



## Wiremold

# Evolution™ Series 6" Furniture Feed Poke-Thru Devices INSTALLATION INSTRUCTIONS

Installation Instruction No.: 1 007 155 R2 – Updated May 2010

Wiremold electrical systems conform to and should be properly grounded in compliance with requirements of the current National Electrical Code or codes administered by local authorities.

All electrical products may present a possible shock or fire hazard if improperly installed or used. Wiremold electrical products may bear the mark as UL Listed and/or Classified and should be installed in conformance with current local and/or the National Electrical Code.

**IMPORTANT: Please read all instructions before beginning.**

Products Covered: 6ATCFF, 6STC, 6CFFTC, 15FFHA, 152CHA, CE6ATCFF

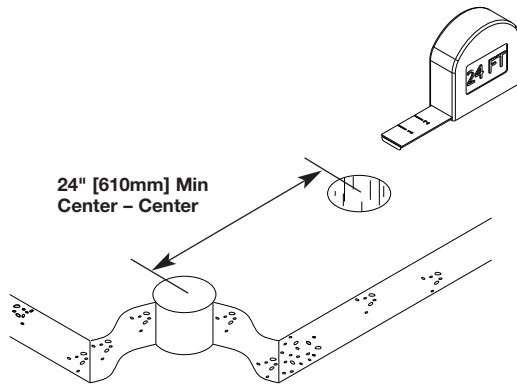
**CAUTION DO NOT** operate tile stripper, cleaning, or resurfacing equipment over top of covers. This may result in damage to the surface finish of the product.

Suitable for use in air handling spaces in accordance with Sec. 300-22 (C) of the National Electrical Code.

### FLOOR PREPARATIONS

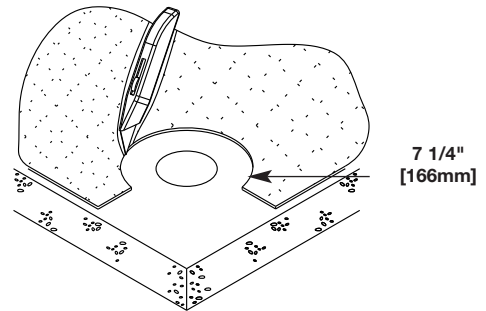
**Step 1** Layout and locate position of hole(s).

**CAUTION:** Minimum spacing of 2ft on center and not more than one device per each 65 square feet of floor area in each span.

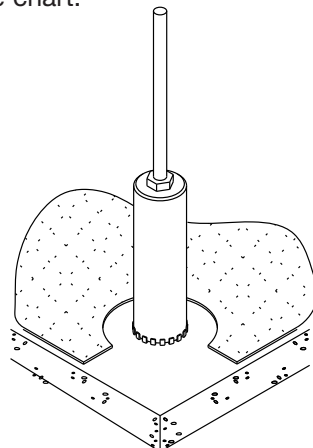


**CAUTION:** Be certain to locate hole at least 6" [152mm] from any wall or pillar to leave enough room for Poke-Thru cover assembly.

**Step 2** Remove 7 1/4" dia. [166mm] section from carpet or tile. Use template provided.



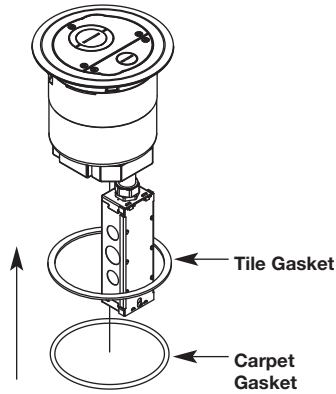
**Step 3** Create core hole according to the dimensions provided in the chart.



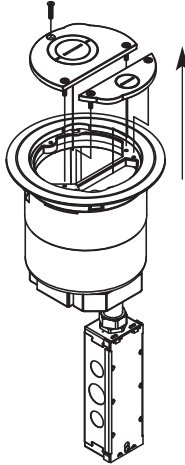
FLOOR TYPE	CORE SIZE (Min.)	CORE SIZE (Max.)
Covered Floors (Carpet, Tile or Wood)	6" [152mm]	6 1/8" [156mm]
Bare Concrete or Terrazzo	6 1/16" [154mm]	6 1/8" [156mm]

## INSTALLING COMPLETE ASSEMBLY

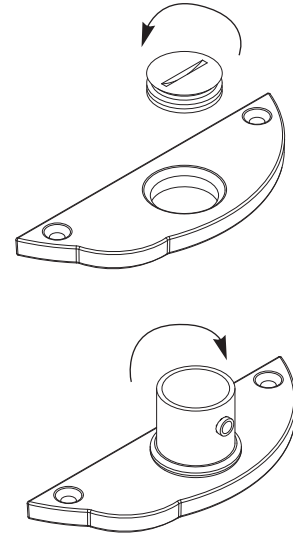
**Step 1** Place appropriate gasket around Poke Thru and slide under flange. Use flat foam gasket for tile applications or use round neoprene gasket for carpet applications.



