

Coordinated padlock and penta-head or optional hex-head bolt (top and bottom) provides bolted-door security with visual confirmation by supervisory personnel. Security bolt is made captive with a stainless steel washer compressed to an oval shape to severely discourage removal.

Corrosion proof nameplate is located inside the Side 1 door to provide easy access for the operator

**“In-Air” Insulation** eliminates leaking or contamination of insulating medium for long trouble-free operation

**“In-Air” Visibility** allows visual inspection of all components without the inconvenience or expense associated with equipment which must be de-energized for inspection

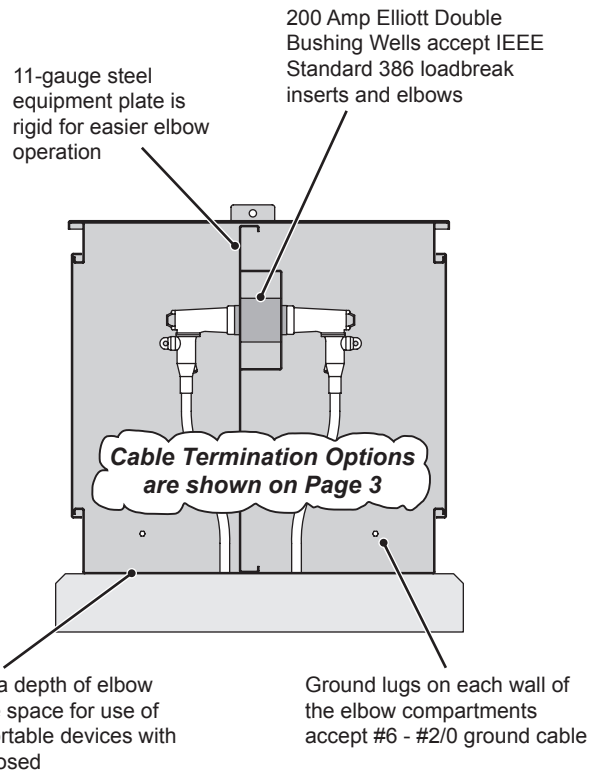
**Superlife Finish** Includes phosphatizing, rust-inhibiting epoxy primer and Pad-Mount Green (Munsell 7GY 3.29/1.5) polyurethane top coat - over 5 mils dry

**Field-Proven Components** including Elliott bushing wells specifically designed for elbow-to-elbow operation gives you long-term reliable service

**Standard Cable Training** means quick, economical installation and assures proper operation for the life of the equipment

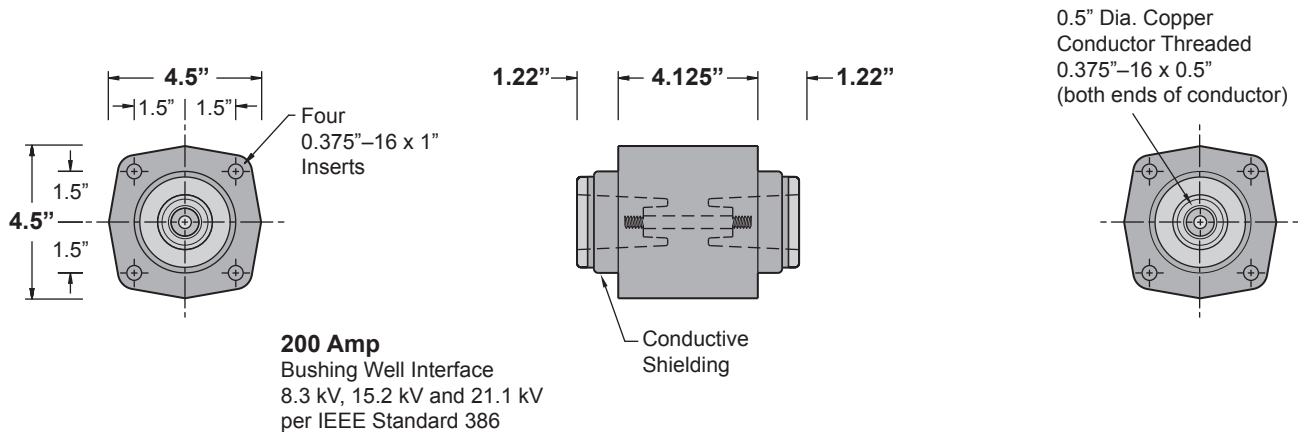
**Deep Elbow Compartments** and careful placement of bushing wells and parking stands makes switching and grounding easier and safer

**Tamper-Resistant Enclosure** meets National and Regional Enclosure Integrity Standards and virtually eliminates the entrance of airborne contamination to reduce maintenance



