable holder. Stainless steel bolt and washer. Use suffix 3/8, 1/2 or 5/8 to denote air terminal thread size. 1-5/8" x 4-1/2" (41.28mm x 114.3); approximately 14.9 oz. (422 grams).



**BB23A**

### Aluminum

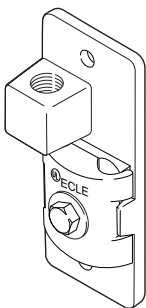
Approximately 5 oz. (142 grams). Use suffix 1/2 or 5/8 to denote air terminal thread size.



**BB24B**

### Narrow Vertical Side Mount

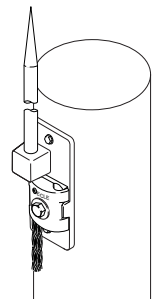
Cast bronze base for side mounting to narrow vertical surfaces. Two-way bolt pressure cable holder. Stainless steel bolt and washer. Use suffix 3/8, 1/2 or 5/8 to denote air terminal thread size. 1-5/8" x 4-1/2" (41.28mm x 114.3mm); approximately 14.9 oz. (422 grams).



**BB24A**

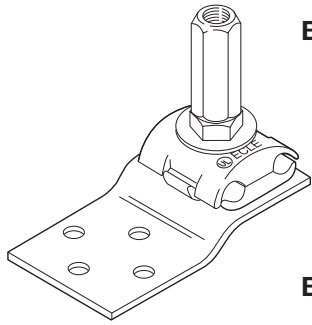
### Aluminum

Approximately 5 oz. (142 grams). Use suffix 1/2 or 5/8 to denote air terminal thread size.



**NOTE:** Copper & bronze fittings are also available tinned.

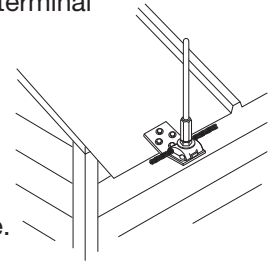
## Bolt Bases - BB



**BB25B**

### Adjustable Base

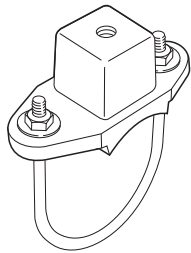
Copper/bronze base easily conforms to flat or pitched surfaces. Pressed copper bottom measures 2" x 4" (5.1cm x 10.2cm). Cast bronze two-way cable holder with brass hex air terminal receptacle. Stainless steel fasteners. Use suffix 3/8, 1/2 or 5/8 to denote air terminal thread size. Approximately 12.4 oz. (349 grams).



**BB25A**

### Aluminum

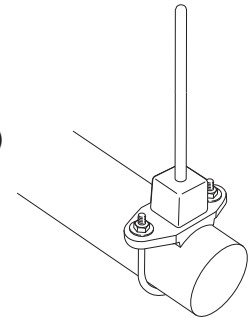
Approximately 6.5 oz. (183 grams).  
Use suffix 1/2 or 5/8 to denote air terminal thread size.



**BB26B**

### Horizontal Pipe Top Mount

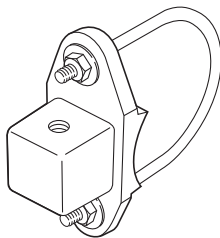
Cast bronze base with stainless steel U-bolt, nuts and washers. Fits pipes up to 3" OD. For mounting air terminals to the top of horizontal pipes or railings where conductor is not required. 4.25" x 1.5" (10.8 cm x 3.8 cm) Approximately 17.6 oz. (498 grams)  
Use suffix 3/8, 1/2 or 5/8 to denote air terminal thread size.



**BB26A**

### Aluminum

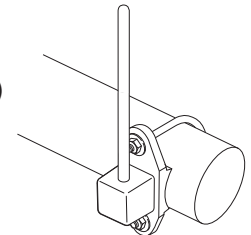
Approximately 7.5 oz. (212 grams).  
Use suffix 1/2 or 5/8 to denote air terminal thread size.



**BB27B**

### Horizontal Pipe Side Mount

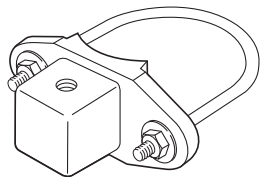
Cast bronze base with stainless steel U-bolt, nuts and washers. Fits pipes up to 3" OD. For mounting air terminals to the side of horizontal pipes or railings where conductor is not required. 4.25" x 1.5" (10.8 cm x 3.8 cm) Approximately 17.6 oz. (498 grams)  
Use suffix 3/8 or 1/2 to denote air terminal thread size.



**BB27A**

### Aluminum

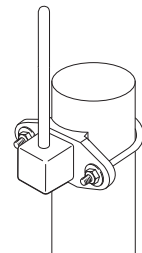
Approximately 7.5 oz. (212 grams).  
Use suffix 1/2 to denote air terminal thread size.



**BB28B**

### Vertical Pipe Mount

Cast bronze base with stainless steel U-bolt, nuts and washers. Fits pipes up to 3" OD. For mounting air terminals to vertical pipes or railings where conductor is not required. 4.25" x 1.5" (10.8 cm x 3.8 cm) Approximately 17.6 oz. (498 grams) Use suffix 3/8, 1/2 or 5/8 to denote air terminal thread size.



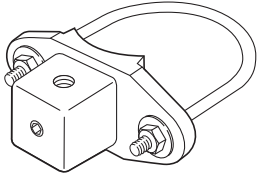
**BB28A**

### Aluminum

Approximately 7.5 oz. (212 grams).  
Use suffix 1/2 or 5/8 to denote air terminal thread size

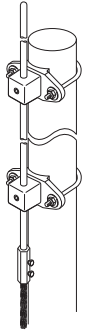


## Bolt Bases - BB

**BB29B**

### Vertical Pipe Mount with Set Screw

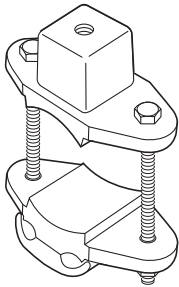
Cast bronze base with stainless steel U-bolt, nuts and washers. Fits pipes up to 3" OD. For mounting air terminals to vertical pipes or railings where conductor is not required. Threaded to accept set screw for locking air terminals in place. 4.25" x 1.5" (10.8 cm x 3.8 cm) Approximately 17.6 oz. (498 grams) Use suffix 3/8, 1/2 or 5/8 to denote air terminal thread size.

**BB29A**

### Aluminum

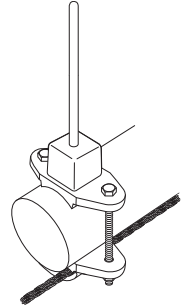
Approximately 7.5 oz. (212 grams).

Use suffix 1/2 or 5/8 to denote air terminal thread size.

**BB30B**

### Horizontal Pipe - Top Mount with Cable Holder

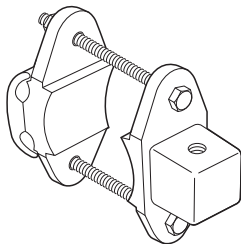
Cast bronze base for mounting air terminals to the top of horizontal pipes or railings up to 3" OD. 2-way bolt pressure cable holder fits cables up to 4/0. 4" (10.2 cm) stainless steel bolts, nuts, washers. 4.5" x 1.5" (11.4 cm x 3.8 cm) (Approximately 855 grams) Use suffix 3/8, 1/2 or 5/8 to denote air terminal thread size.

**BB30A**

### Aluminum

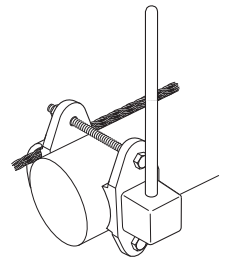
Approximately 11.5 oz. (325 grams).

Use suffix 1/2 or 5/8 to denote air terminal thread size.

**BB31B**

### Horizontal Pipe - Side Mount with Cable Holder

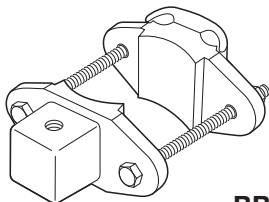
Cast bronze base for mounting air terminals to the side of horizontal pipes or railings up to 3" OD. 2-way bolt pressure cable holder fits cables up to 4/0. 4" (10.2 cm) stainless steel bolts, nuts, washers. 4.5" x 1.5" (11.4 cm x 3.8 cm) (Approximately 855 grams) Use suffix 3/8, 1/2 or 5/8 to denote air terminal thread size.

**BB31A**

### Aluminum

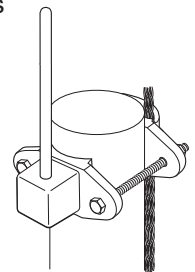
Approximately 11.5 oz. (325 grams).

Use suffix 1/2 or 5/8 to denote air terminal thread size.

**BB32B**

### Vertical Pipe Mount with Cable Holder

Cast bronze base for mounting air terminals to vertical pipes or railings up to 3" OD. 2-way bolt pressure cable holder fits cables up to 4/0. 4" (10.2 cm) stainless steel bolts, nuts, washers. 4.5" x 1.5" (11.4 cm x 3.8 cm) (Approximately 855 grams) Use suffix 3/8, 1/2 or 5/8 to denote air terminal thread size.

**BB32A**

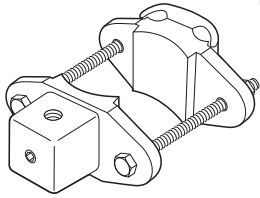
### Aluminum

Approximately 11.5 oz. (212 grams).

Use suffix 1/2 or 5/8 to denote air terminal thread size.

NOTE: Copper & bronze fittings are also available tinned.

## **Bolt Bases - BB**



### **BB33B**

#### **Vertical Pipe Mount with Set Screw**

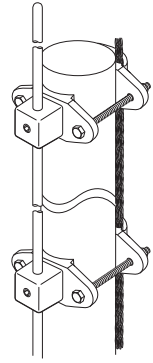
Cast bronze base for mounting air terminals to the top of vertical pipes up to 3" OD. 2-way bolt pressure cable holder fits cables up to 4/0. 4" (10.2 cm) stainless steel bolts, nuts, washers. 4.5" x 1.5" (11.4 cm x 3.8 cm) (Approximately 855 grams) Use suffix 3/8, 1/2 or 5/8 to denote air terminal thread size.

### **BB33A**

#### **Aluminum**

Approximately 11.5 oz. (212 grams).

Use suffix 1/2 or 5/8 to denote air terminal thread size.

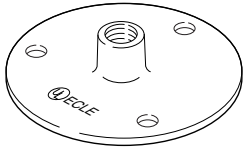


## Point Mounts - PM

### PM1B

#### Round

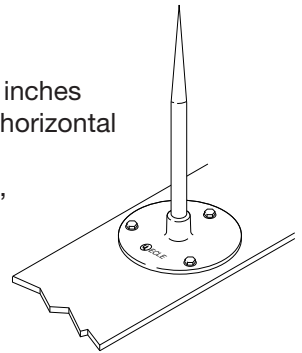
A cast bronze base with no cable holder. 8 square inches of contact. For direct mounting of air terminals on horizontal steel surfaces or vents. 3-1/4" (8.26cm) diameter; approximately 6.75 oz. (191 grams). Use suffix 3/8, 1/2 or 5/8 to denote air terminal thread size.



### PM1A

#### Aluminum

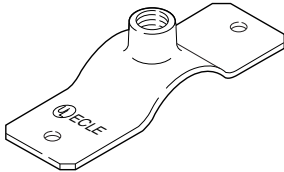
Approximately 2.25 oz. (64 grams). Use suffix 1/2 or 5/8 to denote air terminal thread size.



### PM2B

#### Bump Back

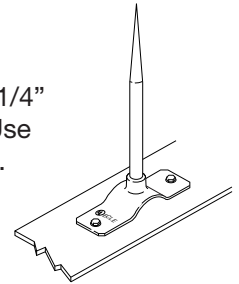
A cast malleable bronze base with no cable holder. For use on contoured or sloped surfaces. 1-1/2" x 4-1/4" (3.8cm x 10.8cm); approximately 5 oz. (142 grams). Use suffix 3/8, 1/2 or 5/8 to denote air terminal thread size.



### PM2A

#### Aluminum

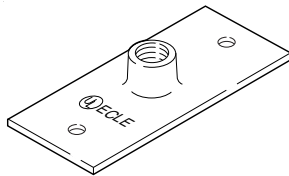
Approximately 1.6 oz. (45 grams). Use suffix 1/2 or 5/8 to denote air terminal thread size.



### PM3B

#### Flat Back

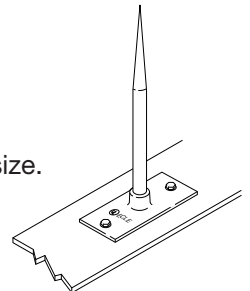
A cast malleable bronze base with no cable holder. For use on flat or contoured surfaces. 2" x 4" (5.1cm x 10.2cm); approximately 5 oz. (142 grams). Use suffix 3/8, 1/2 or 5/8 to denote air terminal thread size.



### PM3A

#### Aluminum

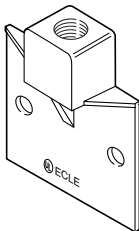
Approximately 2 oz. (57 grams). Use suffix 1/2 or 5/8 to denote air terminal thread size.



### PM5B

#### Side Mount

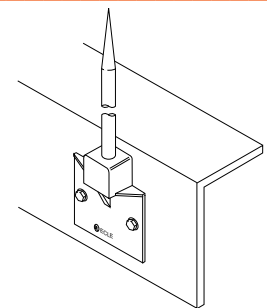
A cast bronze base with no cable holder. 2-15/16" x 2-15/16" (7.5cm x 7.5cm); approximately 7.5 oz. (213 grams). Use suffix 3/8, 1/2 or 5/8 to denote air terminal thread size.



### PM5A

#### Aluminum

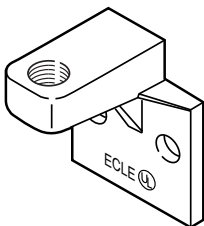
Approximately 2.5 oz. (71 grams). Use suffix 1/2 or 5/8 to denote air terminal thread size.



### PM7B

#### Offset Side Mount

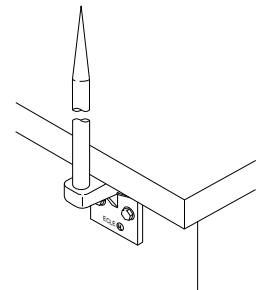
Cast bronze base with no cable holder. For direct mounting of air terminals on vertical surfaces where an off-set is necessary. Offset is 1-1/2" (38.1mm). 2-1/8" x 2" (53.98mm x 50.8mm); approximately 9.6 oz. (272 grams).

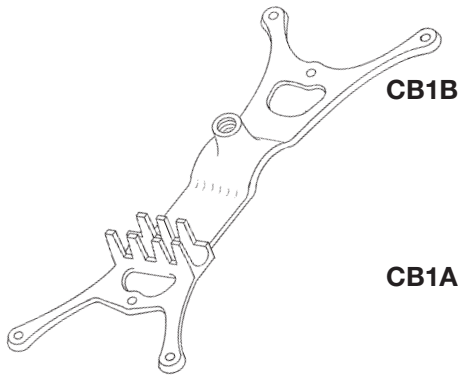


### PM7A

#### Aluminum

Approximately 3.2 oz. (91 grams).



**CB1B**

## **Crimp Bases - CB (for Class I installations)**

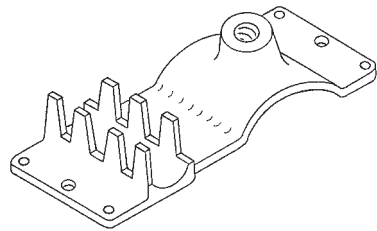
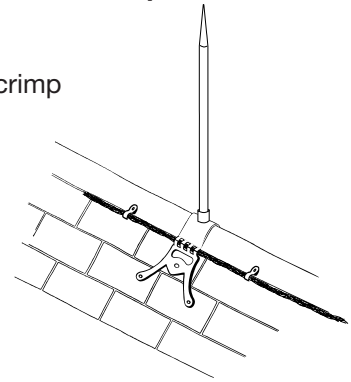
### **Ridge Saddle**

Cast bronze malleable ridge saddle with crimp cable holder. 3/8" thread only.  
4" x 8-1/2" (10.2cm x 21.6cm);  
approximately 7.5 oz. (213 grams).

**CB1A**

### **Aluminum**

1/2" thread only.  
4-1/2" x 10-3/4" (11.4cm x 27.3cm);  
approximately 5 oz. (142 grams).