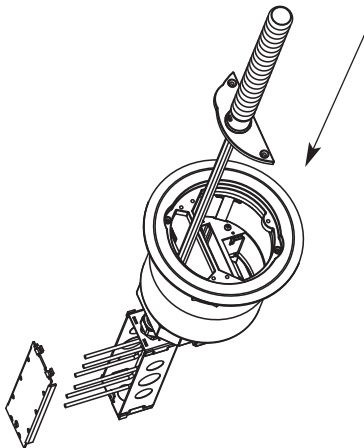
**Step 2** Remove cover plates by removing (5) 8-32 screws.



**Step 3** Remove 3/4" plug from small cover plate by rotating counter-clockwise using a large straight blade screwdriver. Install 3/4" conduit fitting (provided) into opening on large cover. Repeat procedure for 2" conduit fitting, on large cover plate. (provided)

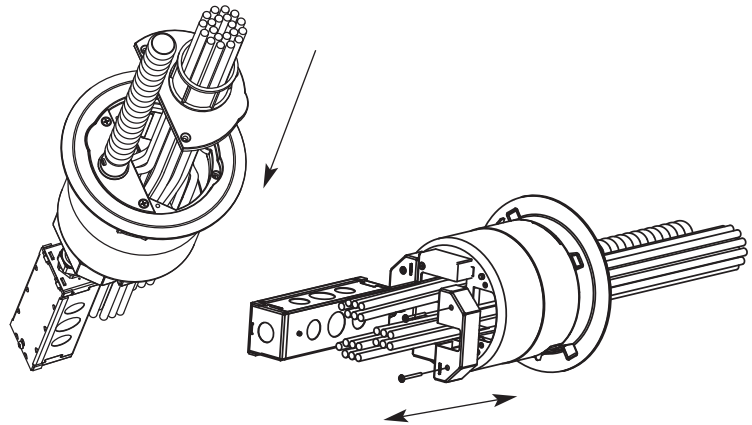


**Step 4** Feed 3/4" inch flexible conduit into 3/4" conduit fitting on cover plate. Feed power wires through small compartment and into the junction box. Make wiring connections in the junction box. Refer to copper cross section chart to determine quantity of wires to pass through each opening. Attach cover to the flange using (2) 8-32 x 3/8" screws.



**NOTE:** Splices must be made in junction box.

**Step 5** Feed data wires through larger compartment and through 2" conduit fitting on cover plate. Refer to copper cross section chart to determine quantity of cables to pass through each opening. Attach cover to the flange using (3) 8-32 x 3/8" screws.