**ENCLOSURE OPTIONS:**  
1) 0.125" #5052H32 Aluminum  
2) 12-gauge #304L Stainless Steel

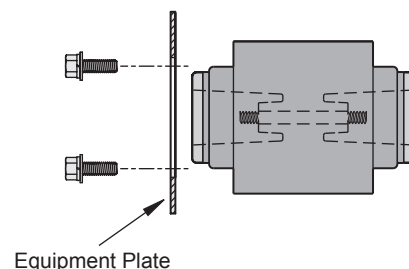
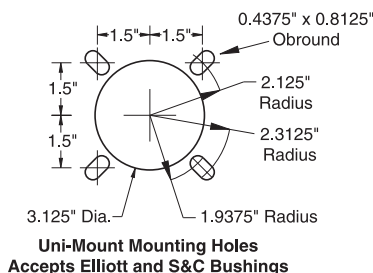
**200 Amp Double Bushing Well #1325-225B-DW**



**Typical Specifications - 200 Amp 15-kV and 25-kV Double Bushing Wells**

Double Bushing Wells shall be 200 ampere Elliott #1325-225B-DW, 25 kV class (15.2 kV to ground) Bushing Wells, 125 kV BIL, per IEEE Standard 386 Fig. 3 (200 A Bushing Well Interface, 8.3 kV, 15.2 kV and 21.1 kV) for use with either 8.3/14.4 kV or 15.2/26.3 kV separable insulated connectors (Elastimold®, Eaton's Cooper Power Systems or other approved equal). The bushing wells shall be pressure-molded cycloaliphatic epoxy with a 0.5-inch diameter copper conductor that is threaded 0.375-inch–16UNC on both ends. Integral shielding shall be provided to eliminate partial discharge caused by off-center mounting and mounting holes that may have sharp edges or burrs. Double Bushing Wells shall mount in a 3.125-inch diameter opening and bolt in place to allow field replacement with standard tools. The bushing well mounting bolts shall be self-locking stainless steel serrated-flange hex-head bolts that "cut" through the

enclosure protective finish to ground the integral shielding of each bushing well. To assure adequate strength for apparatus support, the bushing well shall withstand a minimum cantilever loading of 600 pounds for five minutes without damage. The bushing well interface shall be free of all voids, holes and heat sinks to assure proper mating with separable insulated connectors. Each Double Bushing Well shall be tested in free air, mounted in a grounded steel plate not less than 10 inches x 10 inches, with a bushing well plug (Eaton's Cooper Power Systems #IBWP225 or equal) installed in the well interface to accurately simulate operating conditions (*gas or liquid dielectric on the interface shall not be acceptable for this test*). Each bushing well shall meet the requirements for 25 kV devices in accordance with IEEE Standard 386 (latest revision), including 100 percent production testing.

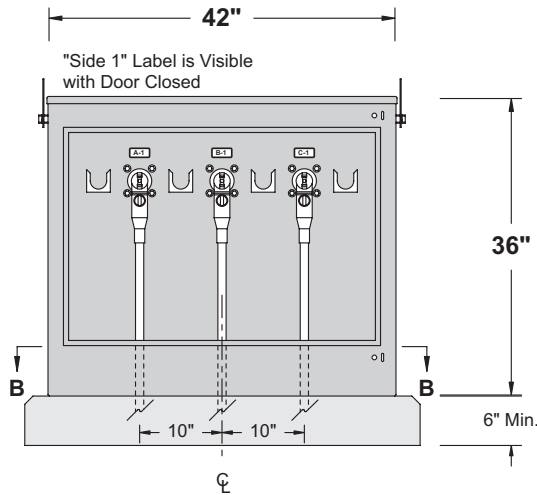


### Cable Termination Options

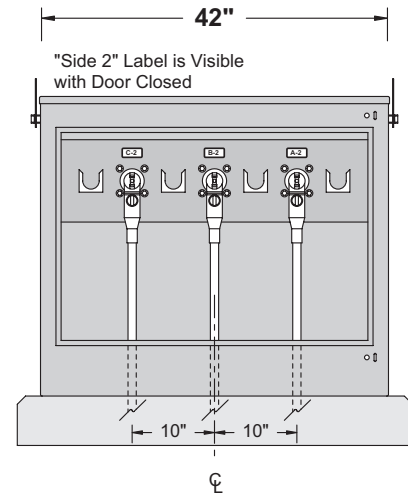
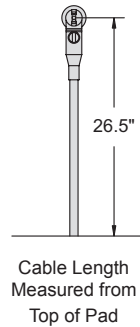
Eaton's Cooper Power Systems, Elastimold® and Richards Mfg. Co. 200 Amp 15 kV Loadbreak Elbows, Loadbreak Inserts, Loadbreak Double Inserts and Elbow Type Surge Arresters utilize the IEEE Standard 386 Fig. 3 (200 Amp Bushing Well Interface, 8.3 kV, 15.2 kV and 21.1 kV), Fig. 5 (200 Amp Loadbreak Interface, 8.3 kV and 8.3/14.4 kV) and Fig. 6 (200 Amp Loadbreak Probe and Elbow, 8.3 kV and 8.3/14.4 kV). For those reasons, all three manufacturers' elbows, inserts and arresters are suitable for use with Elliott 200 Amp 15 kV and 25 kV Double Bushing Wells shown on page 2.