**CB2B**

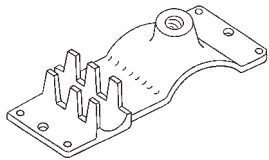
### **Flat Top**

Cast bronze malleable masonry or parapet base with crimp cable holder. Available with 3/8" or 1/2" thread. 2" x 5-1/4" (5.1cm x 13.3cm);  
approximately 10.5 oz. (213 grams).

**CB2A**

### **Aluminum**

1/2" thread only.  
Approximately 3.5 oz. (142 grams).

**CB2BM**

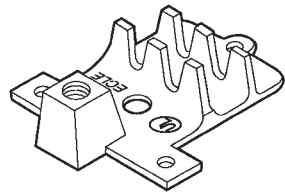
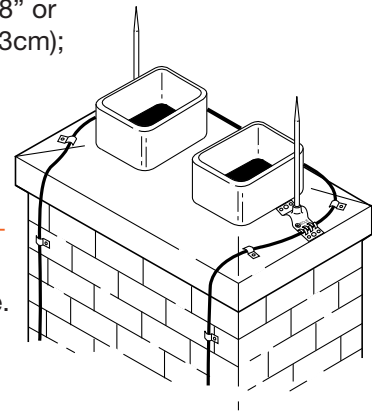
### **Masonry Base**

Cast bronze malleable masonry base. 3/8" thread only.  
1-1/2" x 4-7/8" (3.8cm x 12.4cm);  
approximately 6.2 oz. (176 grams).

**CB2TM**

### **Tinned**

Approximately 6.2 oz. (176 grams).

**CB4B**

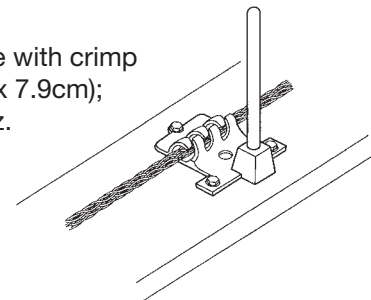
### **Top Mount**

Cast bronze malleable top mount base with crimp cable holder. 1-7/8" x 3-1/8" (4.75cm x 7.9cm);  
(3/8" thread only) approximately 5.5 oz. (156 grams).

**CB4A**

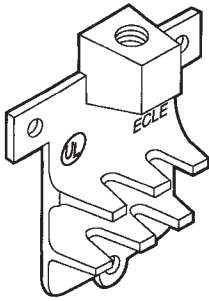
### **Alumium**

1/2" thread only.  
Approximately 2.0 oz. (57 grams).

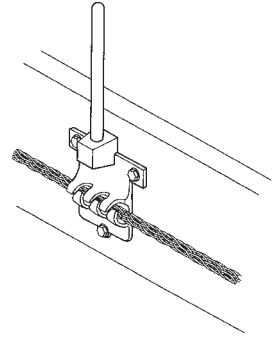


**NOTE:** Copper & bronze fittings are also available tinned.

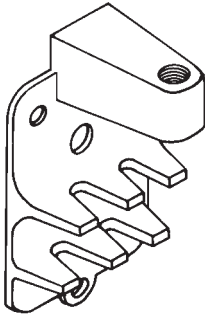
## **Crimp Bases - CB**



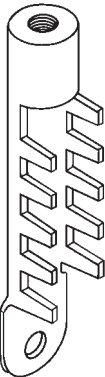
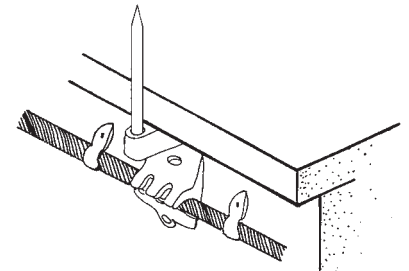
- CB5B Side Mount**  
Cast bronze malleable side mount base with crimp cable holder.  
1-7/8" x 3-1/8" (4.75cm x 8.3cm);  
approximately 5.5 oz. (156 grams).  
3/8" thread shown.  
Also available for 1/2" thread.



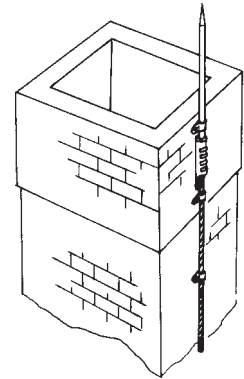
- CB5A Aluminum**  
2" x 4" (5.1cm x 10.2cm);  
approximately 2.4 oz. (68 grams).  
1/2" thread only.



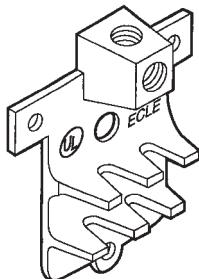
- CB7B Off-Set**  
Cast bronze malleable side mount base with 1-3/8" (3.5cm) offset and crimp cable holder.  
1-7/8" x 1-1/8" (4.75cm x 8.25cm);  
approximately 7.5 oz. (213 grams).  
3/8" thread only.



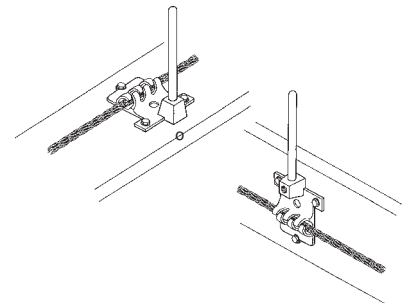
- CB8B Cable-3/8"**  
Cast bronze malleable cable to 3/8" threaded rod or air terminal base. Crimp cable holder. 5/8" x 4-1/2" (1.6cm x 11.4cm); approximately 4 oz. (113 grams).  
3/8" thread only.



- CB8T Tinned**  
Approximately 4 oz. (113 grams).



- CB9B Dual Threaded**  
Cast bronze malleable dual 3/8" threaded base for side or top mounting. Crimp cable holder.  
1-7/8" x 3-1/8" (4.75cm x 3.13cm);  
approximately 5.5 oz. (156 grams).  
Use suffix "S" to request optional set screw.

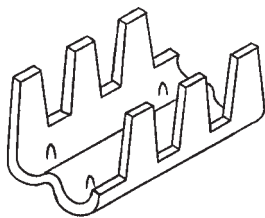


**NOTE:** Copper & bronze fittings are also available tinned.

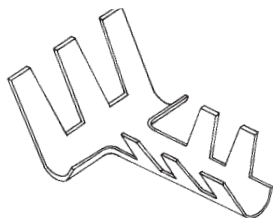
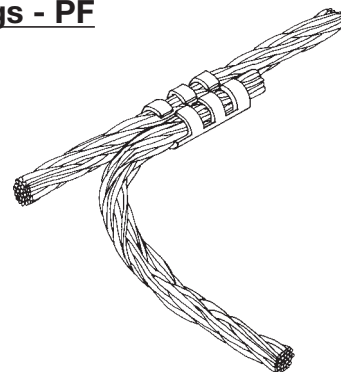


## Crimp Fittings - CF      Pressed Fittings - PF

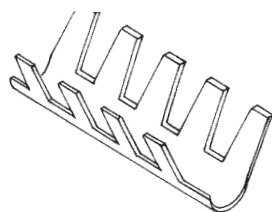
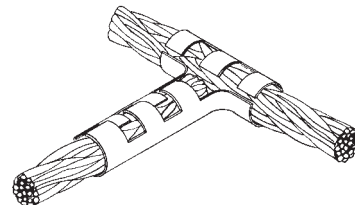
### TWINS



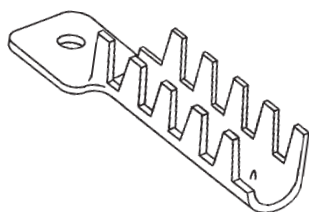
- CF1B**      **Cast Soft Bronze**, crimp parallel cable splicer.  
2" x 1-3/16" (5.1cm x 3cm); approximately  
2.5 oz. (71 grams).
- CF1T**      **Tinned**
- PF1C**      **Stamped Copper**, crimp parallel cable splicer.
- PF1A**      **Stamped Aluminum**



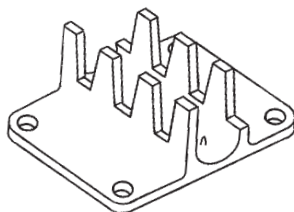
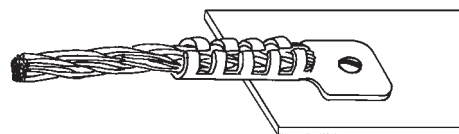
- ### TEES
- PF2C**      **Stamped Copper**, crimp perpendicularly  
dissecting cable splicer.
- PF2T**      **Tinned**
- PF2A**      **Stamped Aluminum**



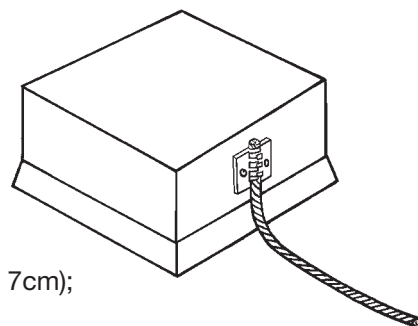
- ### STRAIGHTS
- PF3C**      **Stamped Copper**, crimp in-line  
abutting cable splicer.
- PF3T**      **Tinned**
- PF3A**      **Stamped Aluminum**



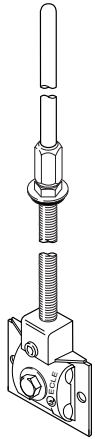
- ### BONDING LUGS
- CF4B**      **Cast Soft Bronze**, crimp splicer for cable to metallic body connections.  
Use for inter-connections to door tracks, eave troughs, etc.  
Approximately 5/8" x 3-1/2" (1.59cm x 8.9cm); 2.3 oz. (65 grams).
- CF4T**      **Tinned**  
Approximately 2.3 oz. (65 grams).
- CF4A**      **Cast Aluminum**  
Approximately 1.5 oz. (43 grams).



- ### BONDING PLATES
- CF6B**      **Cast Soft Bronze**, crimp cable to  
metallic surface fitting. Approximately  
1-13/16" x 2-3/8" (4.6cm x 6cm);  
3.5 oz. (99 grams).
- CF6T**      **Tinned**
- CF6A**      **Cast Aluminum**  
Approximately 2-1/8" x 2-3/4" (5.4cm x 7cm);  
2 oz. (57 grams).



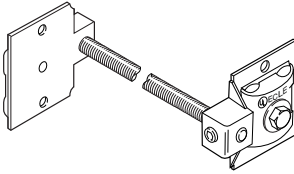
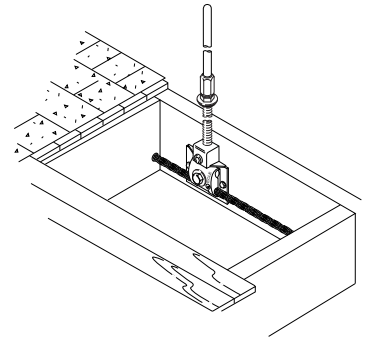
## Thru-Structure Assemblies - TS



**\*\*TS1**

### Thru-Roof Assembly

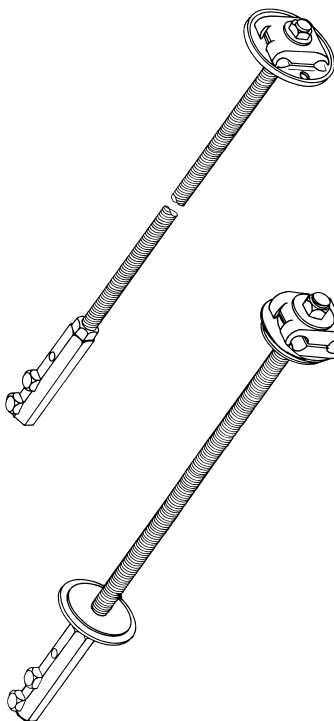
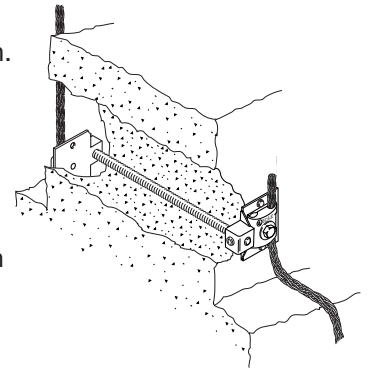
Supplied with 12" (30.5cm) threaded rod, stainless steel locking set screws, EPDM washer, stainless steel washer and nut, rod to air terminal coupling and 12" (30.5cm) air terminal.



**\*\*TS2**

### Thru-Roof or Wall Assembly

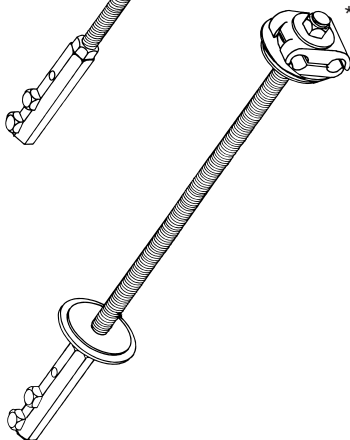
Supplied with 12" (30.5cm) threaded rod, stainless steel locking set screws and bolt pressure cable holder. The fittings are available in aluminum, bronze or one of each.



**\*\*TS3**

### Thru-Roof or Wall Assembly

For right angle to straight tap. Supplied with 12" (30.5cm) threaded rod, nut and EPDM washer. The fittings are available in aluminum, bronze or one of each.



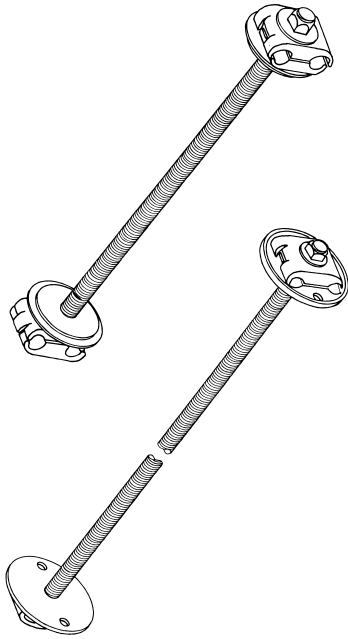
**\*\*TS4**

### Thru-Roof or Wall Assembly

For right angle to straight tap. Supplied with 12" (30.5cm) threaded rod, 2 stainless steel fender washers, 2 EPDM washers, 2 nuts and a fully adjustable bolt pressure cable holder. The fittings are available in aluminum, bronze or one of each.

**\*\*** When ordering Thru-Structure Assemblies – specify material, threaded rod length and diameter. Many lengths and connectors are available for special connections. Call the factory with your specific needs.

## Thru-Structure Assemblies - TS

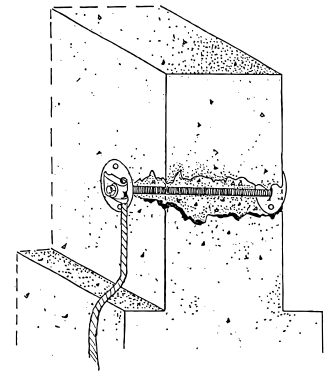


### **\*\* TS5 Thru-Roof or Wall Assembly**

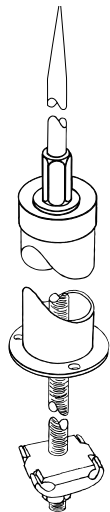
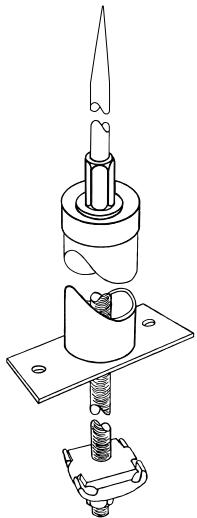
For right angle connections. Supplied with 12" (30.5cm) threaded rod, 2 stainless steel fender washers, 2 EPDM washers, 2 nuts and fully adjustable cable holders. The fittings are available in aluminum, bronze or one of each.

### **\*\* TS6 Thru-Roof or Wall Assembly**

Connector end has mounting holes for direct attachment to concrete or other surfaces. Supplied with 12" (30.5cm) threaded rod. The fittings are available in aluminum, bronze or one of each.



## Thru-Structure Assemblies with 1-1/2" Diameter PVC - TS



### **\*\* TS7 Rectangle Mount -**

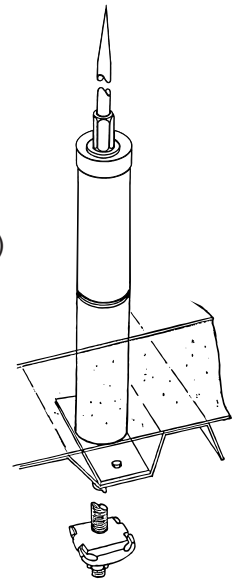
#### **Air Terminal To Horizontal Cable Assembly**

Supplied with 18" (45.7cm) of 1/2-13 threaded rod, 12" (30.5cm) of Schedule 40 PVC tubing, fully adjustable bolt pressure cable holder, EPDM washer, stainless steel hardware, rod to air terminal coupling, 12" (30.5cm) air terminal and 2" x 4" (5.1cm x 10.2cm) mount to fit corrugated steel decking or for fastening to any flat surface.