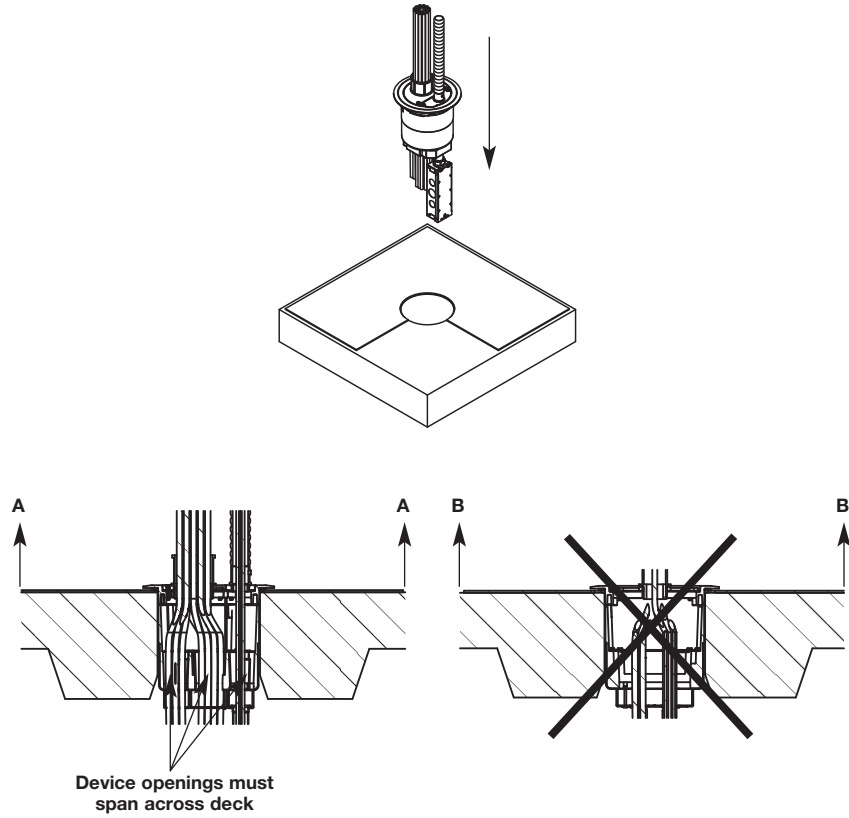


**NOTE:** If necessary remove Feed Plates to pull communications wires through Poke-Thru device. Replace Feed Plates when finished pulling wires.

**CAUTION:** To maintain fire classification, Feed Plates must be installed.

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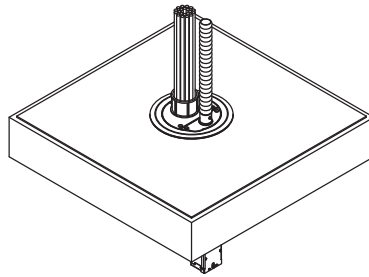
**Step 6** Orient Poke Thru so that the three channels span across the corrugations of the deck.  
Push Poke-Thru into floor.



**CAUTION:** Cover must be removed to rotate Poke Thru once it has been installed in the floor.

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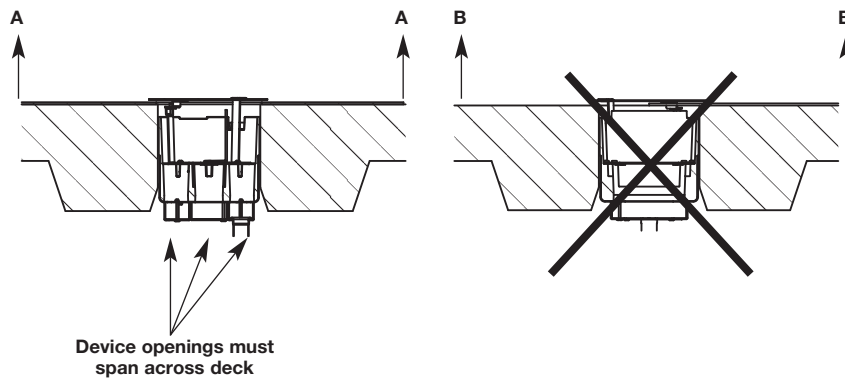
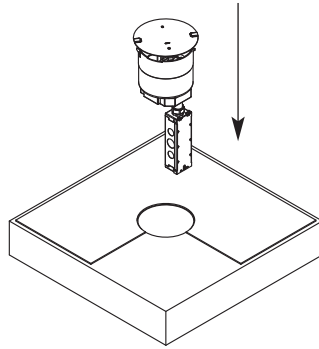
**Step 7** Installation complete.



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## INSTALLING STEM ASSEMBLY AND SEPARATE COVER

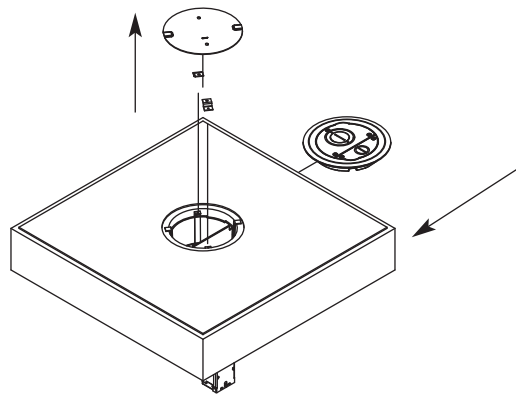
**Step 1** Orient Stem Assembly such that the three channels span across the corrugations of the deck. Insert Stem Assembly into core hole.



**CAUTION:** Cover must be removed to rotate Poke Thru once it has been installed in the floor.

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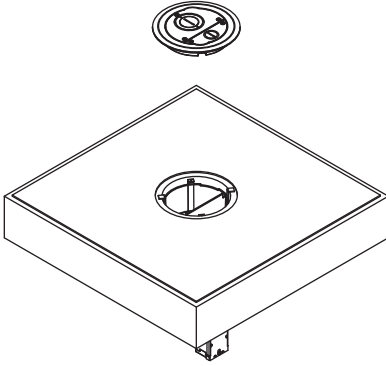
**Step 2** Remove disposable plate and (2) plate clips by removing the 8-32 screws. Install Flange using the (2) 8-32 x 1/2" Cap Head screws provided with the cover assembly.