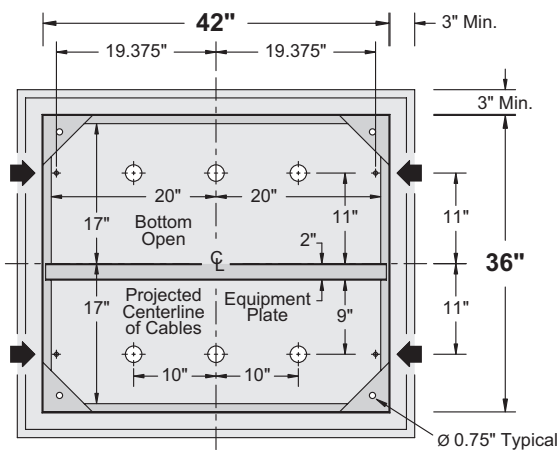
## Cable Training and Anchor Bolt Locations



**Front View - Side 1**  
Door Removed

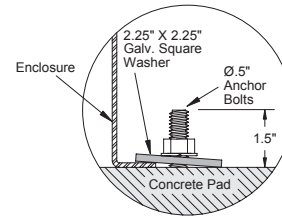


**Rear View - Side 2**  
Door Removed

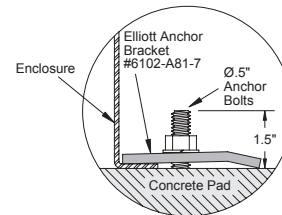


➔ ◀ Anchor Bolt Locations

**Section BB**  
and Typical Pad Dimensions



**Alternate #1**



**Alternate #2**

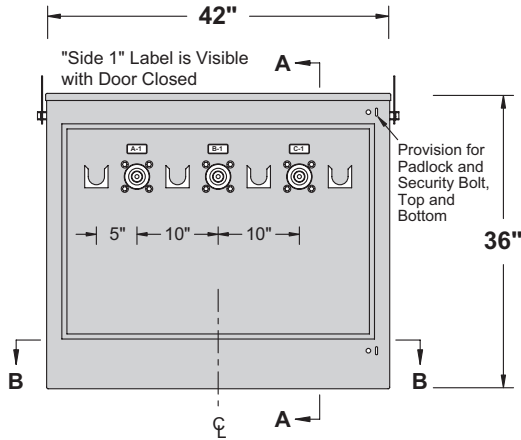
<b>Catalog Number</b>	<b>Non-Fusible</b>
<b>EPME-15-311S-E2DBW</b>	200 Amp Elliott Double Bushing Wells

When additional cable terminating space is required, 42" or 48" high enclosure can be supplied to increase cable terminating space by 6" or 12". To order a 42" high enclosure, suffix the catalog number "-42H". To order a 48" high enclosure, suffix the catalog number "-48H".

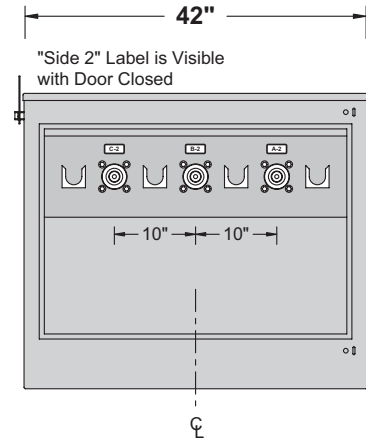


**Three Phase – Two Ways per Phase**

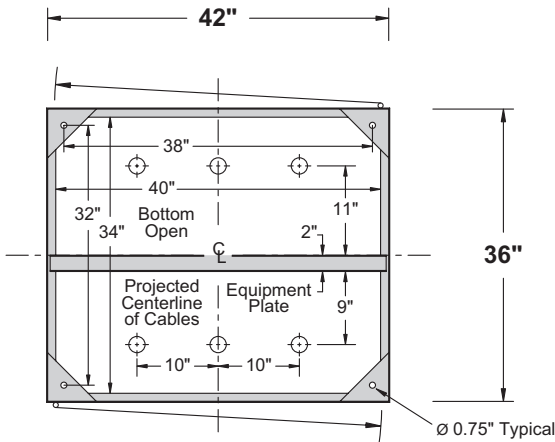
200 Amp Elliott Air-Insulated Double Bushing Wells  
 8.3/14.4 kV Grounded Wye Max Design  
 95 kV BIL