### **\*\* TS8 Round Mount -**

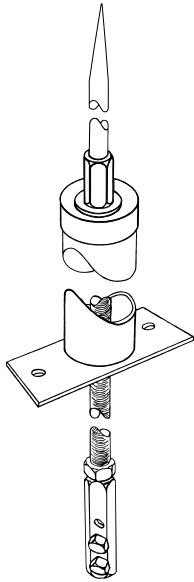
#### **Air Terminal To Horizontal Cable Assembly**

Supplied with 18" (45.7cm) of 1/2-13 threaded rod, 12" (30.5cm) of Schedule 40 PVC tubing, fully adjustable bolt pressure cable holder, EPDM washer, stainless steel hardware, rod to air terminal coupling, 12" (30.5cm) air terminal and 3-1/4" (8.3cm) diameter mount for fastening to flat decking.



**\*\* When ordering Thru-Structure Assemblies – specify material, threaded rod length and diameter. Many lengths and connectors are available for special connections. Call the factory with your specific needs.**

## Thru-Structure Assemblies with 1-1/2" Diameter PVC - TS

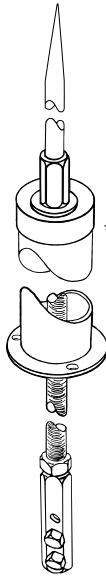


**\*\* TS9**

### **Rectangle Mount -**

#### **Air Terminal To Vertical Cable Assembly**

Supplied with 18" (45.7cm) of 1/2-13 threaded rod, 12" (30.5cm) of Schedule 40 PVC tubing, EPDM washer, stainless steel hardware, rod to air terminal coupling, 12" (30.5cm) air terminal and 2" x 4" (5.1cm x 10.2cm) mount to fit corrugated steel decking or for fastening to any flat decking.

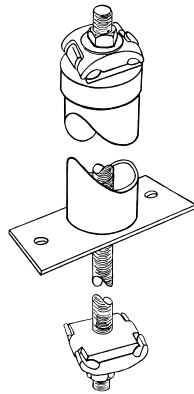
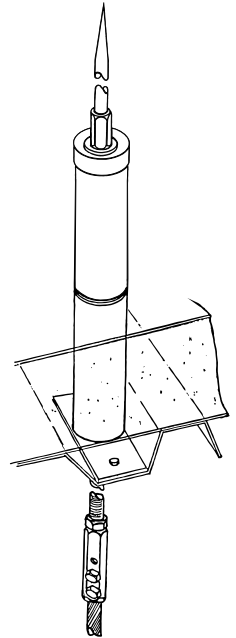


**\*\* TS10**

### **Round Mount -**

#### **Air Terminal To Vertical Cable Assembly**

Supplied with 18" (45.7cm) of 1/2-13 threaded rod, 12" (30.5cm) of Schedule 40 PVC tubing, EPDM washer, stainless steel hardware, rod to air terminal coupling, 12" (30.5cm) air terminal and 3-1/4" (8.3cm) diameter mount for fastening to flat decking.

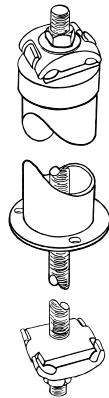


**\*\* TS11**

### **Rectangle Mount -**

#### **Cable To Horizontal Cable Assembly**

Supplied with 18" (45.7cm) of 1/2-13 threaded rod, 12" (30.5cm) of Schedule 40 PVC tubing, stainless steel hardware, fully adjustable bolt cable holder, and 2" x 4" (5.1cm x 10.2cm) mount to fit corrugated steel decking or for fastening to flat decking.

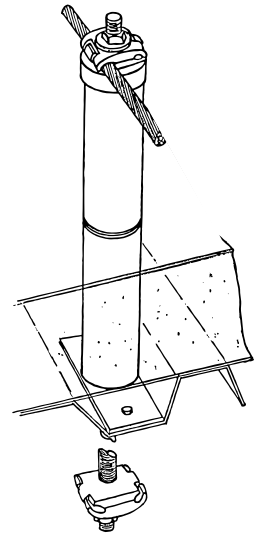


**\*\* TS12**

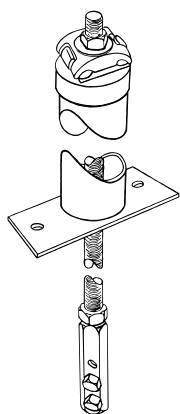
### **Round Mount -**

#### **Cable To Horizontal Cable Assembly**

Supplied with 18" (45.7cm) of 1/2-13 threaded rod, 12" (30.5cm) of Schedule 40 PVC tubing, stainless steel hardware, fully adjustable bolt cable holder, and 3-1/4" (8.3cm) diameter mount for fastening to flat decking.



**\*\*** When ordering Thru-Structure Assemblies – specify material, threaded rod length and diameter. Many lengths and connectors are available for special connections. Call the factory with your specific needs.

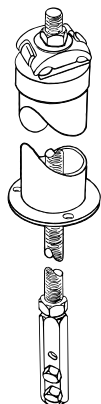


\*\* TS13

### Thru-Structure Assemblies for 1-1/2" Diameter PVC - TS

#### **Rectangle Mount - Cable To Vertical Cable Assembly**

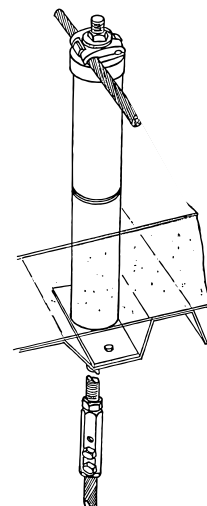
Supplied with 18" (45.7cm) of 1/2-13 threaded rod, 12" (30.5cm) of Schedule 40 PVC tubing, stainless steel hardware, and 2" x 4" (5.1cm x 10.2cm) mount to fit corrugated steel decking or for fastening to any flat decking.



\*\* TS14

#### **Round Mount - Cable to Vertical Cable Assembly**

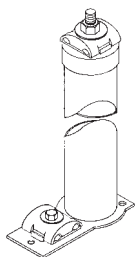
Supplied with 18" (45.7cm) of 1/2-13 threaded rod, 12" (30.5cm) of Schedule 40 PVC tubing, stainless steel hardware, and 3-1/4" (8.3cm) diameter mount for fastening to flat decking.



\*\* TS15

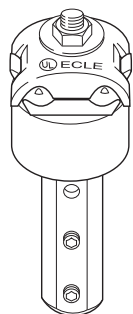
#### **Deckmount Assembly**

Supplied with 18" (45.7cm) of 1/2-13 threaded rod, 16" (40.6cm) of Schedule 40 PVC tubing, BB21 base and CC2 top, both have fully adjustable cable holders. Stainless steel hardware. Easily mounts to flat or corrugated decking.



#### **TS16B 1" PVC Capped Assembly**

1" diameter PVC cap for top end of 1" PVC conduit chases. Two-way bronze cable holder, stainless steel hardware and EPDM washer. Brass hex cable holder with stainless steel set screws and nut. 3" of 1/2" diameter stainless steel threaded rod between. 5-1/4" x 2-1/2" (13.3cm x 6.35cm).

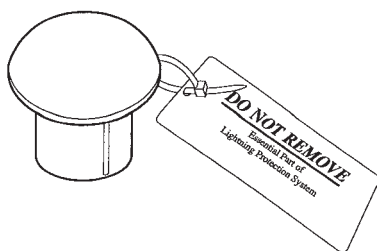


#### **TS16A Aluminum**

1" diameter PVC Cap with Aluminum fittings.

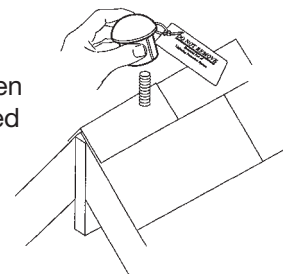
#### **TS16 Bimetal**

1" diameter PVC Cap with Aluminum Top and Brass Bottom.

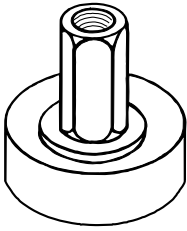


### Thru-Roof Protector

Reusable Thru-Roof Protector is bright neon-green durable plastic. Fits snugly over thru-roof threaded rod stubs. Comes with waterproof warning tag in English and Spanish.



## Conduit Caps - CC

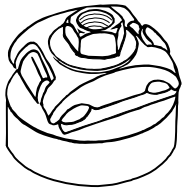
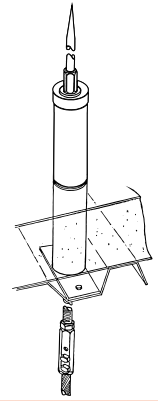


### CC1B Air Terminal Conduit Cap

A cast bronze cap machined to fit snugly on Schedule 40 1-1/2" (3.8cm) PVC tubing. Threaded to accept 1/2-13 threaded rod. Comes with rod coupling to attach air terminal, 1/2" EPDM washer and 1/2" flat washer. Approximately 4.5 oz. (128 grams). Use suffix 3/8 or 1/2 to denote air terminal thread size.

### CC1A Aluminum

Approximately 1.3 oz. (37 grams).  
Use suffix 1/2 or 5/8 to denote air terminal thread size.



### CC2B Conduit Cap

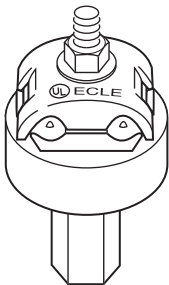
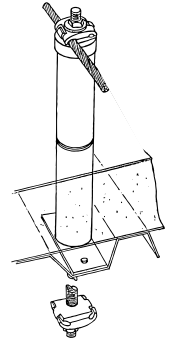
A cast bronze cap machined to fit snugly on Schedule 40 1-1/2" (3.8cm) PVC tubing. Threaded to accept 1/2-13 threaded rod. Comes with 1/2" flat washer and 1/2" nut. Approximately 9.0 oz. (255 grams).

### CC2A Aluminum

Approximately 3.4 oz. (96 grams).

### CC2T Tinned

Approximately 9.0 oz. (255 grams).

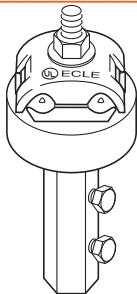
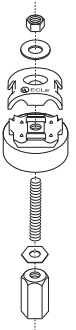


### CC3B Conduit Cap to Threaded Rod

Cast bronze cap with bolt pressure cable holder machined to fit snugly over 1-1/2" Schedule 40 PVC conduit. Internally threaded brass hex stock adapter extends below. Stainless steel nut and washer. Overall height 2.8" (7cm). Approximately 12.8 oz. (363 grams). Specify 3/8 or 1/2 internal thread size when ordering.

### CC3A Aluminum

Approximately 4.8 oz. (136 grams).  
Specify 1/2 or 5/8 internal thread size when ordering.

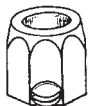


### CC4B Conduit Cap to Cable

Cast bronze cap with bolt pressure cable holder machined to fit snugly over 1-1/2" Schedule 40 PVC conduit. Has brass hex stock bolt pressure cable holder extending below. Stainless steel bolts, nuts and washer. Overall height 4.2" (10.6CM). Approximately 15.2 oz. (431 grams).

### CC4A Aluminum

Approximately 5.6 oz. (159 grams).

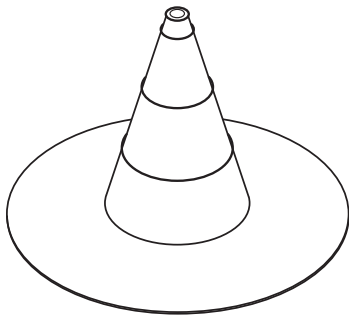


### Conduit Bushing

A brass conduit bushing to be used with 1/2" copper pipe cable guards. Has set screw for bonding cable to copper pipe. 7/8" x 3/4" (2.22cm x 1.9cm); approximately 1.1 oz. (31.2 grams).





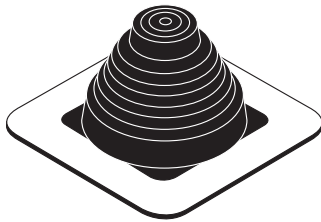
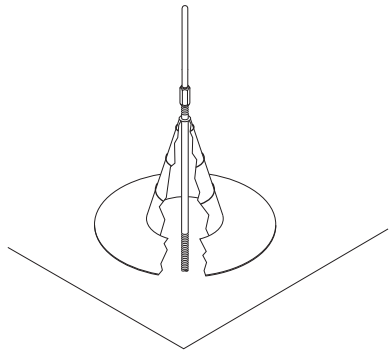


## Roof Penetration Flashing

### Rubber Boot

For single membrane roof penetrations. EPDM flashing boot is 6" tall with 10-1/2" diameter skirt. For use on rods and pipes with outside diameters 1/2" to 3". Comes with stainless steel adjustable pipe clamp. Mount with compatible roof adhesive.

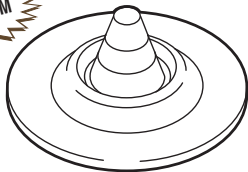
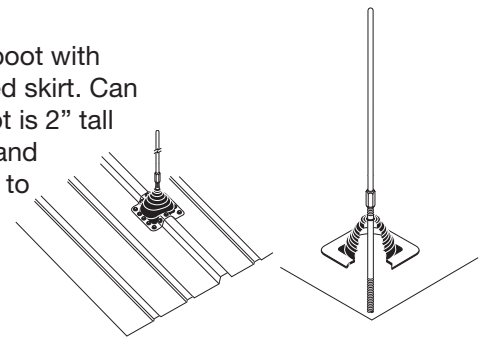
Other sizes available, call factory.



### Metal/Rubber Boot

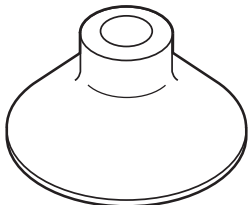
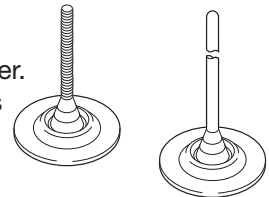
For metal roof penetrations. EPDM boot with integrated, flexible aluminum trimmed skirt. Can be molded to metal roof seams. Boot is 2" tall and 4-1/2" square. For use on rods and pipes with outside diameters of 1/4" to 2". Mount with stainless steel fasteners.

Also available in Silicone Rubber.



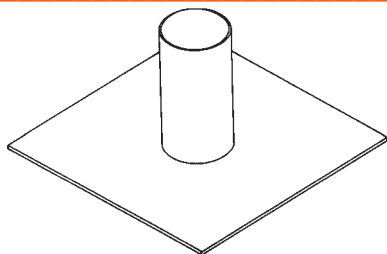
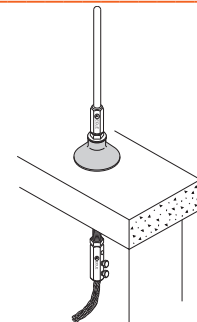
### Mini Boot

For small metal roof penetration up to 7/8" in diameter. Gray EPDM with flexible aluminum base ring. Boot is 3-3/4" (95.3mm) tall with a 3-5/8" (92mm) diameter. Approximately 1.4 oz. (39 grams).



### Aluminum Sealing Cone

Cast aluminum sealing cone for thru-roof penetrations. Cone can be filled with sealant compatible with roof material and drawn down to provide a moisture resistant seal. Diameter of center hole is 1/2" (12.7mm). 3" x 1-1/2" (76mm x 38mm). Approximately 2.2 oz. (62 grams).

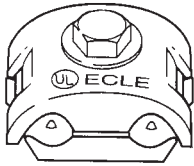


### Pitch Pocket

Pitch Pockets are available in custom sizes to meet your special requirements. Standard pitch pocket is .032 x 6 x 6 inch square (.08cm x 15.2cm x 15.2cm) with a 4" (10.16cm) riser that is 3/4" (1.9cm) in diameter.

Call factory for details.

## Bolt Fittings - BF



**BF1B**

**Round-Round**

Cast bronze, bolt pressure cable to cable or cable to rod clamp. 1-1/4" stainless steel hex head bolt and washer. 1-9/16" x 1-3/4" (4cm x 4.45cm); approximately 6.3 oz. (179 grams).