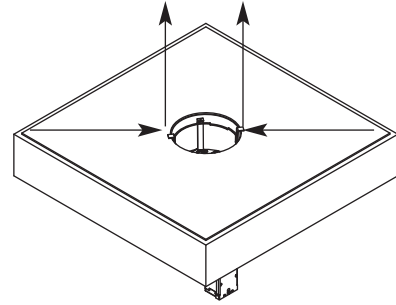
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## CONFIGURING FEED PLATES

**Step 1** Remove cover assembly from Poke Thru by removing (2) 8-32 screws and lifting cover off.

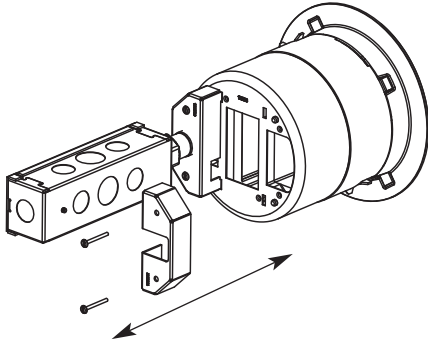


**Step 2** Remove Poke Thru from floor by bending tabs inward and pulling unit up.

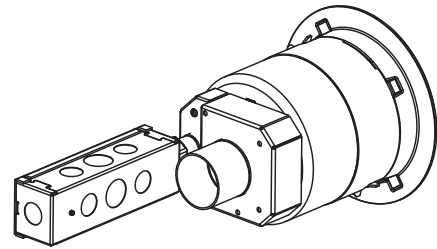


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**Step 3** Remove (4) 8-32 screws and pull off feed housings.



**Step 4** Use (4) 8-32 screws to install new feed plate or housing.



**CAUTION:** To maintain fire classification, Feed Plates must be installed.

**Evolution Series Poke-Thru Devices are UL Listed and Classified to U.S. and Canadian safety standards to the following conditions:**

The 6STC Poke-Thru Stem with the 6CFFTC Service Head Fitting, and the 6ATCFF factory assembled Poke-Thru device are for use with 1-, 1 1/2 -, or 2- hour rated unprotected reinforced concrete floors and 1-, 1 1/2 -, or 2- hour rated floors employing unprotected steel floor units and concrete topping (D900 Series Designs), or concrete floors with suspended ceilings. (Fire resistive designs with suspended ceilings should have provisions for accessibility in the ceiling area below the Poke-Thru fittings).

The assembled Poke-Thru stem and service fitting will not reduce the ratings of the floor assembly when the thickness and type of concrete (required for the specific rating) are within the specified limits and the fittings are installed as specified:

1. **Spacing** – Minimum of 2' [610mm] OC and not more than one unit per 65 sq. ft. [6 m<sup>2</sup>] of floor area in each span.
2. **Concrete** – Minimum thickness of structural concrete topping of 2 1/4" [57mm] over metal deck or a minimum 3" [76mm] thick reinforced concrete slab. Unit weight of concrete to be 110 to 155 pcf.
3. **Installation** – Mounted in a 6" [152mm] diameter hole in concrete per installation instructions accompanying the fittings. For use with power circuits, data and/or audio/visual cables as tabulated below:

**COPPER CROSS-SECTION**

	<b>POWER CHANNEL</b>	<b>DATA CHANNEL (CENTER)</b>	<b>DATA CHANNEL (OUTSIDE)</b>
Max Copper X-Section	.0815 sq. in. [52.6mm <sup>2</sup> ]	.0686 sq. in. [44.3mm <sup>2</sup> ]	.0187 sq. in. [12.1mm <sup>2</sup> ]
Max # Conductors	(10) 10 AWG	(176) 23 AWG	(48) 23 AWG

**NOTE:** When using conductor sizes other than listed above, the aggregate cross-sectional area of the copper conductors shall not exceed the cross-sectional areas listed.

The "TC" suffix letters indicate that the device may be installed on tile or carpet covered concrete floors.

