



Installation Instructions

FOR FFPT6 SERIES FURNITURE FEED POKE-THROUGHS

Catalog Numbers: FFPT6-ALM, FFPT6-BLK, FFPT6-BRS

 **WARNING** 
RISK OF SHOCK, DISCONNECT POWER BEFORE INSTALLATION.

 **CAUTION** 
Floor Box should be installed by a qualified electrician in accordance with national and local electrical codes.

IMPORTANT: Read all instructions before installing poke-through or cover.

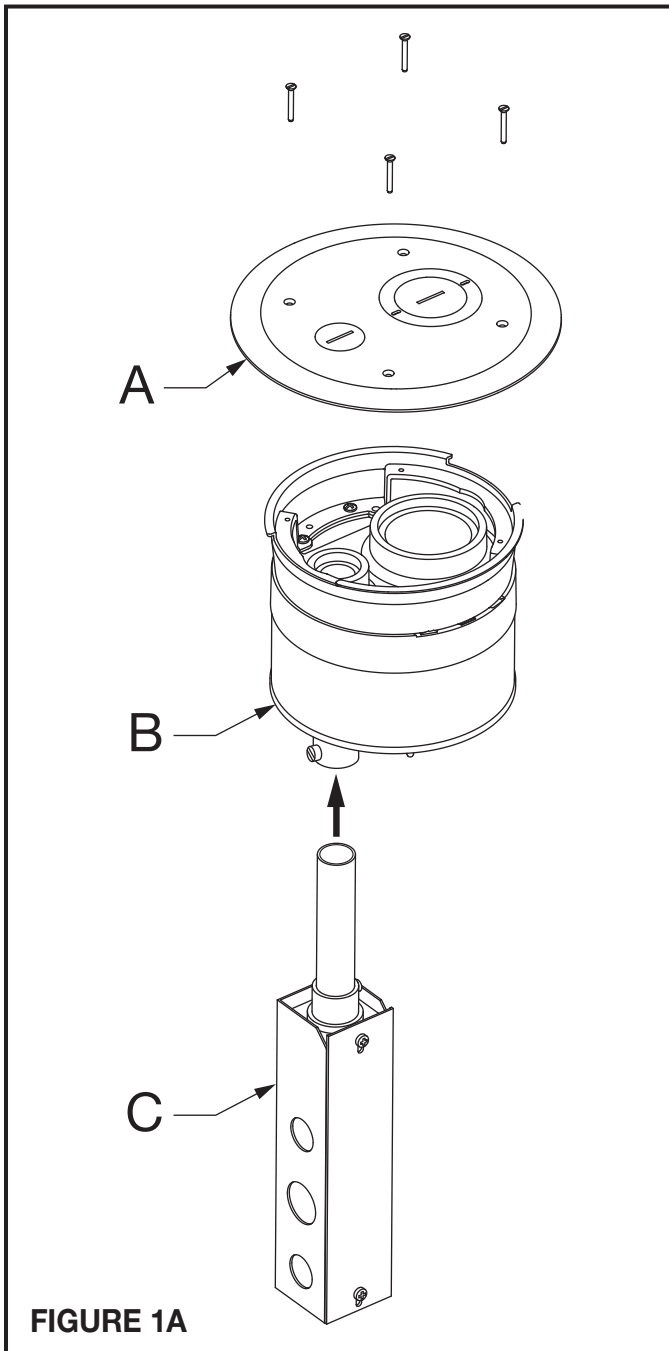


FIGURE 1A

PARTS LIST: (parts furnished)

- A. FFPT6-CVR-XXX Cover
- B. FFPT6 Poke-Through Body
- C. Junction Box with Conduit