**BF1BM**

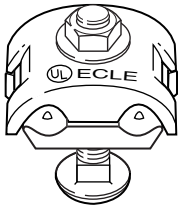
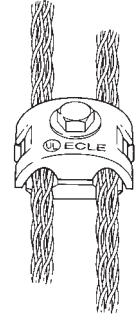
**Modified Round-Round**

Cast Bronze, as above with shorter 1" hex head bolt.

**BF1A**

**Aluminum**

Approximately 3 oz. (85 grams).



**BF100B**

**Round-Round** *US PATENT NO. 424, 924*

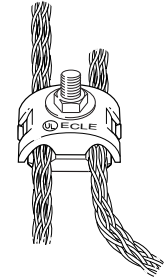
Cast bronze bolt pressure cable to cable or cable to rod clamp. 1-1/2" stainless steel carriage bolt. Specifically designed for cable splices on single membrane roofs. 1-9/16" x 1-3/4" (39.7mm x 44.45mm); approximately 7.6 oz. (215 grams).

**BF100A**

**Aluminum**

Approximately 3 oz. (85 grams).

*US PATENT NO. 424, 924*



**BF1BX**

**Round to Round "Drilled Out"**

Cast bronze bottom and two-way cap for joining cable to rod. Bottom is drilled out but not threaded. Stainless steel washer and nut included. 1-9/16" x 1-3/4" (39.7mm x 44.45mm); approximately 6.8 oz. (193 grams).

**BF1AX**

**Aluminum**

Approximately 2.3 oz. (65 grams).

**BF1BX1/2**

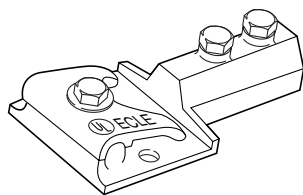
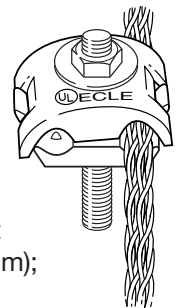
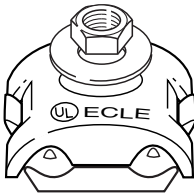
**Round To Round "Spin On"**

Cast bronze bottom and two-way cap with 1/2" diameter threaded hole for joining cable to threaded rod. Bottom is drilled and threaded for 1/2" (12.7mm). Stainless steel nut and washer included. 1-9/16" x 1-3/4" (39.7mm x 44.45mm); approximately 6.8 oz. (193 grams).

**BF1AX1/2**

**Aluminum**

Approximately 2.3 oz. (65 grams).



**BF2B**

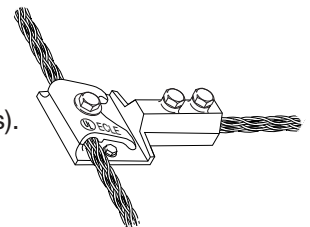
**Tee**

Cast bronze pressure "tee" splicer. Stainless steel bolts and washer. 2-1/4" x 2" x 5" (5.7cm x 5.1cm x 12.7cm); approximately 10 oz. (284 grams).

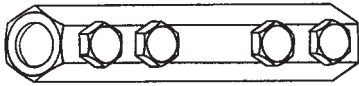
**BF2A**

**Aluminum**

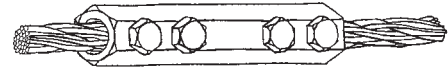
Approximately 3.5 oz. (99 grams).



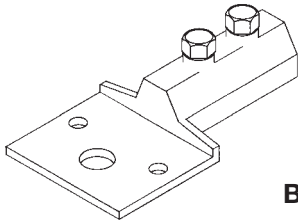
**NOTE:** Copper & bronze fittings are also available tinned.

**Bolt Fittings - BF****BF3B****Straight**

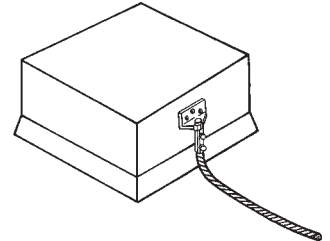
4-bolt hex brass straight splicer.  
Stainless steel bolts.  
3-1/2" x 3/4" (8.9cm x 1.9cm) hex;  
approximately 6 oz. (170 grams).

**BF3A****Aluminum**

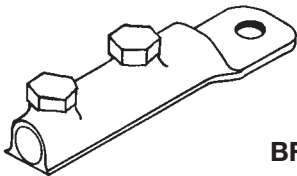
Approximately 2 oz. (57 grams).

**BF4B****Bonding Lug**

Cast bronze primary cable to metal surface  
bonding lug. Has over four square inches  
of contact. Stainless steel bolts.  
2-1/4" x 2" x 5" (5.7cm x 5.1cm x 12.7cm);  
approximately 9 oz. (255 grams).

**BF4A****Aluminum**

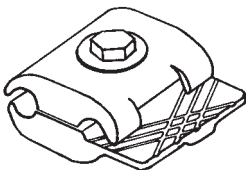
Approximately 3 oz. (85 grams).

**BF5B****Mini Bonding Lug**

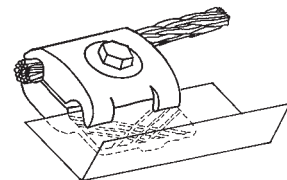
Cast bronze secondary cable to metal surface  
bonding lug. Stainless steel bolts.  
3-1/2" x 9/16" (8.9cm x 1.4cm);  
approximately 3 oz. (85 grams).

**BF5A****Aluminum**

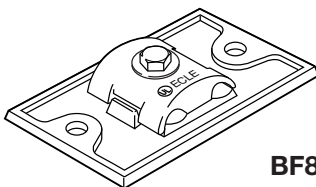
Approximately 2 oz. (57 grams).

**BF7B****Round to Flat**

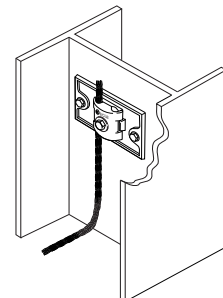
Cast bronze bolt pressure cable to flat surface  
clamp. Stainless steel bolt and washer.  
1-9/16" x 2-1/4" (4cm x 5.7cm);  
approximately 7.3 oz. (207 grams).

**BF7A****Aluminum**

Approximately 3 oz. (85 grams).

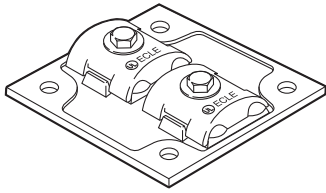
**BF8B****2-Way Bonding Plate**

Cast bronze, 8-square-inch bonding plate with  
2-way bolt pressure cable holder. Stainless steel  
bolt and washer. 2-1/16" x 4" (52.38mm x  
101.6mm). Approximately 10.3 oz. (292 grams).

**BF8A****Aluminum**

Approximately 3.8 oz. (108 grams).

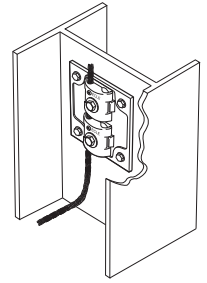
## Bolt Fittings - BF



**BF800B**

### 16 Square Inch Bonding Plate

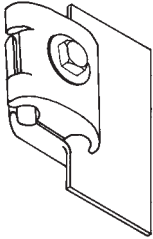
Heavy duty cast bronze, 16 square inch bonding plate with 2 two-way bolt pressure cable holders. Stainless steel bolts and washers. 4" x 4" (102mm x 102mm). Approximately 1 lb 6.8 oz. (647 grams).



**BF800A**

### Aluminum

Approximately 9.12 oz. (260 grams).



**BF9B**

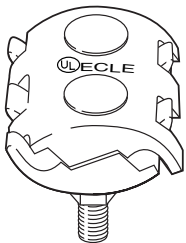
### Bonding Clamp

Cast bronze, 4-square-inch bonding clamp with bolt pressure cable holder. Stainless steel bolt and washer. Approximately 9 oz. (255 grams).

**BF9A**

### Aluminum

Approximately 3 oz. (85 grams).



**BF10B**

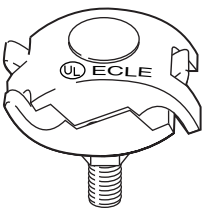
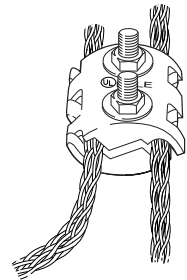
### 2-Bolt Parallel

Cast bronze clamp for splicing or connecting two rods, two cables or rod to cable. Stainless steel carriage bolts with nuts and washers. 2" x 1-5/8" (5.1cm x 4.13cm); approximately 8 oz. (227 grams).

**BF10A**

### Aluminum

Approximately 2.5 oz. (71 grams).



**BF11B**

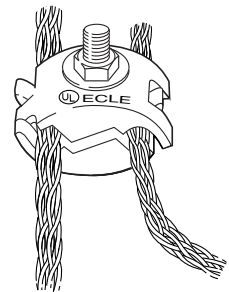
### 1-Bolt Parallel

Cast bronze clamp for splicing or connecting two rods, two cables or rod and cable where less contact is acceptable. Stainless steel carriage bolt, nut and washer. 1" x 1-5/8" (2.54cm x 4.13cm); approximately 4 oz. (113 grams).

**BF11A**

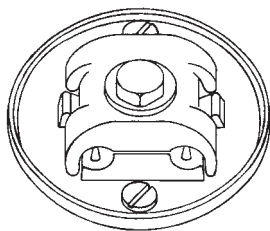
### Aluminum

Approximately 1.3 oz. (37 grams).

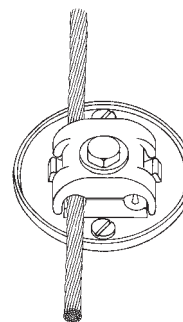


**NOTE:** Copper & bronze fittings are also available tinned.

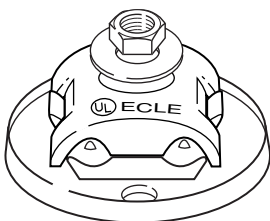
## **Bolt Fittings - BF**

**BF12B****Round Bonding Plate**

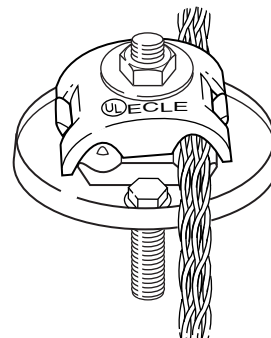
Cast bronze 5.9 square inch bonding plate with 2-way bolt pressure cable holder. Stainless steel bolt and washer. 2-3/4" (7cm ) diameter; approximately 10 oz. (284 grams).

**BF12A****Aluminum**

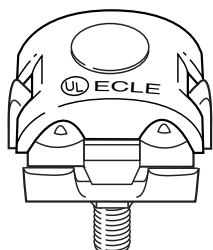
Approximately 3.5 oz. (99 grams).

**BF12B1/2****Round Bonding Plate "Spin On"**

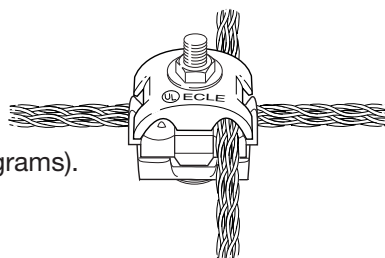
Cast bronze 5.9 (149.9mm) square inch bonding plate. Bottom has 1/2" diameter threaded hole. Two-way bolt pressure cable holder. Stainless steel washer and nut included. 2-3/4" (7cm) diameter; approximately 7.8 oz. (221 grams).

**BF12A1/2****Aluminum**

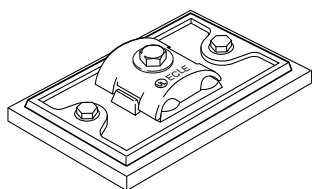
Approximately 1.8 oz. (51 grams).

**BF13B****Cross Run**

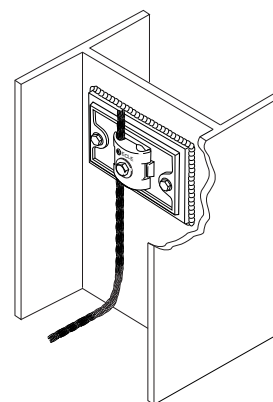
Cast bronze bolt pressure cross run or cross tee clamp. Stainless steel carriage bolt, nut and washer. 1-9/16" x 1-3/4" (4cm x 4.5cm); approximately 8 oz. (227 grams).

**BF13A****Aluminum**

Approximately 3.5 oz. 99 grams).

**BF14B****Steel-Back Bonding Plate**

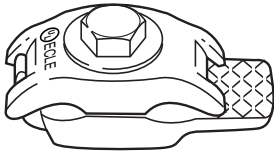
Cast bronze, 8 square inch bonding plate with 2-way bolt pressure cable holder and a 1/4" (.64cm) mild steel back plate. For direct welding to steel. Stainless steel bolt and washer. 4" x 2" (10.2cm x 5.1cm); approximately 23.2 oz. (658 grams).

**BF14A****Aluminum**

Approximately 16.8 oz. (476 grams).

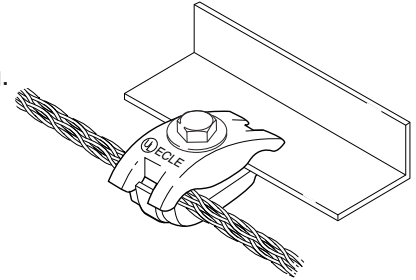
**NOTE:** Copper & bronze fittings are also available tinned.

## **Bolt Fittings - BF**

**BF15B**

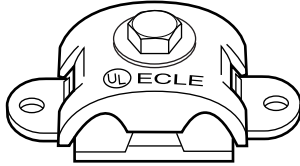
### **Miniature Round to Flat**

Cast bronze miniature cable to flat surface clamp for secondary bonding. Stainless steel bolt and washer. 3/4" x 2-1/4" (1.9cm x 5.7cm); approximately 3.5 oz. (99 grams).

**BF15A**

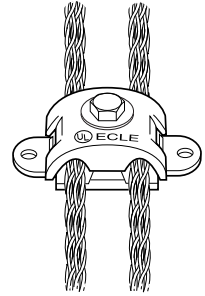
### **Aluminum**

Approximately 1.5 oz. (43 grams).

**BF16B**

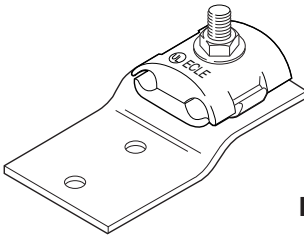
### **3 Square Inch Bonding Plate**

Cast bronze secondary bonding plate. Two-way cable holder with stainless steel bolt and washer. 1-5/8" x 3-1/4" (4.1cm x 8.26cm); approximately 7.1 oz. (201 grams).

**BF16A**

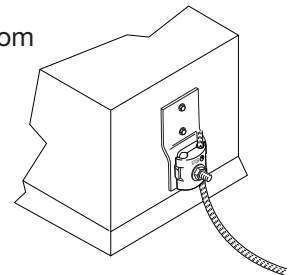
### **Aluminum**

Approximately 2.6 oz. (73.7 grams).

**BF17B**

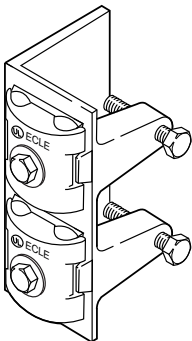
### **Malleable Bonding Lug**

Bronze bonding lug for primary conductors. 2" x 4" (5.1cm x 10.2cm) pressed copper bottom plate - .064 thick. Cast bronze two-way cap. Stainless steel fastener. Approximately 8.9 oz. (251grams).

**BF17A**

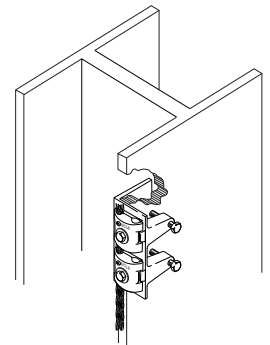
### **Aluminum**

2" x 4" (5.1cm x 10.2cm) pressed aluminum bottom plate - .1026 thick. Approximately 4.3 oz. (121 grams).

**BF18B**

### **8 Square Inch Beam Clamp**

Cast bronze 8 square inch bonding plate with 2 two-way bolt pressure cable holders. For primary bonding to beams and similar flat metal protrusions. 2 stainless steel bolts and washers. 3-1/4" x 4" (82.6mm x 101.6mm); approximately 2 lbs. 2.1 oz. (967 grams).

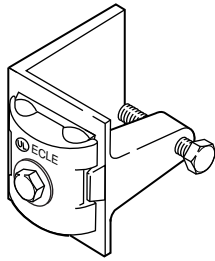
**BF18A**

### **Aluminum**

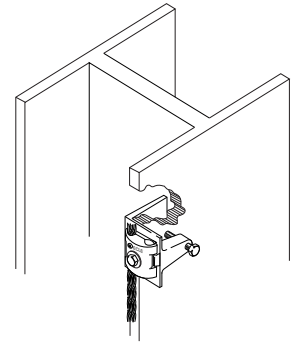
Approximately 13.3 oz. (377 grams).

