# 35kV Deadbreak Elbow Extension Adapter

Product Data Sheet

The Richards 35kV Deadbreak Elbow Extension Adapter provides a robust solution for extension of medium voltage power cable. Applications include extending a connection to reach new equipment (e.g. live front to dead front conversion) and replacing damaged cable/ accessories.

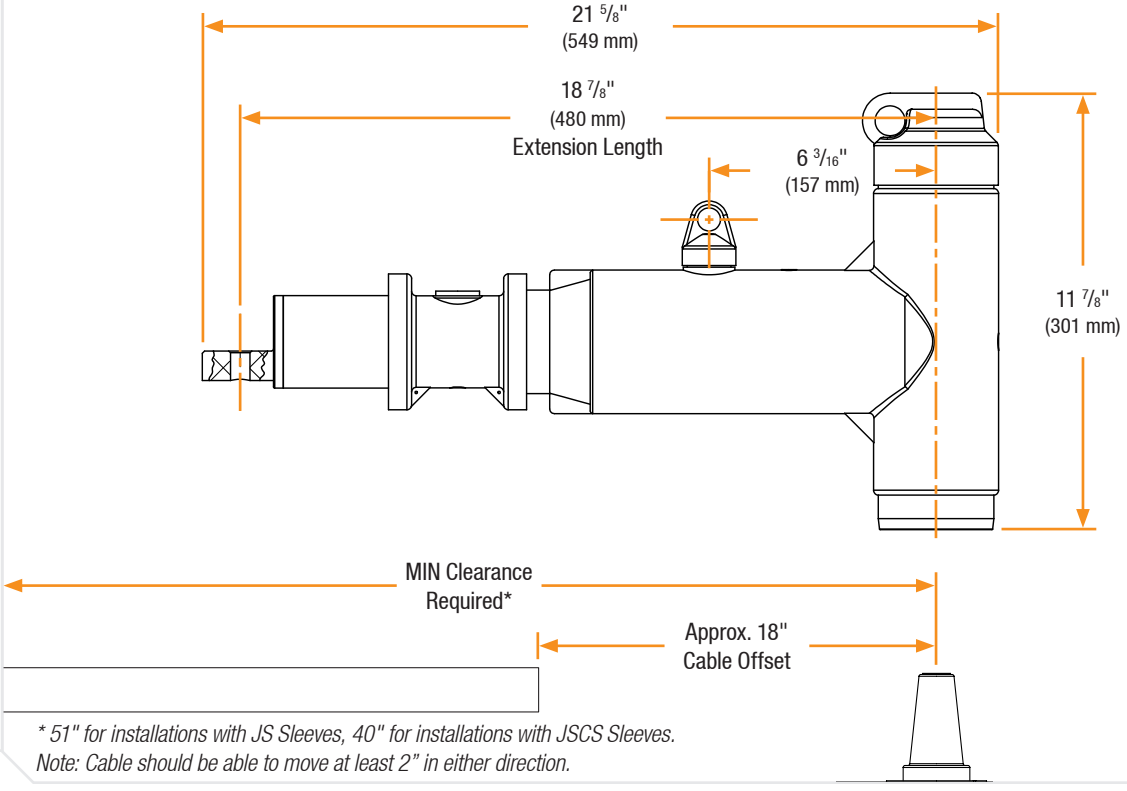
The Adapter is a specialized bus which is designed to interface with a 35kV Deadbreak Elbow housing on one side, and a 35kV Disconnectable Joint Sleeve on the other. Richards JSCS Cold Shrink or traditional Richards Disconnectable Joint Sleeves can be utilized.

The Deadbreak Elbow housing mates with the equipment connection (switchgear/ transformer bushing, deadbreak junction, etc.) and the Disconnectable Joint Sleeve provides an in-line transition to the power cable.

## Features

- Injection Molded and Peroxide Cured
- Aluminum contact overmolded with EPDM rubber
- Extension length facilitates repair and equipment replacements/ upgrades
- Molded top interface designed to mate with 35kV Deadbreak Elbow housing
- Bottom Disconnectable Joint interface allows for in-line connection
- Factory-installed Lug

## Basic Dimensions




** 51" for installations with JS Sleeves, 40" for installations with JSCS Sleeves.*
*Note: Cable should be able to move at least 2" in either direction.*

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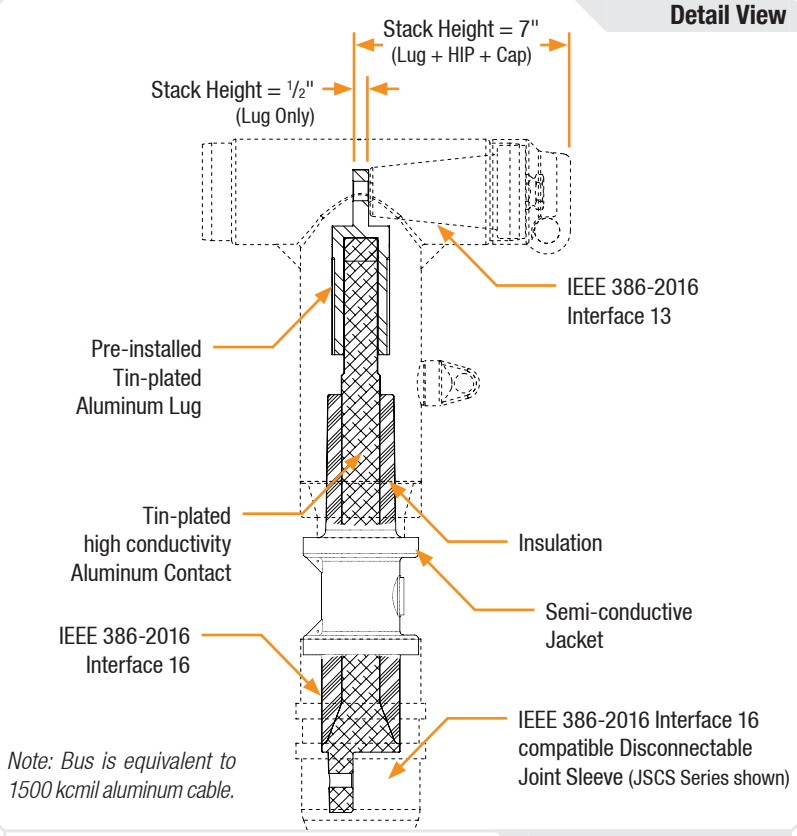
## Installation

35kV Deadbreak Elbow Extension Adapter installation is covered by: **II-35DE-JS** for JS Sleeves and **II-35DE-JSCS** for JSCS Sleeves

## Related Products

| | |
|---|---|
| **P635HIP-STUD**<br>35kV Aluminum Threaded Stud | **P935HIP-STUD**<br>35kV Copper Threaded Stud |
| **JS SERIES**<br>35kV Disconnectable Joint Sleeve | **JSCS SERIES**<br>35kV Cold Shrink Sleeve - all sizes |
| **P635HIP**<br>35kV Aluminum Insulating Plug | **P935HIP**<br>35kV Copper Insulating Plug |
| **P635CPR**<br>35kV Connecting Plug | **P935CPR**<br>35kV Connecting Plug |

## Detail View




*Note: Bus is equivalent to 1500 kcmil aluminum cable.*

## 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 Elbow Extension Adapters 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 |

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

The 35kV Deadbreak Elbow Extension Adapter 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

® *Exceeds IEEE 386 requirement*