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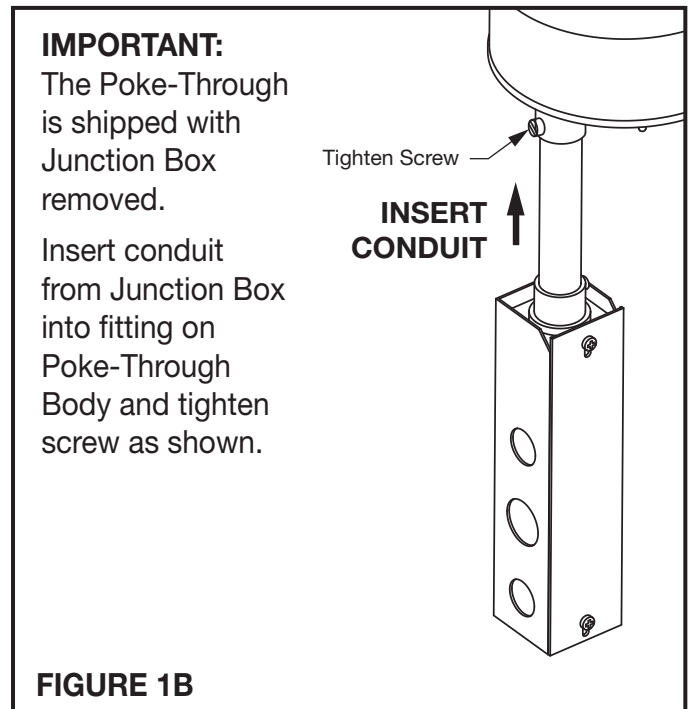


FIGURE 1B

1.0 IMPORTANT NOTES:

- 1.1 See product category "Outlet boxes and fittings" classified for fire resistance in the current "Underwriters Laboratories, Inc." "Fire resistance Directory" for the fire resistance classification of the Thomas & Betts Poke-Through System. Suitable for use in air handling spaces in accordance with the National Electrical Code.
- 1.2 **POKE-THROUGH BODY IS ONLY TO BE USED WITH A THOMAS & BETTS COVER LISTED FOR USE WITH THIS UNIT.** The system is designed to maintain the hourly rating of concrete floors having a fire rating of 1, 1-1/2 and 2 hours, only when installed in accordance with these instructions.
- 1.3 **TO MAINTAIN FIRE RESISTANCE CLASSIFICATION RATING,** a complete Thomas & Betts Poke-Through including the Poke-Through Body and Poke-Through Cover must be installed.
- 1.4 **CONCRETE THICKNESS Min/Max:**
 - 1-HOUR RATED FLOOR:** 2-1/4" min over top of deck (or 3" thick reinforced concrete slab) to a maximum of 7-1/2".
 - 2-HOUR RATED FLOOR:** 3-1/4" min over top of deck (or 4" thick reinforced concrete slab) to a maximum of 7-1/2".
- 1.5 **SPACING:** Minimum of 2 ft. on center and not more than one device per 65 sq. ft. of floor area in each span (See Figure 2).
- 1.6 **INSTALLATION:** Mount in a 6" diameter core-drilled hole in accordance with these instructions.
- 1.7 **FLOOR COVERINGS:** When installed in accordance with these instructions, this Poke-Through is fire rated for carpet and wood covered concrete floors, tile floor coverings up to 3/4" maximum thickness, and linoleum floor coverings up to a maximum of 1/8" thickness. Poke-Through may be installed directly on concrete when no floor covering is planned.
- 1.8 **MAXIMUM CAPACITY OF COPPER CONDUCTORS IN POWER AND DATA THROUGH-HOLES.**

	POWER (3/4" through-hole)	*Data (2" through-hole)
Maximum Cross Sectional Area of Copper in each through-hole	0.0815 sq. in.	0.0960 sq. in.

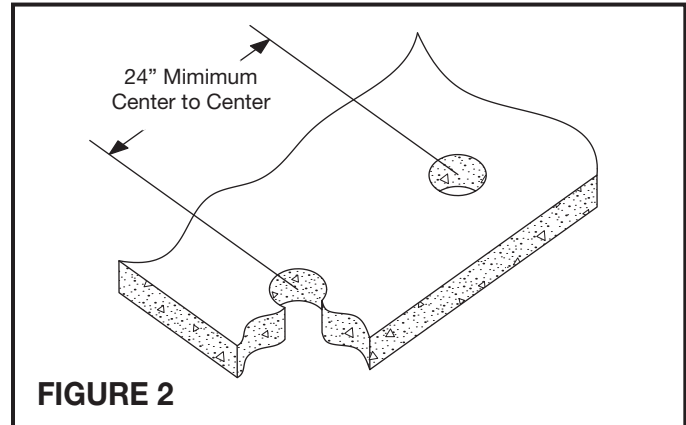
* Power conductors may be substituted for Data as long as cross-sectional area is not exceeded.