NOTE: Copper & bronze fittings are also available tinned.

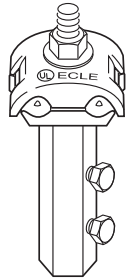


**Bolt Fittings - BF****BF19B****4 Square Inch Beam Clamp**

Cast bronze 4 square inch bonding plate with 1 two-way bolt pressure cable holder. For primary bonding to beams and similar flat metal protrusions. Stainless steel bolt and washer. 3-1/4" x 2" (82.6mm x 50.8mm); approximately 1 lb. 1 oz. (482 grams).

**BF19A****Aluminum**

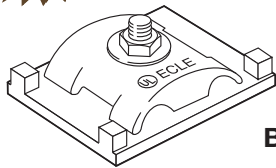
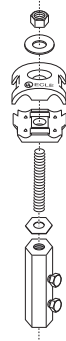
Approximately 6.7 oz. (190 grams).

**BF20B****Cable Splicer**

Cast bronze two-way cable holder with hex brass bolt pressure cable tap. Stainless steel bolts, nut and washer. 3.8" (100mm); approximately 9.6 oz. (272 grams).

**BF20A****Aluminum**

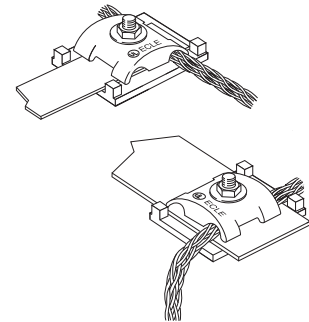
Approximately 5.6 oz. (159 grams).

**BF21B****Cable to Strip Connector**

Cast bronze two-way cable holder with cast flat backed bottom. Can be used to join 1 or 2 inch wide strip to conductor runs. 0.125" thick x 2.6" x 1.8" (6.60cm x 4.57cm). Approximately 6.9 oz. (195 grams).

**BF21A****Aluminum**

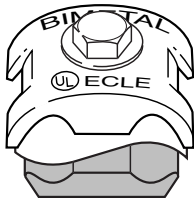
Approximately 2.3 oz. (65 grams).



NOTE: Copper & bronze fittings are also available tinned.

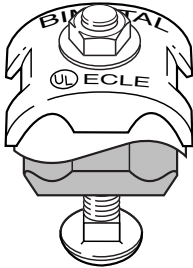
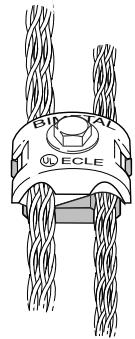
## Bimetallic Fittings - BM

### For Connecting Aluminum and Copper

**BM1**

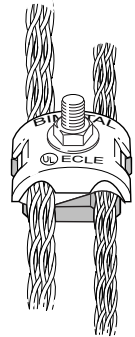
#### Bimetallic Round To Round

Cast bimetallic bolt pressure clamp for joining 2 dissimilar cables. Aluminum two-way cast top. Bronze two-way cast bottom. Stainless steel spacer plate. Stainless steel hex bolt and washer. 1-9/16" x 1-3/4" (39.69mm x 44.45mm); approximately 5.4 oz. (15.3 grams).

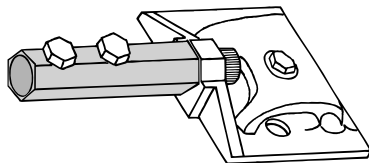
**BM100**

#### Bimetallic Round to Round U.S. Patent No. 424, 924

Cast bimetallic bolt pressure clamp for joining 2 dissimilar cables. Aluminum two-way cast top. Bronze two-way cast bottom. Specifically designed for cable splices on single membrane roofs. Stainless steel spacer plate. Stainless steel carriage bolt, nut and washer. 1-9/16" x 1-3/4" (39.69mm x 44.45mm); approximately 6 oz. (170 grams).



U.S. Patent No. 424, 924

**BM2A**

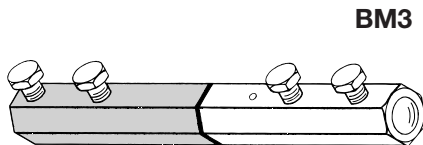
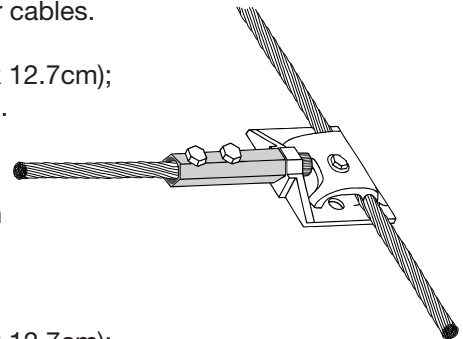
#### Bimetallic Tee Splicer

Bolt pressure aluminum casting with one-way cap and hex brass tap for copper cables. Stainless steel bolts and washer. 2-1/4" x 2" x 5" (5.7cm x 5.1cm x 12.7cm); approximately 10 oz. (284 grams).

**BM2B**

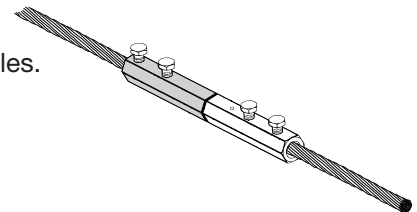
#### Bimetallic Tee Splicer

Bolt pressure bronze casting with one-way cap and hex aluminum tap for aluminum cables. Stainless steel bolts and washer. 2-1/4" x 2" x 5" (5.7cm x 5.1cm x 12.7cm); approximately 10 oz. (284 grams).

**BM3**

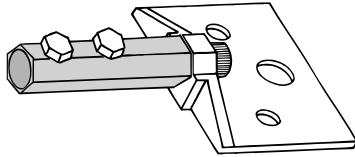
#### Bimetallic 4-Bolt Straight Splicer

For joining aluminum and copper cables. Stainless steel bolts. 3-1/2" x 3/4" (8.9cm x 1.9cm) hex; approximately 6 oz. (170 grams).



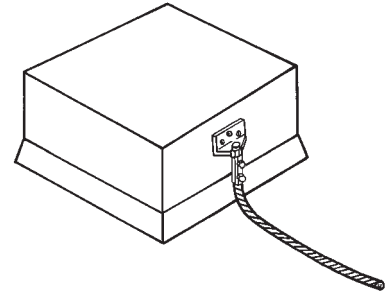
## Bimetallic Fittings - BM

### For Connecting Aluminum and Copper

**BM4A**

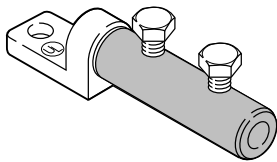
#### Bimetallic Bonding Lug for Primary Conductors

For bonding to aluminum from a copper cable run. Stainless steel bolts. 2-1/4" x 2" x 5" (5.7cm x 5.1cm x 12.7cm); approximately 6.3 oz. (179 grams).

**BM4B**

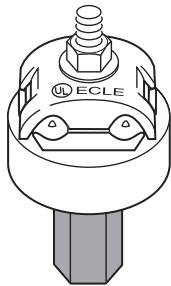
#### Bimetallic Bonding Lug for Primary Conductors

For bonding copper or brass from an aluminum cable run. Stainless steel bolts. 2-1/4" x 2" x 5" (5.7cm x 5.1cm x 12.7cm); approximately 6.2 oz. (176 grams).

**BM5A**

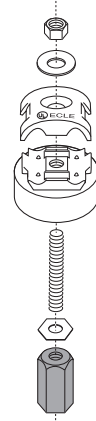
#### Bimetallic Mini Bonding Lug

Secondary cable to flat surface bonding lug. For bonding to aluminum from copper cable run. 3-3/16" x 3/4" (80.96mm x 19.05mm); approximately 3.4 oz. (96 grams).

**BM6A**

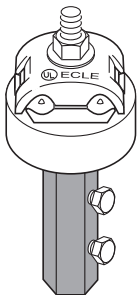
#### Conduit Cap to Threaded Rod

Cast aluminum cap with bolt pressure cable holder machined to fit snugly over 1-1/2" Schedule 40 PVC conduit. Has internally threaded brass hex stock adapter extending below. Joined with stainless steel threaded stub and galvanic barrier. For joining aluminum cable to brass threaded rod. Stainless steel stubs, nut and washer. 2.8" overall height (7cm), 6.4 oz. (181 grams). Available with 3/8", 1/2" or 5/8" internal threads.

**BM6B**

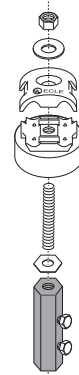
#### Conduit Cap to Threaded Rod

As above for joining copper roof cable to aluminum threaded rod. 11.2 oz. (318 grams). Available with 1/2" or 5/8" internal threads.

**BM7A**

#### Conduit Cap to Cable

Cast aluminum cap with bolt pressure cable holder machined to fit snugly over 1-1/2" Schedule 40 PVC conduit. Has brass hex stock cable holder extending below. Joined by stainless steel threaded stub and galvanic barrier. For joining aluminum roof cable to copper down conductor. 4-1/4" (10.8cm) overall height, 8 oz. (227 grams). Stainless steel stub, bolts, nut and washer.

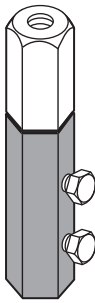
**BM7B**

#### Conduit Cap to Cable

As above for joining copper roof cable to aluminum down conductor. 4 oz. (113 grams).

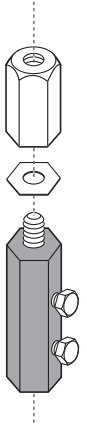
## **Bimetallic Fittings - BM**

### **For Connecting Aluminum and Copper**

**BM8A**

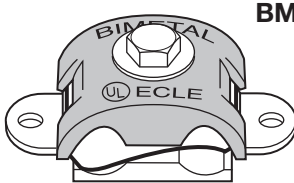
#### **Rod to Cable Straight Splicer**

For aluminum threaded rod or air terminal to copper cable connection. Fabricated from 3/4" brass and aluminum hex stock sections. Aluminum end threaded internally for connecting to aluminum threaded rod or air terminal. Brass end has two stainless steel bolts to anchor copper cable. Joined with stainless steel threaded stub and galvanic barrier. Specify 1/2" or 5/8" thread diameter for aluminum end. 3.8" (9.7cm) overall height. Approximately 4.8 oz. (136 grams).

**BM8B**

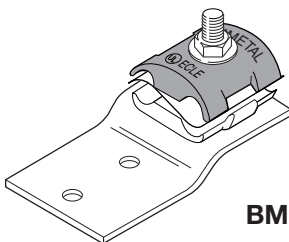
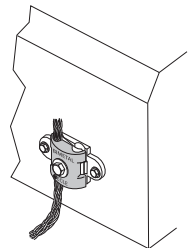
#### **Rod to Cable Straight Splicer**

As above for copper threaded rod or air terminal to aluminum cable. Specify 3/8", 1/2" or 5/8" thread diameter for brass end. 4 oz. (113 grams).

**BM16**

#### **Bimetallic 3 Square Inch Bonding Plate**

Cast bimetallic bolt pressure bonding plate for joining copper conductor to non-compatible surfaces. Features aluminum bottom and bronze two-way cable holder top. Stainless steel spacer shim, bolt and washer. 3-1/4" x 1-5/8" (8.26cm x 4.1cm). Approximately 4 oz. (113 grams).

**BM17A**

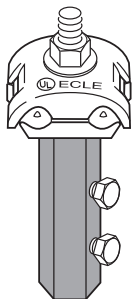
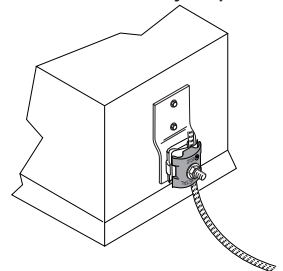
#### **Bimetallic Bonding Lug**

Bolt pressure bimetallic bonding lug for primary conductors. For bonding to aluminum from a copper cable run. 2" x 4" (5. cm x 10.2 cm) pressed aluminum bottom plate - .1026 thick. Cast bronze two-way top. Stainless steel separator - .024 thick x 1-3/4" x 2" (4.45 cm x 5.1 cm). Stainless steel fasteners. Approximately 6.8 oz. (192 grams).

**BM17B**

#### **Bimetallic Bonding Lug**

As above for bonding to bronze or copper from an aluminum cable run. Approximately 7.4 oz. (208 grams).

**BM20A**

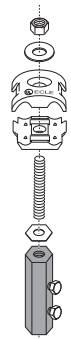
#### **Cable Splicer**

For connecting aluminum cable run to copper cable tap. Cast aluminum bolt pressure two-way cable holder with hex brass cable holder below. Stainless steel threaded stub, galvanic barrier, nut and washer. 4.2" (10.7cm) overall height, 7.2 oz. (204 grams).

**BM20B**

#### **Cable Splicer**

As above for joining copper cable run to aluminum cable tap. 8 oz. (227 grams).



## Bimetallic Fittings - BM

### For Connecting Aluminum and Copper



#### BMRC

#### Bimetallic Rod Coupling

For threaded rod to threaded rod or air terminal connection. Fabricated from 3/4" brass and aluminum hex stock. Galvanic barrier. Specify 3/8, 1/2 or 5/8 thread diameter for each end. 2.5" (6.4cm) overall height, 3.2 oz. (91 grams).

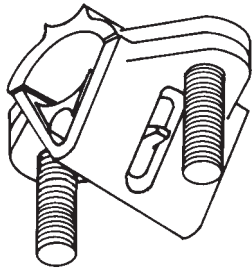


## Pipe Clamps - PC

#### PC1T

#### Small Pipe Clamp

Tinned cast bronze pipe clamp. Fits up to 1-1/4" (3.2cm) O.D. pipe. Two 5/16" x 1-1/4" stainless steel bolts. 1-5/8" x 2-5/8" (4.1cm x 6.7cm); approximately 8 oz. (227 grams).



#### PC1B

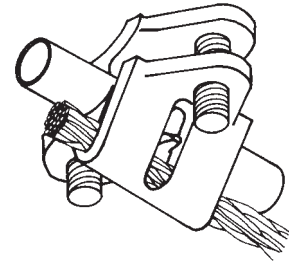
#### Bronze

Approximately 8 oz. (227 grams).

#### PC1A

#### Aluminum

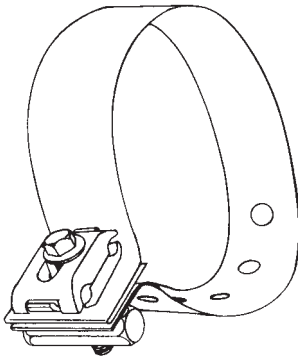
Approximately 3.3 oz. (94 grams).



#### PC6T

#### Strap-Type Pipe Clamp

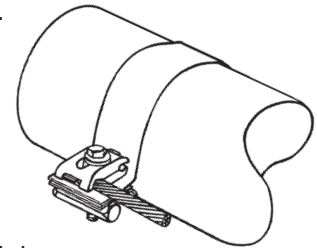
Adjustable strap can be used to bond to pipes with 4" to 6" (10.2cm to 15.2cm) O.D. Tinned strap is 2" wide with cast bronze two-way cable clamp and brass barrel nut for uniform adjustment of the strap.



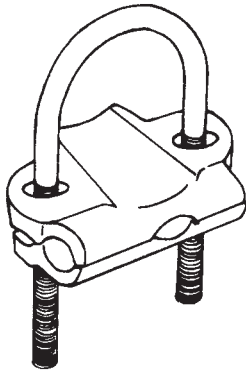
#### PC6A

#### Aluminum

Strap-Type Pipe Clamps are also available for pipes with larger than 6" outside diameter. Call the factory with your specifications.



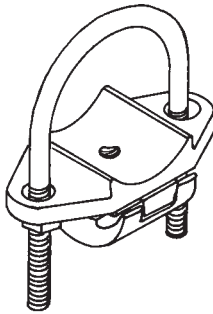
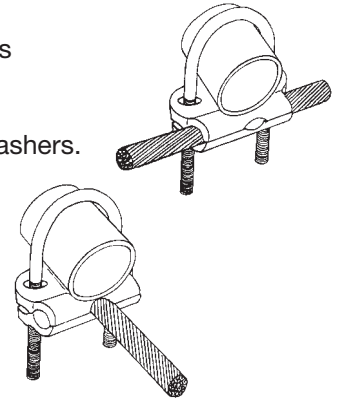
## U-Bolt Pipe Clamps - PC



**PC1UB Smallest U-Bolt Clamp**  
Cast bronze pipe clamp. Fits rods or pipes with 1/2" to 1-1/4" (1.3cm to 3.2cm) O.D. Has 2-way bolt pressure cable holder. 5/16-18 stainless steel U-bolt, nuts and washers. 2-1/2" x 3-1/2" (6.35cm x 8.9cm); approximately 9 oz. (255 grams).

