

# HUBBELL

## Power Systems

### SDC™ Composite Bushing - 35kV DC

By Electro Composites  
 Catalog # 170-012-D-1076-00

SDC™ 35kV-1200 A DC Condenser Bushing, Solid-Dielectric-Capacitor Type, Rated per IEC 62199, Bottom Connected for Air-to-Air Applications, 21" Ground Shield Length, 37.6" Min. Creepage Length



\*Representative Image

#### Features

- SDC™ - Solid Dielectric Capacitance Graded Composite Construction
- EC-APG-02 Cycloaliphatic Epoxy Compound for Optimal Performance
- No oil, paper or porcelain
- Can be mounted vertically or horizontally
- Meets IEC 62199 Electrical and Mechanical Requirements

#### General

|                                 |                                  |
|---------------------------------|----------------------------------|
| Application                     | DC                               |
| Bottom Terminal Type            | 1 1/2-12                         |
| Color                           | Gray                             |
| Immersion Type - Above Flange   | Air                              |
| Immersion Type - Below Flange   | Air                              |
| Material - Flange               | Aluminum                         |
| Material - Insulation           | APG-02 - Cycloaliphatic Epoxy    |
| Mounting Position               | Vertical to Horizontal           |
| Number of Flange Mounting Holes | 4                                |
| Plating - Bottom Terminal       | Silver                           |
| Test Tap                        | Yes                              |
| Top Terminal Plating            | Silver                           |
| Top Terminal Type               | 1 1/2-12                         |
| Type                            | SDC - Solid Dielectric Capacitor |

#### Dimensions

|   |                                |
|---|--------------------------------|
| Above Flange Length                         | 20.8 in                        |
| Below Flange Length                         | 53.25 in                       |
| Diameter - Above Flange Maximum             | 8.64 in                        |
| Diameter - Below Flange Maximum D <gt;/> 1" | 5.75 in                        |
| Diameter - Below Flange Maximum P           | 5.75 in                        |
| Diameter - Live Part Bottom                 | 1.50 in                        |
| Diameter - Live Part Top                    | 3.00 in                        |
| Dimensions                                  | 74.00 in x 10.00 in x 10.00 in |
| Effective Length - Bottom Terminal          | 2.50 in                        |
| Effective Length - Top Terminal             | 2.50 in                        |
| Flange Mounting Hole Bolt Circle            | 8.25 in                        |
| Flange Mounting Hole Diameter               | 0.88 in                        |
| Flange Outside Diameter                     | 10 in                          |
| Height                                      | 10 in                          |
| Length                                      | 74 in                          |
| Length - Ground Shield                      | 21.00 in                       |
| Length - Insulation Above Flange            | 13.60 in                       |
| Length - Insulation Below Flange            | 28.05 in                       |
| Length - Live Part Bottom                   | 4.20 in                        |
| Length - Live Part Top                      | 3.50 in                        |
| Length - Minimum Oil Immersion Level        | NA                             |
| Sealing Surface Inside Diameter             | 5.75 in                        |
| Sealing Surface Outside Diameter            | 7.37 in                        |
| Top Terminal Min. Thread Length             | 2.5 in                         |
| Weight                                      | 140 lb                         |
| Width                                       | 10 in                          |

## Electrical Ratings

|                               |          |
|-------------------------------|----------|
| BIL                           | 170 kV   |
| Current Rating                | 1200 A   |
| Minimum Creepage              | 37.6 in  |
| Minimum Creepage - Inside     | 36.70 in |
| Minimum Strike                | 15.8 in  |
| Minimum Strike - Inside       | 30.60 in |
| Withstand Voltage - 60 Hz Dry | 80 kV    |
| kV Class                      | 35 kV    |

## Certifications And Compliance

Industry Standard(s) IEC 62199

## Product Assets

[Installation Manuals - SDC™ Bushing General Handling and Maintenance Guide - Electro Composites](#)  
[Sales Drawings - 1076-00\\_4038-10251](#)