Copper Cross Sectional Area of Commonly used Conductors.	
SIZE AWG	SOLID or STRANDED (SQ. IN.)
#24	0.00032
#23	0.00040
#22	0.00050
#14	0.00323
#12	0.00512
#10	0.00815
#8	0.01296

2.0 LAYOUT AND LOCATION OF HOLE:

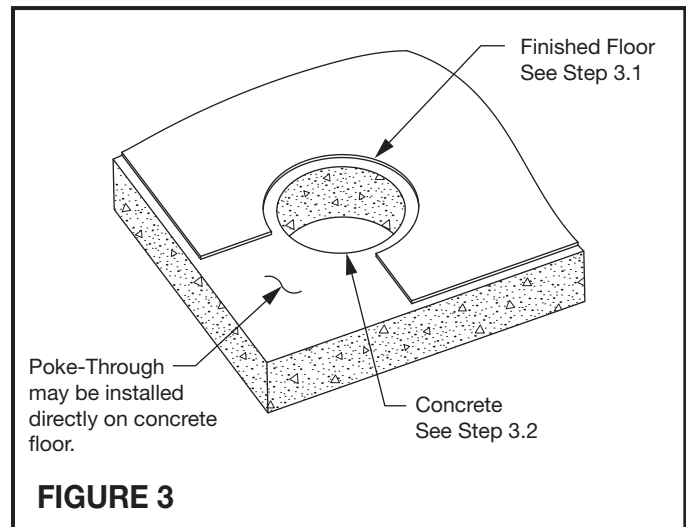
- 2.1 See SPACING in Step 1.5.

NOTE: Be certain to drill the holes at least 6" away from any wall or pillar so it leaves enough room for the installation of the Poke-Through and Cover.



3.0 Drill Hole in Floor:

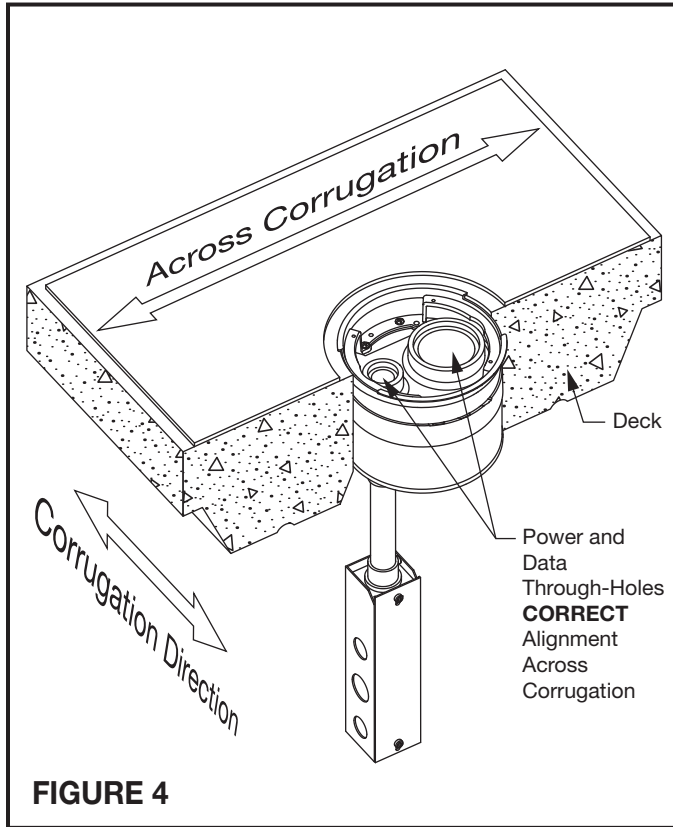
- 3.1 Install or cut hole from Carpet, Wood, Tile or Linoleum Floor. Use template provided with cover instructions. (Poke-Through may be installed directly on concrete floor if no finished floor is planned).
- 3.2 Core Drill a 6" Diameter Hole. Actual hole size may be 6-1/8" diameter due to drill bit and jobsite construction tolerance (See Figure 3).