**PC1UT Tinned**  
Approximately 9 oz. (255 grams).

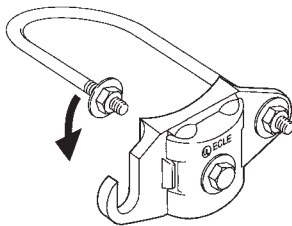
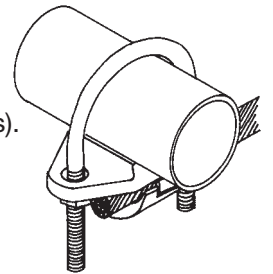
**PC1UA Aluminum**  
Approximately 5 oz. (142 grams).



**PC2UB 2" U-Bolt Clamp**  
Cast bronze pipe clamp. Fits up to 2" (5.1cm) O.D. pipe. Has 2-way bolt pressure cable holder with cover that can be turned 90 degrees. 5/16-18 stainless steel U-bolt, nuts and washers. Approximately 8.5 oz. (241 grams).

**PC2UT Tinned**  
Approximately 8.5 oz. (241 grams).

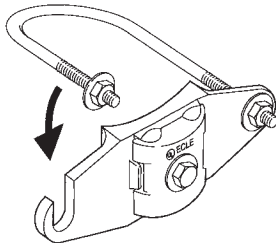
**PC2UA Aluminum**  
Approximately 4.2 oz. (119 grams).



**PC3UB 3" U-Bolt Clamp**  
Cast bronze pipe clamp. Fits up to 3" (7.6cm) O.D. pipe. Has 2-way bolt pressure cable holder with cover that can be turned 90 degrees. 5/16-18 stainless steel U-bolt, nuts and washers. Approximately 13 oz. (369 grams).

**PC3UT Tinned**  
Approximately 13 oz. (369 grams).

**PC3UA Aluminum**  
Approximately 6 oz. (170 grams).



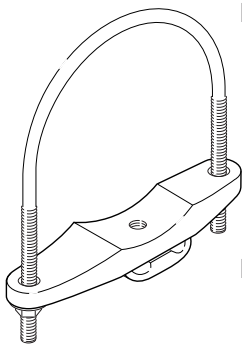
**PC4UB 4" U-Bolt Clamp**  
Cast bronze pipe clamp. Fits up to 4-1/2" (114.3mm) O.D. pipe. Has 2-way bolt pressure cable holder with cover that can be turned 90 degrees. 5/16-18 stainless steel U-bolt, nuts and washers. Approximately 26.4 oz. (748 grams).

**PC4UT Tinned**  
Approximately 26.4 oz. (748 grams).

**PC4UA Aluminum**  
Approximately 11.8 oz. (335 grams).

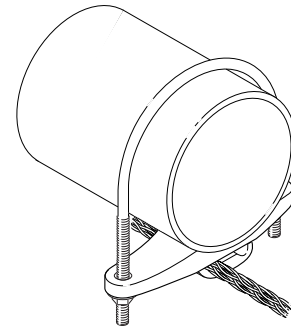


## U-Bolt Pipe Clamps - PC

**PC6UB**

### **6" U-Bolt Clamp**

Cast bronze pipe clamp. Fits up to 6.75" (171.45mm) O.D. pipe. Two-way bolt pressure cable holder with cover that can be turned 90 degrees. Stainless steel U-bolt, nuts and washers. Approximately 2 lbs. 5.4 oz. (1060 grams).

**PC6UT**

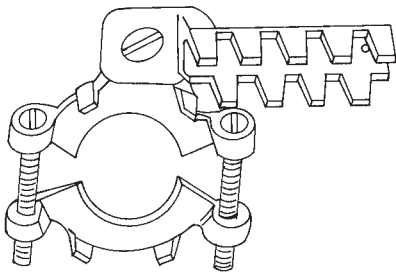
### **Tinned**

Approximately 2 lbs. 5.4 oz. (1060 grams).

**PC6UA**

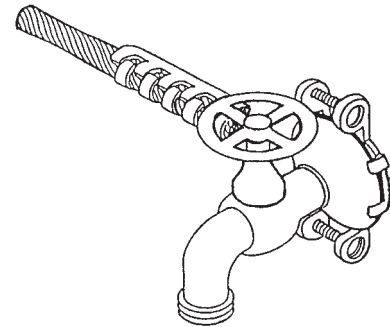
### **Aluminum**

Approximately 14 oz. (397 grams).



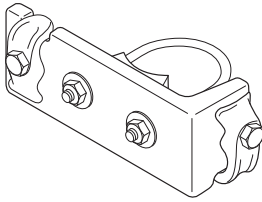
## Sillcock Flange Connector

Tinned cast bronze water pipe bonding clamp for use behind flange of sillcock. 5-1/2" x 2-3/4" (139.7mm x 69.85mm); approximately 10.2 oz. (289 grams).



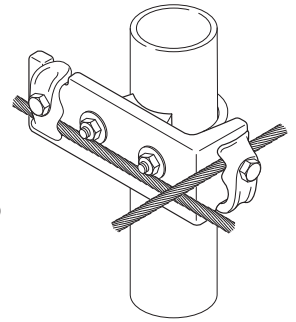
## **Pedestal Clamps - CP**

### **CP1T**

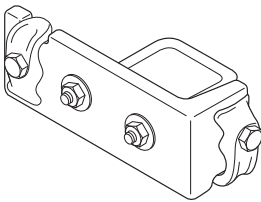


### **Round Computer Pedestal Grounding Clamp**

Tin plated cast bronze clamp features two off-set bolt pressure cable holders to permit perpendicular conductors to be coursed without kinks and bends. For use on Round pedestal diameters ranging from 1/2" to 1-1/8". Accommodates wire sizes from #8 to 4/0 AWG. Stainless steel U-bolt, hex bolt, nuts and washers, 4-3/8" x 1-1/4" x 1-1/2". Approximately 12.2 oz. (346 grams).

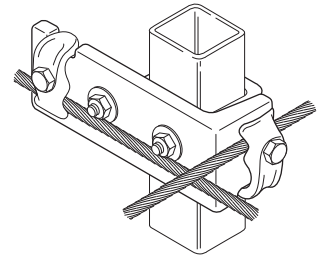


### **CP1TM**

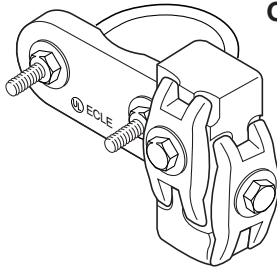


### **Square Computer Pedestal Grounding Clamp**

Tin plated cast bronze clamp for use on square pedestals measuring up to 1-1/8". Accommodated wire sizes ranging from #8 to 4/0 AWG. Stainless steel U-bolt, hex bolt and washers, 4-3/8" x 1-1/4" x 1-1/2". Approximately 12.2 oz. (346 grams).

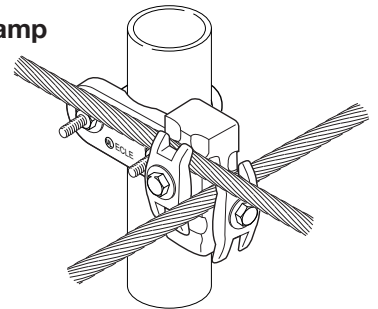


### **CP3B**

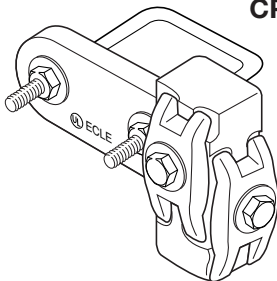


### **Heavy Duty Round Pedestal Grounding Clamp**

Cast bronze pedestal clamp. Fits up to 1-1/4" diameter round computer pedestals. Two bolt pressure cable holders can accommodate wire sizes from #6 to 2/0. Stainless steel U-bolt, straight bolts, nuts and washers. Approximately 17.4 oz. (494 grams).

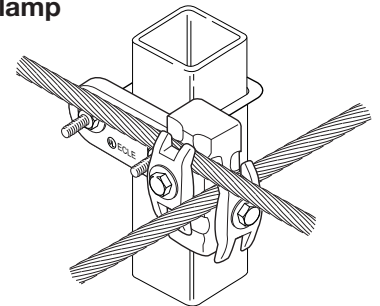


### **CP3BM**

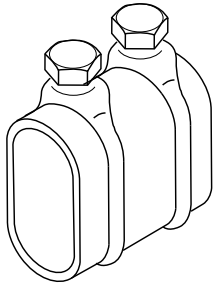


### **Heavy Duty Square Pedestal Grounding Clamp**

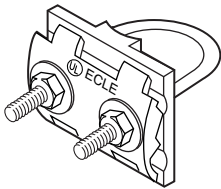
Cast bronze pedestal clamp. Fits up to 1-1/2" square computer pedestals. Two bolt pressure cable holders can accommodate wire sizes from #6 to 2/0. Stainless steel U-bolt, straight bolts, nuts and washers. Approximately 17.4 oz. (494 grams).



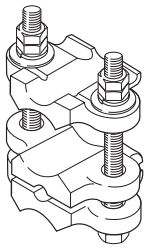
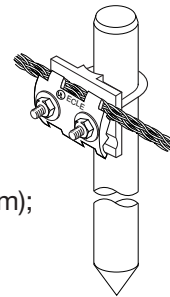
### Ground Rod Clamp - GC



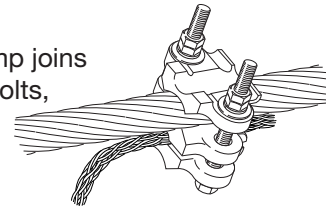
- GC1/2** Cast bronze, cable to 1/2" (1.27cm) ground rod clamp. Has two stainless steel bolts 3/8" – 16 x 1-1/4". Approximately 8.75 oz. (248 grams).
- GC5/8** Cast bronze, cable to 5/8" (1.59cm) ground rod clamp. Has two stainless steel bolts 3/8" – 16 x 1-1/4". Approximately 9.3 oz. (264 grams).
- GC3/4** Cast bronze, cable to 3/4" (1.91cm) ground rod clamp. Has two stainless steel bolts 3/8" – 16 x 1-1/4". Approximately 9 oz. (255 grams).



- GCUB U-Bolt Ground Rod Clamp**  
Cast bronze cable to ground rod clamp. Designed to join rods up to 7/8" OD and one or two cables with a cast bronze parallel cable holder. Stainless steel u-bolt, nuts and washers. 1-7/8" x 2-3/6" (47.6mm x 55.6mm); approximately 8.8 oz. (250 grams).



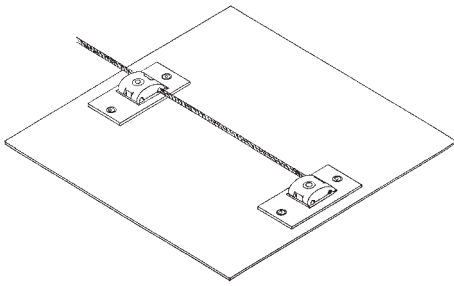
- GW1T Tinned Guy Wire Clamp**  
Tinned cast bronze clamp. Versatile clamp joins cables of various sizes. Stainless steel bolts, nuts and washers. 2-3/8" x 1-3/4" (60.33mm x 44.45mm); approximately 16 oz. (454 grams).



### Ground Rod Section Coupling - GRC



- GRC1/2** Silicon bronze coupling for 1/2" (1.27cm) sectional ground rod. Approximately 2.65 oz. (75 grams).
- GRC5/8** Silicon bronze coupling for 5/8" (1.59cm) sectional ground rod. Approximately 4.5 oz. (128 grams).
- GRC3/4** Silicon bronze coupling for 3/4" (1.91cm) sectional ground rod. Approximately 4.8 oz. (136 grams).



### Ground Plate - GP

Copper ground plate with two bolt pressure cable holders.

<b>GP1</b>	18" x 18" x .032	(45.7cm x 45.7cm x .0813cm)
<b>GP2</b>	18" x 24" x .032	(45.7cm x 61cm x .0813cm)
<b>GP3</b>	18" x 36" x .032	(45.7cm x 91.4cm x .0813cm)

Call factory for information on other sizes.

### Ground Rods - GR

UL listed copper clad steel ground rods.

<b>GR1X</b>	1/2" x 8'	(1.27cm x 2.44m)
<b>GR1</b>	1/2" x 9'	(1.27cm x 2.74m)
<b>GR2</b>	1/2" x 10'	(1.27cm x 3.05m)
<b>GR2S</b>	1/2" x 10' Sectional	(1.27cm x 3.05m)
<b>GR3X</b>	5/8" x 8'	(1.59cm x 2.44m)
<b>GR3</b>	5/8" x 10'	(1.59cm x 3.05m)
<b>GR3S</b>	5/8" x 10' Sectional	(1.59cm x 3.05m)
<b>GR4</b>	3/4" x 10'	(1.91cm x 3.05m)
<b>GR4S</b>	3/4" x 10' Sectional	(1.91cm x 3.05m)

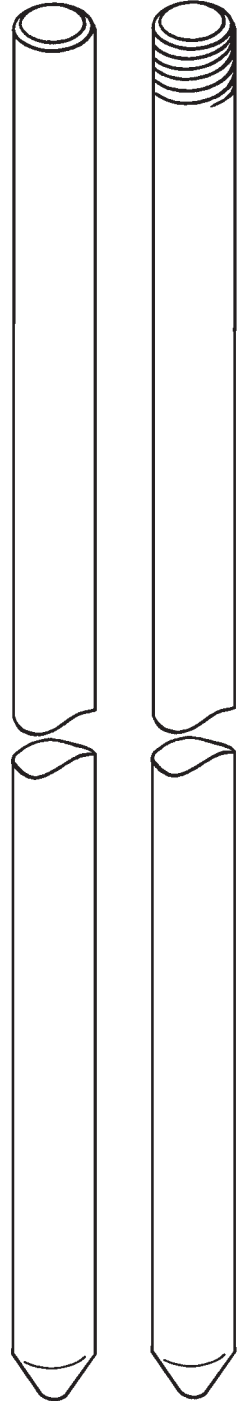
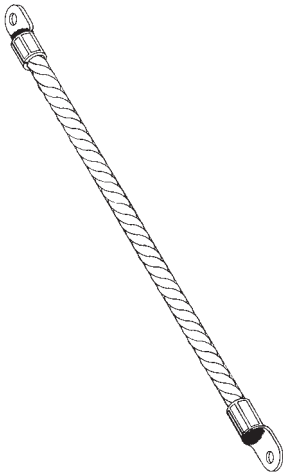
Call factory for information on other available ground rod sizes.

A variety of stainless steel ground rods are also available.

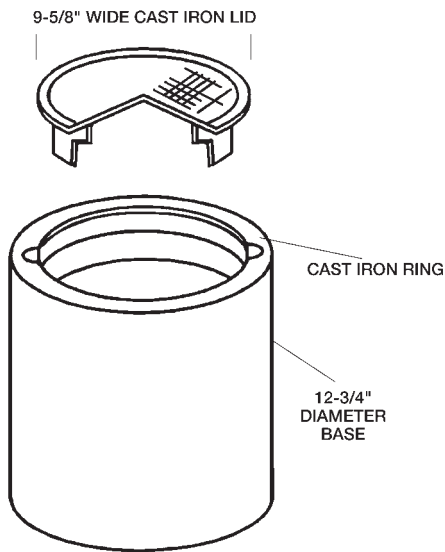
### Ground Strap

Flexible, tin-coated copper secondary bonding cable. Ideal for bonding doors, gates and machinery. Each strap has a tinned copper lug with a #10 eye on each end. Strap is a #6 AWG stranded wire. UL listed.

