

# Earthbridge B161, Four Stud, Insulated Cable, Straight



Earthbridges are assemblies made from a high-quality conductive earthpoint (connecting terminal) and various types of conductors. The nVent ERICO Cadweld exothermic connection process is used to combine them together, forming a highly corrosion resistant and long-lasting assembly.

## DIAGRAMS



## FEATURES

Long-lasting design

Low ground resistance and impedance

Superior electrical conductivity and resistance to corrosion

Electrically and mechanically robust and reliable

Easy to install

## SPECIFICATIONS

|                         |                                        |
|-------------------------|----------------------------------------|
| <b>Earthpoint Type:</b> | B161, Four Stud                        |
| <b>Material:</b>        | Copper                                 |
| <b>Conductor Type:</b>  | Yellow-Green Insulated Cable, Straight |

Table 1/3

| Catalog Number | Article Number | Type | Conductor Size | Length (L) | Depth 1 (D1) | Depth 2 (D2) |
|----------------|----------------|------|----------------|------------|--------------|--------------|
|----------------|----------------|------|----------------|------------|--------------|--------------|

|               |        |      |                                |        |      |      |
|---------------|--------|------|--------------------------------|--------|------|------|
| B16110C501    | 166520 | BFCS | 50 mm <sup>2</sup><br>Stranded | 1000mm | 30mm | 65mm |
| BF10C50S050H  |        | BFCS | 50 mm <sup>2</sup><br>Stranded | 500mm  | 30mm | 65mm |
| B16110C5005   | 166510 | BFCS | 50 mm <sup>2</sup><br>Stranded | 500mm  | 30mm | 65mm |
| BF10C50S100HC |        | BFCS | 50 mm <sup>2</sup><br>Stranded | 1000mm | 30mm | 65mm |

Table 2/3

| Catalog Number | Article Number | Width 1 (W1) | Width 2 (W2) | Thread Size (TS) | Hole Quantity | Rebar Assembly Type |
|----------------|----------------|--------------|--------------|------------------|---------------|---------------------|
| B16110C501     | 166520         | 30 mm        | 65 mm        | M10              | 4             | Cadweld or Clamp    |
| BF10C50S050H   |                | 30 mm        | 65 mm        | M10              | 4             | Cadweld or Clamp    |
| B16110C5005    | 166510         | 30 mm        | 65 mm        | M10              | 4             | Cadweld or Clamp    |
| BF10C50S100HC  |                | 30 mm        | 65 mm        | M10              | 4             | Cadweld or Clamp    |

Table 3/3

| Catalog Number | Article Number | Hardware Included | Earthbridge Application | Complies With                    |
|----------------|----------------|-------------------|-------------------------|----------------------------------|
| B16110C501     | 166520         | Yes               | Building                | EN IEC® 62561-1<br>Class H 100kA |
| BF10C50S050H   |                | Yes               | Building                | EN IEC® 62561-1<br>Class H 100kA |
| B16110C5005    | 166510         | Yes               | Building                | EN IEC® 62561-1<br>Class H 100kA |
| BF10C50S100HC  |                | Yes               | Building                | EN IEC® 62561-1<br>Class H 100kA |

## ADDITIONAL PRODUCT DETAILS

Includes (4) brass bolts, (4) brass washers, (4) plastic caps, and (1) protective label.

| DB-16-C-70-S-050-C |                               |                                                                                                                                     |
|--------------------|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| DB                 | Earth Point                   | DB: 1 hole<br>BT: 2 holes<br>BF: 4 holes<br>LU: M16 lug<br>TA: tape                                                                 |
| 16                 | Thread Size                   | 10: M10<br>12: M12<br>16: M16<br>40: Tape 40x5mm<br>30: Tape 30x4mm                                                                 |
| C                  | Conductor Type                | K: Steel Rond<br>C: Y/G Cable<br>T: Steel Bar<br>F: Steel Bar 4mm<br>N: NYY-O Cable<br>H: N2XH-0 Cable                              |
| 70                 | Conductor Size                | 12: D12mm<br>16: D16mm<br>30: 30x4mm<br>40: 40x5mm<br>50: 50mm <sup>2</sup><br>70: 70mm <sup>2</sup><br>95: 95mm <sup>2</sup>       |
| S                  | Conductor Angle               | S: 0°<br>P: 90°<br>A: 45°                                                                                                           |
| 050                | Length (cm)                   | xxx                                                                                                                                 |
| x                  | Termination (option if cable) | SR: Solid Round<br>EP: Earthpoint perpendicular<br>ES: Earthpoint straight<br>TA: Tape of 100mm<br>TP: Tape of 150mm<br>LU: M16 lug |
| x                  | Bolts & Washer                | - : No Hardware<br>H: With Hardware                                                                                                 |
| C                  | Packaging                     | - : by unit (Made-to-Stock)<br>C: 5 pieces (Made-to-Order)<br>G: 25 pieces (Made-to-Order)                                          |

## DIAGRAMS



**WARNING**

nVent products shall be installed and used only as indicated in nVent's product instruction sheets and training materials. Instruction sheets are available at [www.nvent.com](http://www.nvent.com) and from your nVent customer service representative. Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death and/or void your warranty.

**⚠ WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

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