4.0 Install Poke-Through into Hole:

4.1 **IMPORTANT:** Power and Data Through-Holes must span **ACROSS** Corrugation in the Deck to maintain fire classification. Poke-Through cannot be rotated after inserting into hole.

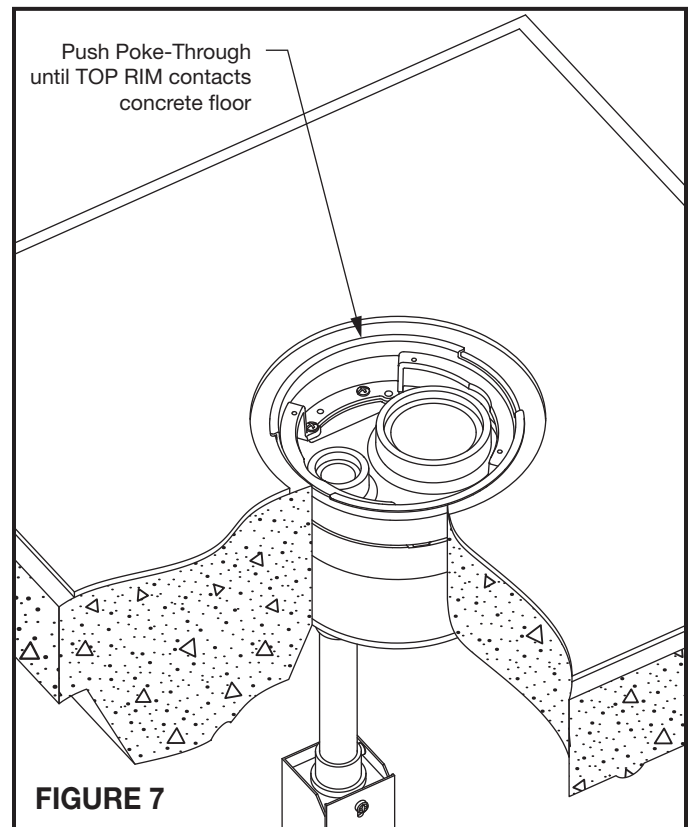
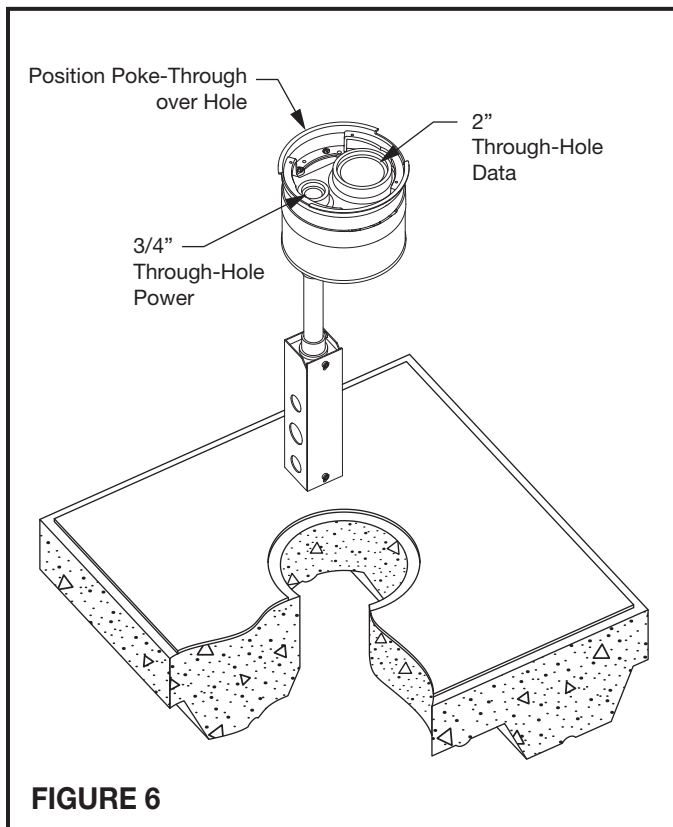
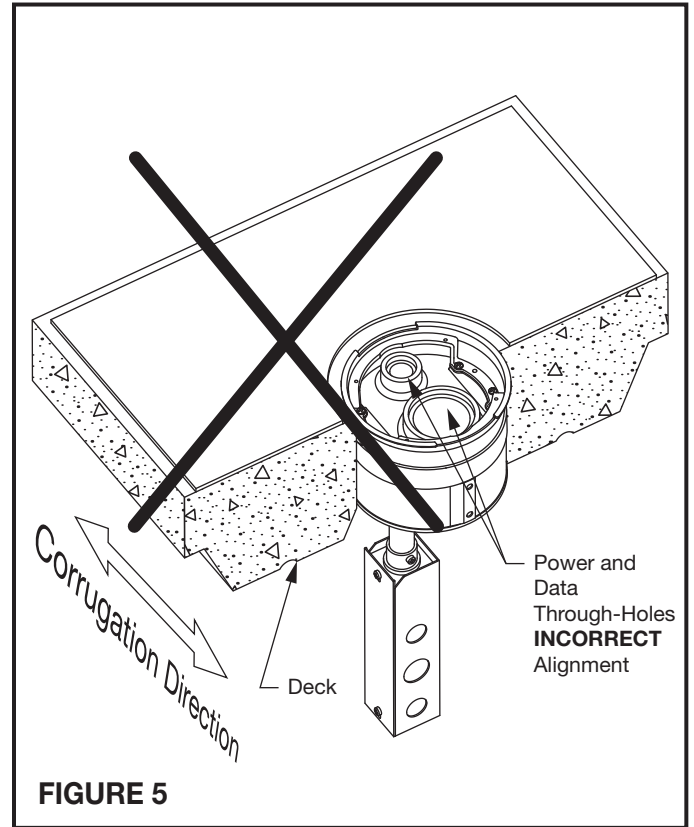
4.2 **Figure 4** shows **CORRECT** alignment of Power and Data



