

## SDC™ Composite Bushing - 15kV

By Electro Composites  
Catalog # 110-003-T-565-01

SDC™ 15kV-300 A Transformer Condenser Bushing, Solid-Dielectric-Capacitor Type, Rated per IEEE C57.19.01, Bottom Connected for Air-to-Oil Applications, 8.4" Min. Oil Immersion Level/CT Pocket Length, 13.8" Min. Creepage Length



\*Representative Image

### Features

- SDC™ - Solid Dielectric Capacitance Graded Composite Construction
- EC-APG-02 Cycloaliphatic Epoxy Compound for Optimal Performance
- Meets IEEE C57.19.01 Electrical and Mechanical Requirements
- Can be mounted vertically or horizontally

### Application

Transformer

### General

|                                 |                               |
|---------------------------------|-------------------------------|
| Bottom Terminal Type            | 1/2-13                        |
| Color                           | Gray                          |
| Immersion Type - Above Flange   | Air                           |
| Immersion Type - Below Flange   | Oil                           |
| Material - Flange               | Aluminum                      |
| Material - Insulation           | APG-02 - Cycloaliphatic Epoxy |
| Mounting Position               | Vertical to Horizontal        |
| Number of Flange Mounting Holes | 4                             |
| Plating - Bottom Terminal       | None                          |
| Test Tap                        | Yes                           |
| Top Terminal Plating            | None                          |
| Top Terminal Type               | 1 1/8-12                      |
| Type                            | Condenser Bushings            |

### Dimensions

|                                             |          |
|---------------------------------------------|----------|
| Above Flange Length                         | 12.41 in |
| Below Flange Length                         | 14.19 in |
| Diameter - Above Flange Maximum             | 5.21 in  |
| Diameter - Below Flange Maximum D <gt;/> 1" | 2.76 in  |
| Diameter - Below Flange Maximum P           | 2.76 in  |
| Diameter - Live Part Bottom                 | 1.25 in  |
| Diameter - Live Part Top                    | 2.75 in  |
| Effective Length - Bottom Terminal          | 1.63 in  |
| Effective Length - Top Terminal             | 2.50 in  |
| Flange Mounting Hole Bolt Circle            | 4.75 in  |
| Flange Mounting Hole Diameter               | 0.50 in  |
| Flange Outside Diameter Length              | 5.75 in  |
| Length - Ground Shield                      | 26.60 in |
| Length - Insulation Above Flange            | 8.40 in  |
| Length - Insulation Below Flange            | 12.40 in |
| Length - Live Part Bottom                   | 3.19 in  |
| Length - Live Part Top                      | 2.60 in  |
| Length - Minimum Oil Immersion Level        | 3.40 in  |
| Sealing Surface Inside Diameter             | 8.40 in  |
| Sealing Surface Outside Diameter            | 3.01 in  |
| Top Terminal Min. Thread Length             | 4.25 in  |
| Weight                                      | 2.50 in  |
|                                             | 22 lb    |

### Electrical Ratings

|                               |          |
|-------------------------------|----------|
| BIL                           | 110 kV   |
| Current Rating                | 300 A    |
| Minimum Creepage              | 13.80 in |
| Minimum Strike                | 6.80 in  |
| Withstand Voltage - 60 Hz Dry | 50 kV    |
| kV Class                      | 15 kV    |

## Certifications and Compliance

Industry Standard(s)

IEEE C57.19.01

### Product Assets

[Installation Manuals - SDC™ Bushing General Handling and Maintenance Guide - Electro Composites](#)  
[Literature - Apparatus Bushings Selection Guide \(TD02026E\)](#)  
[Literature - SDC™ GSU Bushings - Electro Composites \(SF02018E\)](#)  
[Literature - SDC™ HV Generator Bushings - Electro Composites \(SF02019E\)](#)  
[Literature - SDC™ HV Bushings - Electro Composites \(SF02017E\)](#)  
[Literature - EC SDC Solid Dielectric Bushings v3](#)  
[Literature - FRENCH V2 - EC Generation Bushings](#)  
[Literature - FRENCH V2 - EC GSU Bushings](#)  
[Literature - How an SDC Bushing Test Tap is Constructed](#)  
[Sales Drawings - 565-01\\_6914-6616](#)  
[Video - ElectroComposites Factory Tour: St. Jerome \(V100124E\)](#)



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