

# 35kV Deadbreak Elbow

**Product Data Sheet** 

The Richards 35kV Deadbreak Elbow is a medium voltage cable accessory used to terminate/splice 35kV cables and equipment.

Our Elbow is molded in the USA from EPDM compounds produced in-house by our polymer production division. The Deadbreak "T-body" is fully-shielded, submersible and available with or without a capacitive test point.

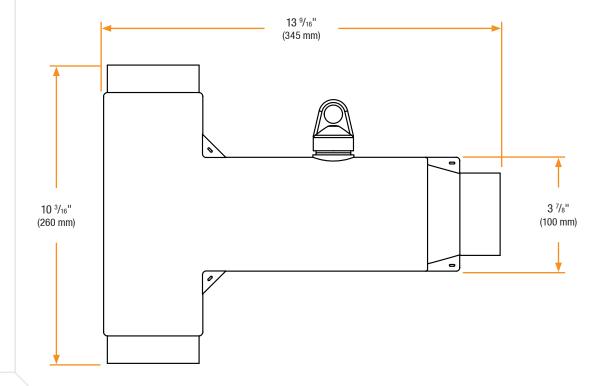
A variety of accessories are available for insulating, testing, grounding and paralleling circuits. The current-rating of the Deadbreak Elbow housing is determined by the metallic components utilized to make the connection. If all-copper components are used, the Deadbreak Elbow assembly has a 900A rating. Otherwise, the assembly is rated for 600A.



#### Features

- 100% EPDM Composition
- Injection Molded & Peroxide-Cured
- Made in the USA
- Fully-Shielded/Deadfront
- Submersible
- Optional Capacitive Test Point

### **Basic Dimensions**





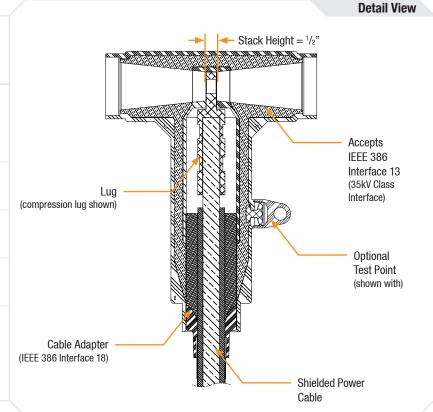
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#### Installation

35kV Deadbreak Elbow installation is covered by: RP-II-63LC

#### **Related Products**

P635HIP-STUD 35kV Aluminum Threaded Stud	P935HIP-STUD 35kV Copper Threaded Stud
P6AL-X Aluminum Compression Lug	P9CU-X Copper Compression Lug
P6ALR-X Aluminum Range Taking Lug	P7ALCU-X Copper-Top Compression Lug
P635CA-W 35kV Cable Adapter	
P635HIP 35kV Aluminum Insulating Plug	P935HIP 35kV Copper Insulating Plug



#### **Applications**



Outdoor



Vaults



**Enclosures** 



**Direct Bury** 



Submersible

#### **Production Testing**

IEEE requires a Partial Discharge test and choice between AC withstand and Impulse.

Richards runs 3/3 tests on **all** Medium Voltage products governed by IEEE 386.

#### **100% Routine Electrical Test:**

- Partial Discharge
- AC Withstand
- Impulse Withstand

Richards Deadbreak Elbows are designed to allow for production testing at 200kV BIL. For more information see our 200kV BIL Product Data Sheets or contact the factory.

#### **Product Ratings**

Voltage Ratings		
Maximum Voltage Rating – (phase to ground)	21.1kV	
Corona Voltage Level – (partial discharge extinction voltage)	26kV	
AC Withstand – (1 minute)	50kV	
Impulse-Withstand Voltage – (BIL)	162kV BIL 🖳	

Continuous Current Ratings		
Aluminum	600A	
Copper	900A	

Short-Time Current Ratings	
Aluminum	25kA, 10c. and 10kA, 3s.
Copper	40kA, 10c. and 10kA, 3s.

The 35kV Deadbreak Elbow is qualified to the following industry standards:

- IEEE Std 386: For Separable Insulated Connector Systems
- ANSI C119.4: For Electric Connectors
- IEEE Std 592: For Exposed Semiconducting Shields

R Exceeds IEEE 386 requirement