Through-Holes **ACROSS** Corrugation in Deck.

Figure 5 shows **INCORRECT** alignment of Power and Data Through-Holes.

4.3 Locate Poke-Through over hole (according to notes 4.1 and 4.2) insert and push down until **TOP RIM** contacts the concrete floor (See Figures 6 and 7).



5.0 Cover Assembly:

- 5.1 ABANDONMENT/TEMPORARY COVER PT6-AC (sold separately). Install to protect poke-through and devices UNTIL AFTER construction debris is cleared. Remove and install FFPT6 cover to activate Poke-Through (See Figure 8).
- 5.2 FFPT6-CVR-XXX COVER. Install per instructions furnished with cover (See Figure 8).

6.0 Remove Plugs:

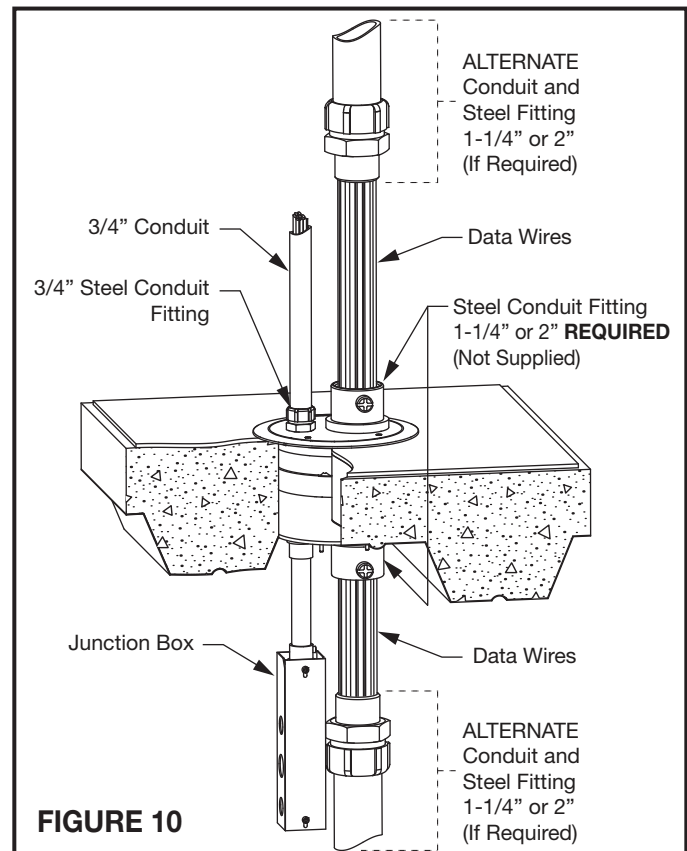
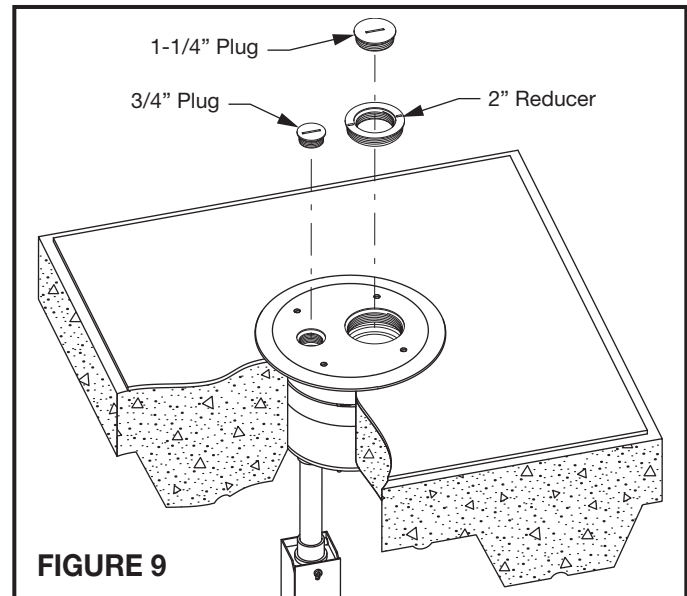
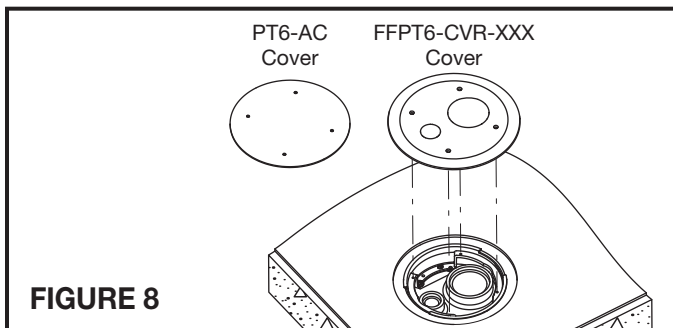
- 6.1 Remove 3/4" power plug and combination 1-1/4" plug and 2" reducer from cover (See Figure 9).

7.0 Completing Final Installation:

- 7.1 Install 3/4" conduit and steel fitting (**conduit fittings NOT furnished but are REQUIRED**) on top of FFPT6 cover. Feed power wires through 3/4" conduit, through poke through and into junction box. Make connections in junction box as required by local and national electrical codes. Refer to conductor cross section chart (Section 1.8) to determine maximum quantity of wires allowed. (See Figure 10). Use thread sealer on all plugs and fittings to block water entry.