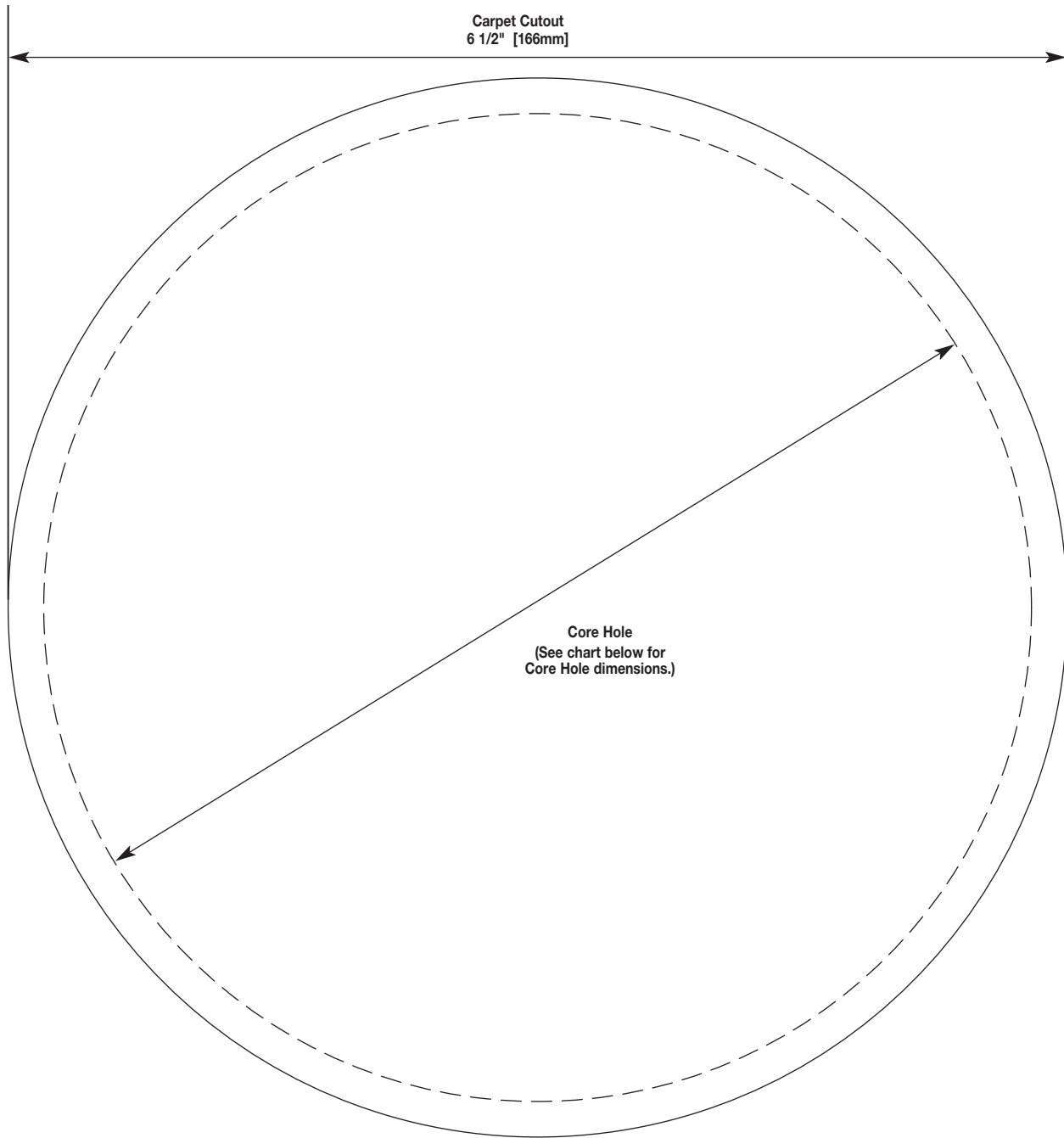
<b>Copper Cross Sectional Area of Commonly Used Conductors</b>	
<b>Size</b>	<b>Solid</b>
#24	.00032 sq. in. [2.0645mm <sup>2</sup> ]
#22	.00050 sq. in. [3.2258mm <sup>2</sup> ]
#14	.00323 sq. in. [2.08386mm <sup>2</sup> ]
#12	.00512 sq. in. [3.30321mm <sup>2</sup> ]
#10	.00815 sq. in. [5.25805mm <sup>2</sup> ]
#8	.01296 sq. in. [8.36127mm <sup>2</sup> ]

**NOTE:** Use above values for solid or stranded conductors.

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# Carpet Cutout Template



**CAUTION:** When printing copies of this template please be sure template is scaled correctly and is the correct size once it is printed.

FLOOR TYPE	CORE SIZE (Min.)	CORE SIZE (Max.)
Covered Floors (Carpet, Tile or Wood)	6" [152mm]	6 1/8" [156mm]
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**U.S. and International:**

60 Woodlawn Street • West Hartford, CT 06110  
1-800-621-0049 • FAX 860-232-2062 • Outside U.S.: 860-233-6251

**Canada:**

570 Applewood Crescent • Vaughan, Ontario L4K 4B4  
1-800-723-5175 • FAX 905-738-9721