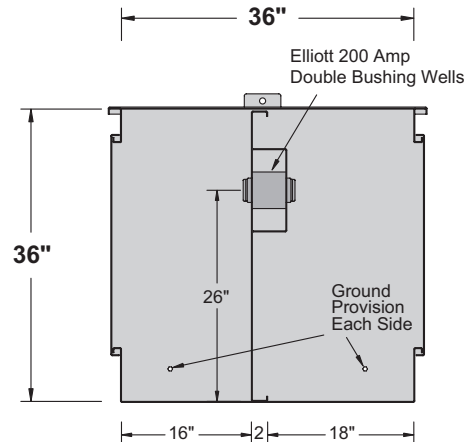
**Front View - Side 1**  
 Door Removed



**Rear View - Side 2**  
 Door Removed



**Section BB**



**Section AA**  
 Side 1 Side 2

<b>Catalog Number</b>	<b>Non-Fusible</b>
<b>EPME-15-311S-E2DBW</b>	200 Amp Elliott Double Bushing Wells

When additional cable terminating space is required, 42" or 48" high enclosure can be supplied to increase cable terminating space by 6" or 12". To order a 42" high enclosure, suffix the catalog number "-42H". To order a 48" high enclosure, suffix the catalog number "-48H".

**Typical Specification - Page 1 of 2****General**

The cable switching station shall be 15 kV class, 95 kV BIL, 200 ampere continuous current, suitable for use on 8.3/14.4 kV grounded wye max design systems. The switching station shall be constructed for connection to the utility system with separable insulated connectors as described in IEEE Standard 386—latest revision (separable insulated connectors [and loadbreak inserts when required] shall be supplied by the user). The switching station shall be designed with two elbow compartments separated by a steel equipment plate. Separate access shall be provided for each compartment. Tamper resistance shall meet the Enclosure Security requirements of IEEE Standard C57.12.28 (Pad-Mounted Equipment—Enclosure Integrity). The tamper resistance shall resist unauthorized entry, protect authorized and unauthorized persons, and provide positive safety features when installed in areas accessible to the general public. The cable switching station shall be constructed for outdoor installation in areas subject to heavy precipitation and in areas with windblown contamination. The equipment shall be “air-insulated” and completely assembled prior to shipment.

**Enclosure Construction**

The enclosure shall be tamper-resistant, all-welded construction utilizing 11-gauge minimum sheet steel. Corner plates and braces shall be used as necessary to assure rigidity. The enclosure top shall be cross-kinked to provide watershed and rigidity. The enclosure shall be open bottom with a 1-inch flange inside, all around. Two compartments shall be provided for cable termination—each compartment equipped with its own individual access door(s) furnished with a stainless steel door holder that will latch the door open 100 degrees and 140 degrees and resist accidental closing. The equipment plate separating the two compartments shall be constructed with 11-gauge minimum sheet steel braced to assure rigidity when operating the elbows. Doors shall be provided with provisions for padlocking and a recessed penta-head (or hex-head) security bolt to prevent unauthorized entry (coordinated to prevent installation of the padlock until the security bolt is tightened *when closing the door(s)* and to prevent a wrench from operating the security bolt until the padlock is removed *when opening the door(s)*). The security bolt shall be made captive with a stainless steel washer compressed to an oval shape to severely discourage removal. Hinges shall be stainless steel (with stainless steel pins not less than 0.3125-inch diameter) and shall be

welded to both the enclosure and the door(s) to maintain door alignment for the life of the equipment. The enclosure shall be nonventilated to minimize the entrance of airborne contamination, insects, rodents or reptiles. The protective finish shall include necessary grinding, cleaning and phosphatizing, two-component rust-inhibiting epoxy primer and a Pad-Mount Green two-component polyurethane top coat finish (Munsell color 7GY 3.29/1.5). The primer and top coat shall be electronically monitored during application to insure proper ratio and mixing of each component. Total average thickness of paint (after curing) shall be not less than 5 mils. The protective coating shall meet the Enclosure Coating System requirements of IEEE Standard C57.12.28 (Pad-Mounted Equipment—Enclosure Integrity). Removable lift provisions, adequate to withstand handling with normal utility equipment, shall be provided on the outside of the enclosure. Threaded openings for lift provision bolts shall be blind holes to prevent the entrance of wire or other foreign objects into the enclosure when lift provisions are removed.