- 7.2 Install 1-1/4" or 2" steel conduit fittings (**conduit fittings NOT furnished but are REQUIRED**) into top and bottom data openings on poke through. Data wires must be fed through the larger 1-1/4" or 2" steel conduit fittings. Additionally, conduit may be used to route data wires. Refer to conductor cross section chart (Section 1.8) to determine maximum quantity of wires allowed. (See Figure 10). Use thread sealer on all plugs and fittings to block water entry.

IMPORTANT: Steel Conduit Fittings are required on Data openings to maintain UL fire rating. Steel Conduit Fittings and conduit are required on power opening to maintain UL Fire Rating. (See Section 1.4 for fire rating).

Conduit and steel conduit fittings are NOT furnished with the FFPT6 poke through EXCEPT for that used to connect Junction Box to bottom of poke through. Conduit is NOT REQUIRED for data, but may be used if needed for job requirements. (See Figure 10).



WARRANTY: Thomas & Betts sells this product with the understanding that the user will perform all necessary tests to determine the suitability of this product for the user's intended application. Thomas & Betts warrants that this product will be free from defects in materials or workmanship for a period of two (2) years following the date of purchase. Upon prompt notification of any warranted defect, Thomas & Betts will, at its option, repair or replace the defective product. Misuse, misapplication or modification of Thomas & Betts Products immediately voids all warranties.

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