<b>Ground Strap 11</b>	11" long	27.9cm
<b>Ground Strap 18</b>	18" long	45.7cm



## Ground Test Wells



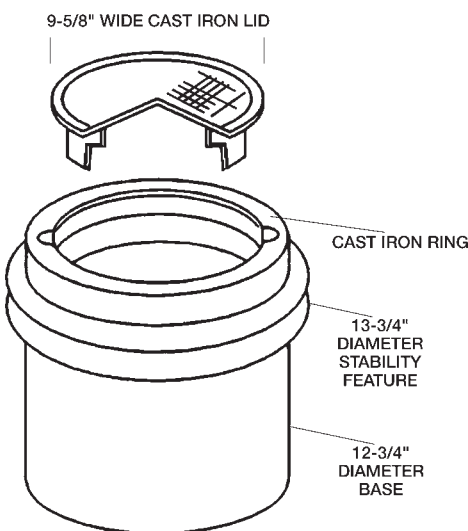
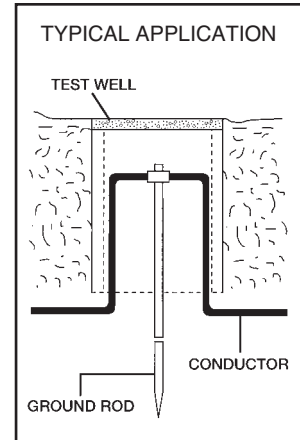
### Heavy Duty Ground Test Well

#### 12" Length

3100	PVC Schedule 80	12 3/4" x 12"
3102	3/8" Steel	12 3/4" x 12"

#### 18" Length

3120	PVC Schedule 80	12 3/4" x 18"
3122	3/8" Steel	12 3/4" x 18"



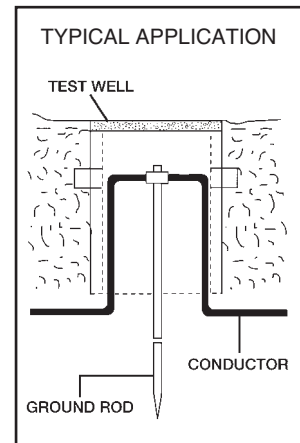
### Heavy Duty High Traffic Area Ground Test Well

#### 12" Length

3110	PVC Schedule 80	13 3/4" x 12"
3112	3/8" Steel	13 3/4" x 12"
3114	Concrete	13 3/4" x 12"

#### 18" Length

3130	PVC Schedule 80	13 3/4" x 18"
3132	3/8" Steel	13 3/4" x 18"

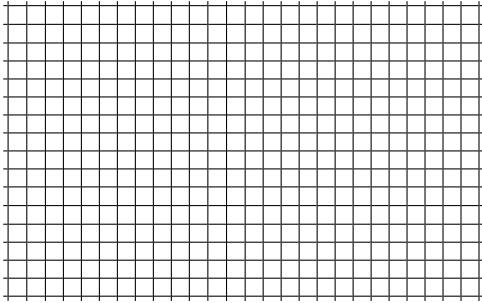


Ground Test Wells are also available in 24" and 36" lengths. All Ground Test Wells incorporate a heavy duty cast iron cover. Additional sizes and configurations are available. Call for more information.

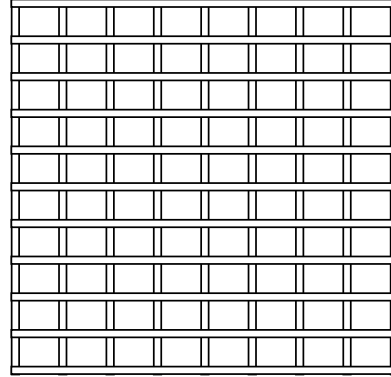
## Specialty Grounding Products

A wide variety of specialty grounding products are available. Including:

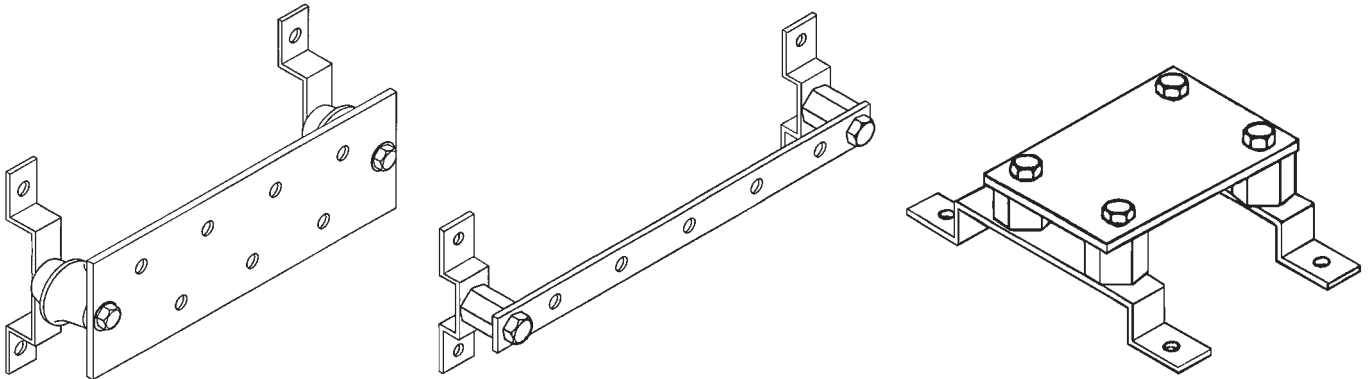
### **Prefabricated Wire Mesh**



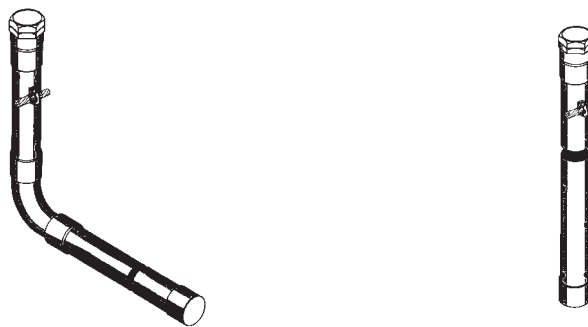
### **Signal Reference Grounding Grids**



### **Ground Bars**



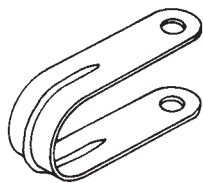
### **Chemical Ground Rods**



Special sizes, configurations, platings and options are available.  
For more information on any of these specialty grounding items,  
please call the factory.



## Fastener Loops - FL

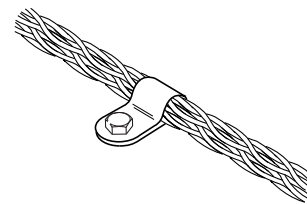


**FL1C\*** 1-Nail stamped copper loop.

**FL1T\*** 1-Nail stamped tinned copper loop.

**FL1A\*** 1-Nail stamped aluminum loop.

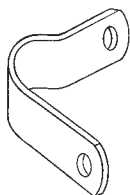
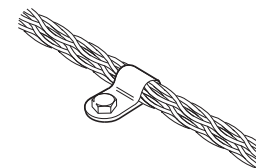
\* Use with Class I conductors.



**FL51C\*** 1/4" hole, small stamped copper loop.

**FL51C\*** 1/4" hole, small stamped tinned copper loop.

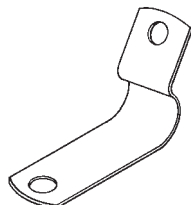
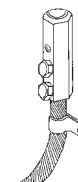
\* Use with Class I conductors.



**FL2C\*** 1/4" hole, medium stamped copper loop.

**FL2T\*** 1/4" hole, medium stamped tinned copper loop.

\* Use with Class I conductors.

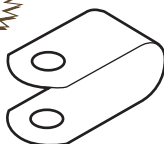
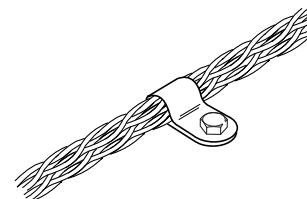


**FL3C†** 1/4" hole, largest stamped copper loop.

**FL3T†** 1/4" hole, largest stamped tinned copper loop.

**FL3A†** 1/4" hole, largest stamped aluminum loop.

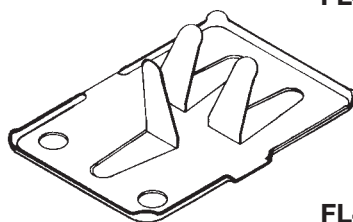
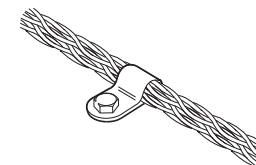
† Use with Class II conductors.



**FL300C†** 1/4" hole, large stamped tinned copper loop.

**FL300A†** 1/4" hole, large stamped aluminum loop.

† Use with Class II conductors.

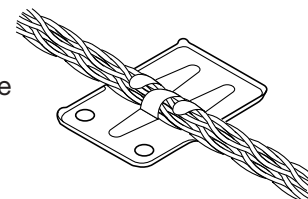


### **FL4C Stamped Adhesive Crimp Copper Loop**

For use on built-up, single membrane or other flat roof surfaces where mechanical penetrations must be avoided. Use with adhesives compatible to roof surface. 2-1/4" x 3-1/2" (5.7cm x 8.9cm); approximately 1.4 oz. (40 grams).

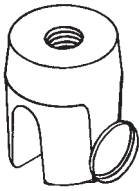
### **FL4A Stamped Adhesive Crimp Aluminum Loop**

As above, but stamped aluminum. Approximately .8 oz. (23 grams).



**NOTE:** Copper & bronze fittings are also available tinned.

## Fastener Loops - FL



**FL5B**

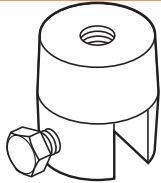
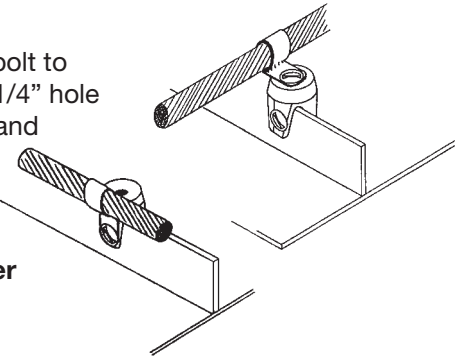
### Standing Seam Bronze Fastener

Cast bronze fastener with one 1/4" bolt to anchor to the standing seam and a 1/4" hole on top. Comes with one FL3C loop and extra bolt for top mounting of loop. 3/4" diameter x 1" (1.9cm x 2.5cm); approximately 3.3 oz. (94 grams).

**FL5A**

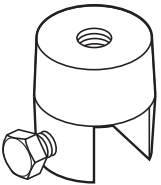
### Standing Seam Aluminum Fastener

As above, but cast aluminum. Approximately 1.2 oz. (34 grams).



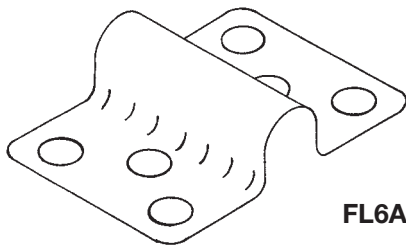
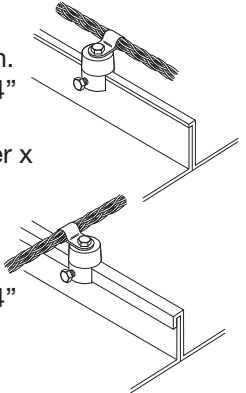
### FL5A 5/16 5/16 Standing Seam Aluminum Fastener

Cast aluminum fastener for seams up to 5/16" in width. Comes with one 1/4" bolt to anchor to seam and a 1/4" threaded hole on top. Comes with one FL3A loop and one 1/4-20x5/8 bolt for top mounting loop. 1" diameter x 1" (2.5cm x 2.5cm); approximately 1.6 oz.



### FL5A 1/2 1/2 Standing Seam Aluminum Fastener

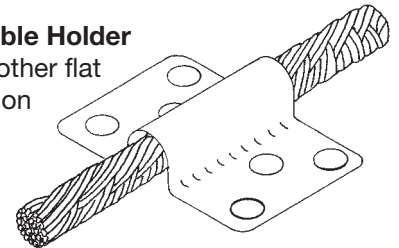
Cast aluminum fastener for seams up to 1/2" in width. Comes with one 1/4" bolt to anchor to seam and a 1/4" threaded hole on top. Comes with one FL3A loop and one 1/4-20x5/8 bolt for top mounting loop. 1" diameter x 1" (2.5cm x 2.5cm); approximately 1.6 oz.



**FL6C**

### Layover Adhesive Stamped Copper Cable Holder

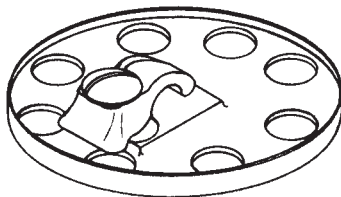
For use on built-up, single membrane or other flat roof surfaces where mechanical penetration must be avoided. Use with adhesives compatible to roof surface. 3-1/2" x 2" (8.9cm x 5.1cm); approximately 1.1 oz. (31 grams).



**FL6A**

### Layover Adhesive Stamped Aluminum Cable Holder

As above, but stamped aluminum. Approximately .5 oz. (14 grams).



**FL7B**

### Heavy Duty Cable Holder

A cast bronze, bolt-type adhesive fastener for securing cable. Suitable for use on built-up, single membrane or other roof surfaces where mechanical penetration must be avoided. Use with adhesives compatible to roof surfaces. 3-1/8" (7.9cm) diameter casting with stainless steel bolt and cast clip. Approximately 4.8 oz. (113 grams).

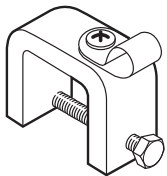
**FL7A**

### Aluminum

Approximately 1.7 oz. (48 grams).

**NOTE:** Copper & bronze fittings are also available tinned.

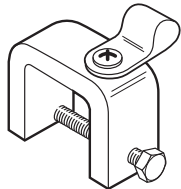
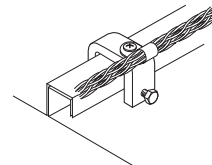
## Fasteners



**FL9A**

### **Aluminum 1 inch Standing Seam Fastener**

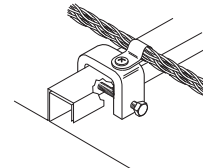
Stainless steel phillips head set screws, aluminum fastener loop for securing cable. Approximately 1.5" x 1.5" x .75" (38mm x 38mm x 19mm).



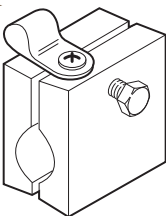
**FL9AX**

### **Custom Standing Seam Fastener**

As above, manufactured to custom widths.



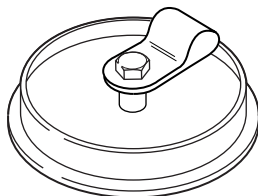
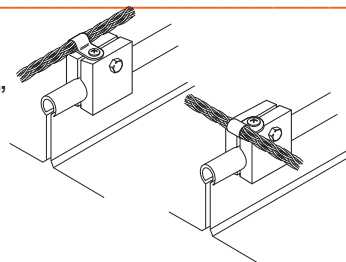
Call the factory with your requirements.



**FL10A**

### **Zip-Rib Standing Seam Fastener**

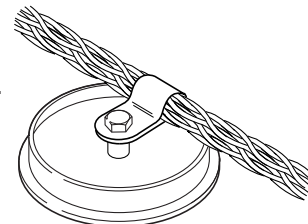
Cast aluminum cable holder for use on "zip-rib" style round top standing seam roofs. Features FL3A fastener loop and stainless steel bolt. 1.15" thick x 1.8" x 1.6" (4.5cm x 2.9cm). Approximately 4 oz. (113 grams).



**FL19B**

### **Ballast Pan Cable Fastener**

A cast bronze, pan-type cable holder for use on flat roofs. Pan can be filled with concrete, gravel or stones to hold it in place. Comes with FL3C fastener loop and stainless steel bolt. 3-7/8" (9.8cm) diameter; approximately 10.2 oz. (289 grams).



**FL19A**

### **Aluminum**

Approximately 3.4 oz. (96 grams).



**TD**

## Tree Drive

### **Cast Soft Bronze Tree Drive**

3-1/4" (8.25cm); approximately 1.1 oz. (31 grams).