**Bushings**

Double Bushing Wells shall be 200 ampere Elliott #1325-225B-DW, 25 kV class (15.2 kV to ground) Bushing Wells, 125 kV BIL, per IEEE Standard 386 Fig. 3 (200 A Bushing Well Interface, 8.3 kV, 15.2 kV and 21.1 kV) *for use with either 8.3/14.4 kV or 15.2/26.3 kV separable insulated connectors* (Elastimold®, Eaton's Cooper Power Systems or other approved equal). The bushing wells shall be pressure-molded cycloaliphatic epoxy with a 0.5-inch diameter copper conductor that is threaded 0.375-inch–16UNC on both ends. Integral shielding shall be provided to eliminate partial discharge caused by off-center mounting and mounting holes that may have sharp edges or burrs. Double Bushing Wells shall mount in a 3.125-inch diameter opening and bolt in place to allow field replacement with standard tools. The bushing well mounting bolts shall be self-locking stainless steel serrated-flange hex-head bolts that “cut” through the enclosure protective finish to ground the integral shielding of each bushing well. To assure adequate strength for apparatus support, the bushing well shall withstand a minimum cantilever loading of 600 pounds for five minutes without damage. The bushing well interface shall be free of all voids, holes and heat sinks to assure proper mating with separable insulated connectors. Each Double Bushing Well shall be tested in free air, mounted in a grounded steel plate not less than 10 inches x 10 inches, with a bushing well plug (Eaton's Cooper Power Systems

**Typical Specification - Page 2 of 2**

#IBWP225 or equal) installed in the well interface to accurately simulate operating conditions (*gas or liquid dielectric on the interface shall not be acceptable for this test*). Each bushing well shall meet the requirements for 25 kV devices in accordance with IEEE Standard 386 (latest revision), including 100 percent production testing.

**Grounding Provisions**

Two high-conductivity bronze eyebolt-type ground lugs, which accept #6 through #2/0 copper conductor, shall be installed in each cable terminating compartment (located on each side of the door opening in an accessible position).

**Accessory Equipment**

Stainless steel parking stands shall be provided in the quantity required to allow use of feed-thru bushings, parking bushings and grounding bushings. The parking stands shall be welded in place, in a position to allow the use of hot-line tools for installation of feed-thru bushings, etc. The parking stands shall be *unpainted* (except welds shall be painted) to *provide a ground* for feed-thru bushings and other devices that may be placed into the parking stands.

A corrosion proof nameplate with permanent thermal transfer printing shall be installed inside the door on the "Side 1" elbow compartment. It shall be located at the top corner farthest from the elbows when the door is open. The nameplate will provide Type of Equipment, Model Number, Amps Continuous, kV Maximum, BIL, Serial Number, Job Number, Date Manufactured and Weight of Equipment.

Bushing wells on the "Side 1" elbow side of the equipment plate shall be labeled "A1", "B1", "C1" and bushing

wells on the "Side 2" elbow side of the equipment plate shall be labeled "C2", "B2", "A2" with pressure-sensitive vinyl labels using letters not less than 0.375-inch nor more than 0.625-inch high.

When enclosures have more than one door (or other access provision) each access shall be labeled in near proximity of the locking provisions with a pressure-sensitive vinyl label using letters not less than 0.375-inch nor more than 0.625-inch high. The label shall indicate "Side 1" or "Side 2".

When specified, four anchor-bolt brackets, Elliott #6102-A81-7 or approved equal, shall be supplied with each cable switching station to provide a means of clamping the equipment to the concrete pad.

**Packaging**

Each cable switching station shall be bolted to a solid-top wood pallet (to prevent the forks of a forklift truck from entering the open bottom of the equipment) to prevent hidden damage. The equipment shall be wrapped with 0.125-inch thick polyethylene foam or other suitable material to minimize damage to the finish during shipment.

**Drawings**

When specified, drawings shall be furnished for each cable switching station that include:

- 1) enclosure dimensions and location of components.
- 2) proposed cable-training layout and dimensions.
- 3) proposed pad dimensions and location of anchor bolts.



**15-kV Safefront 200 Amp Source Isolated  
Cable Switching Station**

Pad-Mounted    Non-Fusible

Bulletin  
**450-120**  
Page 8    2016

Supersedes 450-111

**If you do not find the design  
you need**

**PLEASE CONTACT**

**our REPRESENTATIVE or the FACTORY**