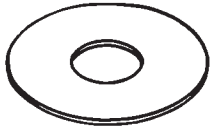
## Stainless Steel Fasteners

### Nuts



1/4-20	Hex Finish Nut
5/16-18	Hex Finish Nut
3/8-16	Hex Finish Nut
1/2-13	Hex Jam Nut
5/8-11	Hex Jam Nut
1/2-13	Acorn Cap Nut

### Washers



1/4"	Flat Washer	1/4"	Lock Washer
5/16"	Flat Washer	5/16"	Lock Washer
3/8"	Flat Washer	3/8"	Lock Washer
1/2"	Flat Washer	1/2"	Lock Washer
1/2"	Fender Washer 2" OD		

### Hex Head Bolts



1/4-20 x 1/2"	Hex Head
1/4-20 x 5/8"	Hex Head
1/4-20 x 1-1/4"	Hex Head
5/16-18 x 3/4"	Hex Head
5/16-18 x 7/8"	Hex Head
5/16-18 x 1-1/4"	Hex Head
3/8-16 x 1"	Hex Head
3/8-16 x 1-1/4"	Hex Head

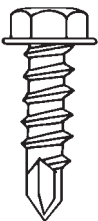
### Hex Washer Head Self-Tapping Screws



#10 x 3/4"	Magnetic Type 'A'
#10 x 1"	Magnetic Type 'A'
#10 x 1-1/2"	Magnetic Type 'A'



### Hex Washer Head Self-Drilling Screws



#10 x 5/8"	Magnetic Tech
#10 x 3/4"	Magnetic Tech
#10 x 1-1/2"	Magnetic Tech
#12 x 3/4"	Magnetic Tech
#12 x 1-1/4"	Magnetic Tech 5

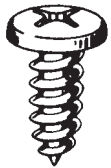
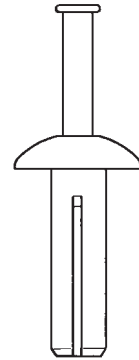


## Stainless Steel Fasteners



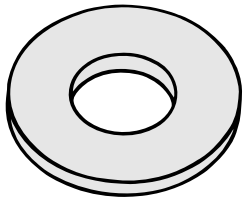
### Nails and Nail-Ins

4D Nail	1-1/2" annular ring, threaded stainless steel nail
6D Nail	2" annular ring, threaded stainless steel nail
10D Nail	3" annular ring, threaded stainless steel nail
1/4" Nail-In	Rawl Zamac, mushroom head nail-in stainless 1" pin



### Sheet Metal Screws

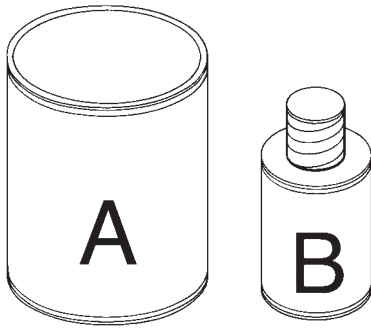
#10 x 5/8"	Phillip Pan Screw
#12 x 3/4"	Phillip Pan Screw
#12 x 1"	Phillip Pan Screw
#12 x 1-1/4"	Phillip Pan Screw



### Rubber (EPDM) Washers

Available 1/8", 3/16", 3/8", 1/2" and 5/8".  
EPDM washers are 3/32" thick.

## Sealants



### **Two-Part Pourable Sealer**

1-gallon Part A, 1-quart Part B

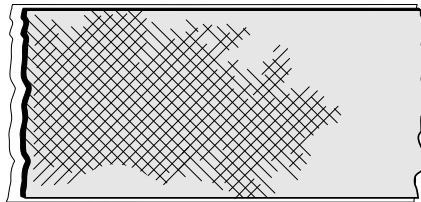
Fast-drying adhesive cement for adhering to rubber membrane roofing.



### **Rubber Lap Sealer**

Black sealant - 11 fluid ounce tube

Compatible with rubber membrane roofing materials.



### **Rubber Flashing**

Pressure sensitive, 6"-wide uncured rubber flashing with adhesive backing. (6"W x 100'L roll. Approximately .075 thick.)

## **Adhesive/Sealant**



### **Heavy Duty Sealant**

High performance sealant adheres to a variety of building substrates.

**M-1** by Chemlink in 10.1 fluid ounce tube (299 ml)

Black

Grey

White

**Clear** by Chemlink in 10.1 fluid ounce tube (299 ml)

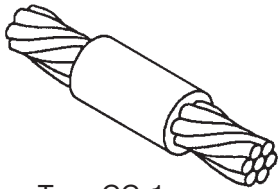
Available by the tube and in 24 tube cases.



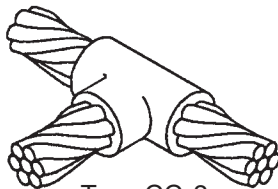
## Exothermic Connections

We stock a complete line of weld metals, molds and accessories.  
Call for a complete catalog of exothermic weld equipment.

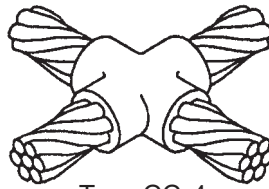
### Cable To Cable



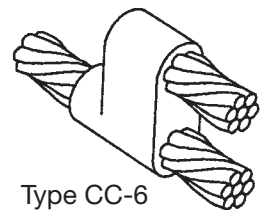
Type CC-1



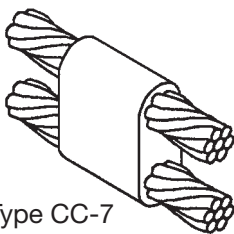
Type CC-2



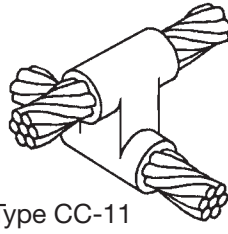
Type CC-4



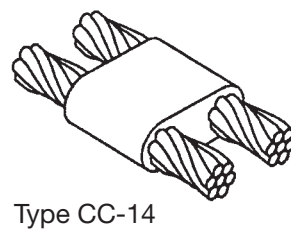
Type CC-6



Type CC-7

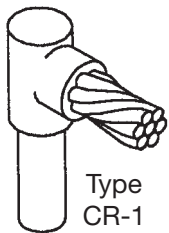


Type CC-11

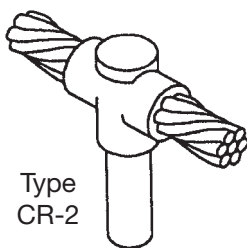


Type CC-14

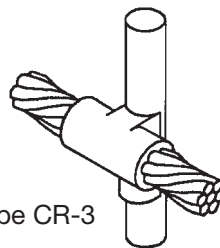
### Cable To Ground Rod



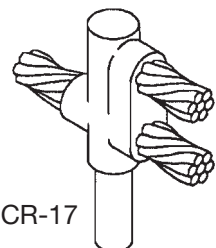
Type  
CR-1



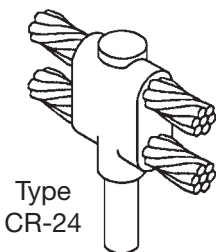
Type  
CR-2



Type CR-3



Type CR-17



Type  
CR-24



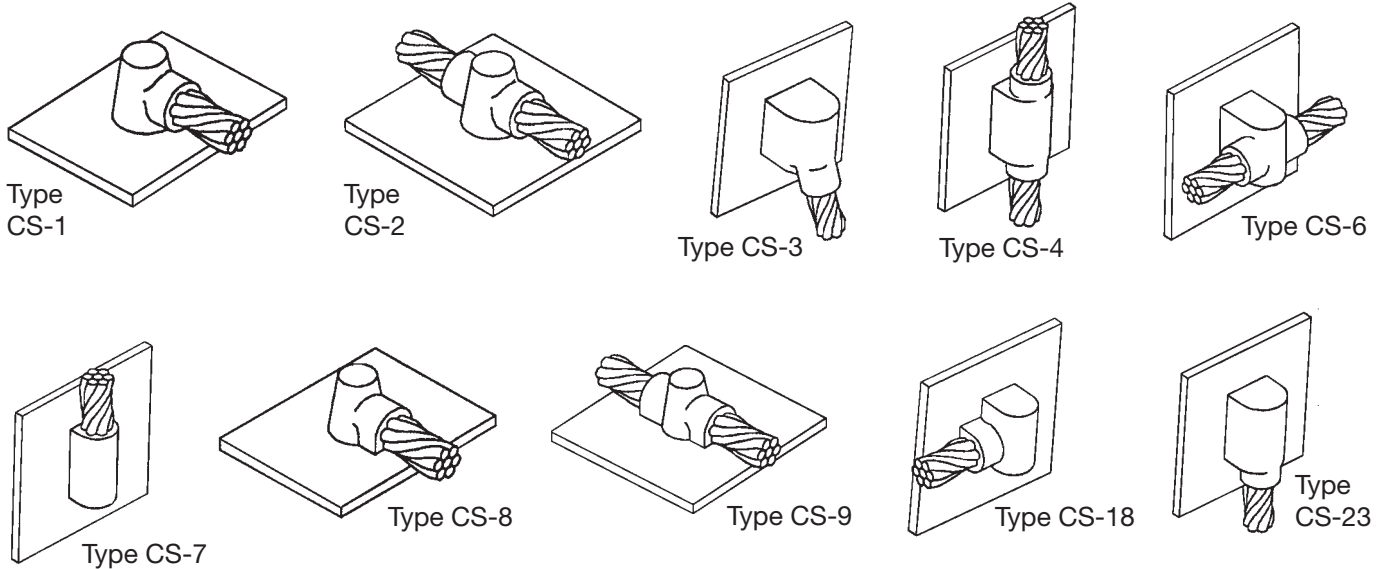
Type RR-1

**When ordering exothermic molds,  
be sure to specify the size of the  
conductor(s) and/or rod(s)  
you will be using.**

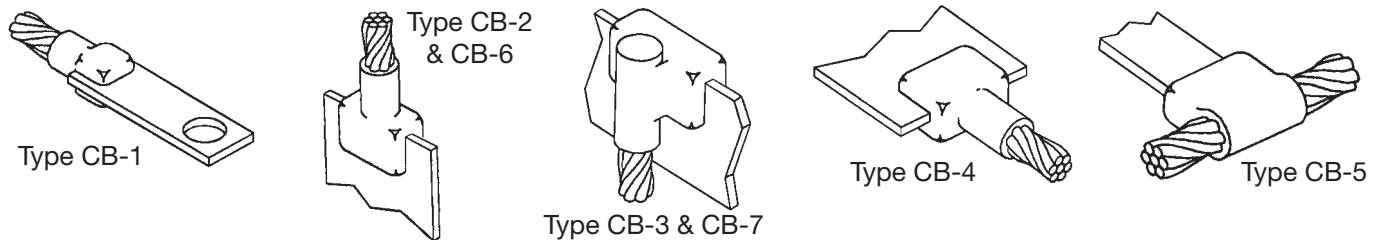
## Exothermic Connections

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Call for a complete catalog of exothermic weld equipment.

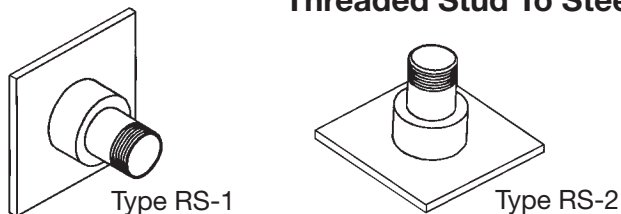
### Cable To Surface



### Cable To Lug Or Bus



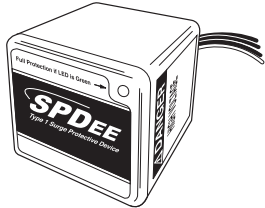
### Threaded Stud To Steel Surface



When ordering exothermic molds, be sure to specify the size of the conductor(s) and/or rod(s) you will be using.

## Single Phase Surge Protection Devices

ECLE stocks a variety of Surge Protection Devices, including products that meet the latest UL 96A Master Label Certification requirements. Call the factory for assistance with product selection and to obtain cut sheets.

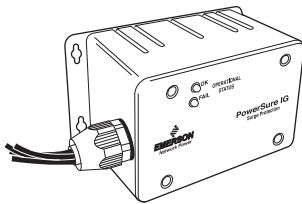


**APT S50A120V2P**

APT SPDee 120/240 Single Phase 3 wire surge protection device. UL 1449 Rev 3 listed

**APT S50A120V2PN**

As above with additional neutral ground protection.

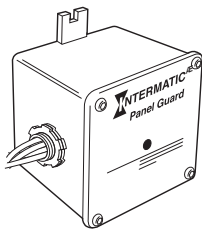


**EMR IG120S101R-WL**

Emerson 120/240 Single Phase four wire surge protection device. UL 1449 Rev 3 listed

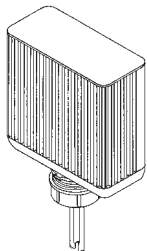
**DTK 120/240SA**

Ditek 120/240 Single Phase four wire surge protection device. UL 1449 Rev 3 listed



**IG1240RC3**

Intermatic 120/240 Single Phase four wire surge protection device. Meets UL 1449 Rev 3 requirements. NOT UL LISTED



**DTK 120/240CM+**

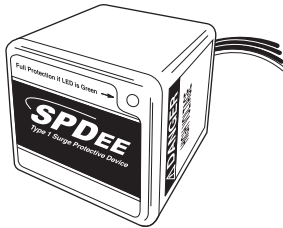
Ditek 120/240 Single Phase surge protection device. UL listed but NOT ELIGIBLE for Master Label Certification

## Three Phase Surge Protection Devices

ECLE stocks a variety of Surge Protection Devices, including products that meet the latest UL 96A Master Label Certification requirements. Call the factory for assistance with product selection and to obtain cut sheets.

### APT SPDee Line - UL Listed

Meets UL 1449 Rev 3 requirements for UL96A Master Label Certification



**APT S50A120V3Y** 120V 208 Three Pole Wye  
**APT S50A120V3YN** As above with neutral ground protection

**APT S50A240V3D** 240V Three Pole Delta

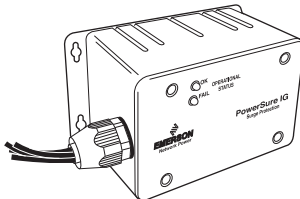
**APT S50A277V3Y** 277V 480 Three Pole Wye  
**APT S50A277V3YN** As above with neutral ground protection

**APT S50480V3D** 480V Three Pole Delta

Note: APT SPDee units are for use on panels up to 1200 amps. For larger panels request pricing for APT XDS, XCS and XAS product lines.

### Emerson IG Series - UL Listed

Meets UL 1449 Rev 3 requirements for UL96A Master Label Certification



**EMR IG120Y111R-WL** 120/208 VAC Three Phase Wye

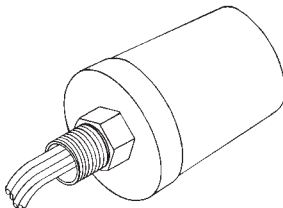
**EMR IG240D110R-WL** 240VAC Three Phase Delta

**EMR IG277Y111R-WL** 277/480VAC Three Phase Wye

**EMR IG480D110R-WL** 480VAC Three Phase Delta

Note: Emerson IG series can be used for up to 2500 amp panels. For larger panels request pricing for IH product line.

### Intermatic AG Series

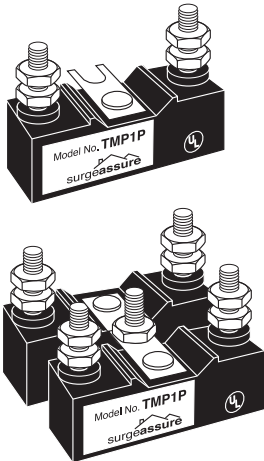


**AG6503C3** 347 or 600 VAC Three Phase Wye  
 For all three phase systems up to 420 VAC line to ground

Note: NOT FOR USE for UL96A Master Label Certifications.  
 Meets UL 1449 Rev 3 requirements but NOT UL LISTED.

## Surge Protection Devices

ECLE stocks a variety of Surge Protection Devices, including products that meet the latest UL 96A Master Label Certification requirements. Call the factory for assistance with product selection and to obtain cut sheets.



### Telephone Surge Protection Devices

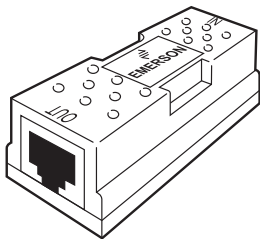
- |                                       |   |
|---------------------------------------|---|
| <b>APT-SAT1</b>                       | In-line RJ45/RJ11 Telephone Protection (not pictured)                           |
| <b>APT-TM1P</b>                       | Hard-Wired 1 Pair Telephone Protection  |
| <b>APT-SATH2</b><br><b>APT-SATHW2</b> | Hard-Wired 2 Pair Telephone Protection<br>As above with weather proof enclosure |
| <b>APT-SATW6</b>                      | Hard-wired 6 Pair Telephone Protection with weather proof enclosure             |

A variety of snap-on protectors are also available.



### Video/Coax Surge Protection Devices

- |                   |  |
|-------------------|--|
| <b>APT-SAVFFF</b> | F-Style In-line Coax Protector. Rated for CATV, DSS, TV, VCR and Cable Modems. UL 497B and 497C Listed |
| <b>EMR-CX06-M</b> | CCTV and Data/Coax Protector (not shown) UL 497B Listed  |
| <b>SYC-VF-H</b>   | High Frequency Coax Protector (not shown)  |



### Data Line Surge Protection Devices

- |                      |  |
|----------------------|--|
| <b>EMR-CAT6-5POE</b> | Data line protection for category 5 power over ethernet data lines and category 6 applications. RJ-45 female connectors. UL497B Listed |
|----------------------|--|