WIREMOLD

La legrand

RC7 Poke-Thru Series INSTALLATION INSTRUCTIONS

Installation Instruction No.: 1 001 628 R2 - Updated April 2005

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

All electrical products may represent possible shock or fire hazard if improperly installed or used. Wiremold electrical products are UL Listed to U.S. and Canadian safety standards, made for interior use only, and should be installed in conformance with current local and/or the National Electrical Code.

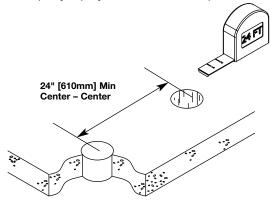
IMPORTANT – PLEASE READ ALL INSTRUCTIONS BEFORE BEGINNING.

Products Covered: RC7STC, RC7ATC, RC7ATJTC, RC7CTC, RC7CTJTC, and RC7SHTC RC7ATC-LJB, RC7ATJTC-LJB, RC7ATCLJB25 and RC7ATJTCLJB25

CAUTION: Do Not operate tile stripper 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.

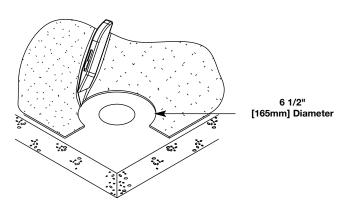
Step 1. Layout and locate position of hole(s).

CAUTION: Holes shall be spaced a minimum of 2' [610mm] on center and not more than one hole per each 65 sq. ft. [6 sq. m] of floor area in each span.



NOTE: Be certain to drill hole at least 4" [102mm] from any wall or pillar to leave enough room for Poke-Thru cover assembly.

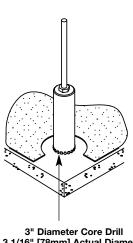
Step 2. Remove 6 1/2" [165mm] section from carpet or tile. Use template provided.



For Tile Applications up to a Maximum of 3/4" [19.1mm] Thick.

NOTE: For tile thickness greater than 3/4" [19.1mm] consult factory.

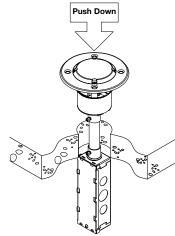
Step 3. Core drill hole.



3 1/16" [78mm] Actual Diameter

Step 4. Stem Assembly:

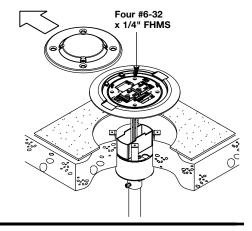
Catalog No. RC7STC. Insert stem into hole.



CAUTION: Poke-Thru cannot be rotated in hole after insertion into floor.

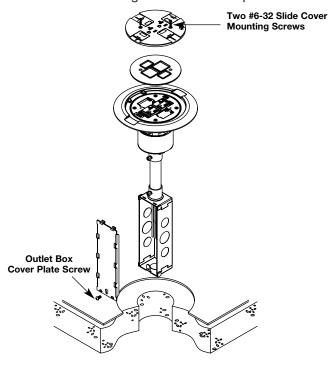
Step 5. Cover Assembly:

Catalog No. RC7CTC or RC7CTJTC. Remove disposable plate and replace with carpet/tile flange. Install with four #6-32 x 1/4" [6.4mm] FHMS.

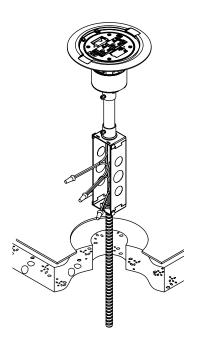


Complete Assembly:

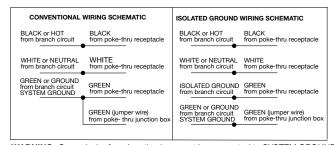
Step 6. Cat. Nos. RC7ATC or RC7ATJTC Wire the Poke-Thru device. (Can be completed above floor.)
Refer to wiring schematic in Step 8.



Step 7. Wire the power circuit.



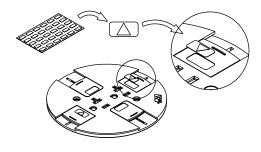
Step 8. Connect Poke-Thru conductors according to required device configuration. See schematic below.



WARNING: Ground wire from junction box must be connected to SYSTEM GROUND.

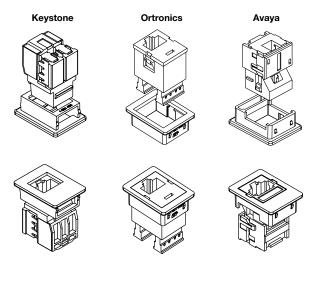
CAUTION: Receptacle mounting means not grounded. Grounding wire connection required. For isolated ground wiring; connect ground leads to a separate isolated grounding conductor. See NEC 250-146(d).

Step 9. If circuit is connected to an isolated ground, apply IG icon on receptacle slide as shown.

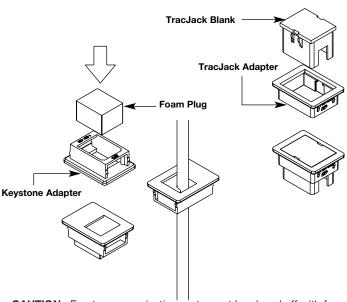


NOTE: The orange triangle shall only be placed on devices that are wired for isolated ground. See NEC 250-146(d).

Step 10. Wire and snap communication jacks in adapters as shown.



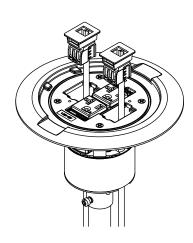
Step 11. For cable pass-through or empty communication port, install foam block in keystone adapter. Pass cable through adapter adjacent to foam plug. Close off non-utilized Ortronics® adapters with plastic TracJack® blank.



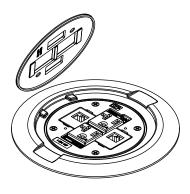
CAUTION: Empty communication ports must be closed off with foam blocks or TracJack blanks to maintain fire classification.

NOTE: To maintain UL Fire Classification, all communication modules or blank inserts (factory or customer supplied) must be UL Listed communication circuit accessories, and must fit securely in the supplied communication brackets with no visible openings between the module and bracket. Supplied foam plugs must be used when passing cables through the communication openings.

Step 12. Snap communication jacks or communication port plugs into flange.

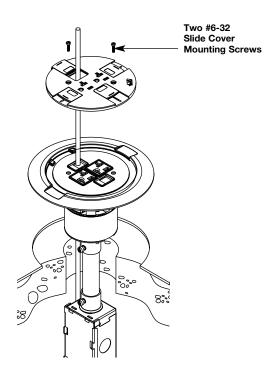


Step 13. Align gasket over receptacle and press bead into flange channel.



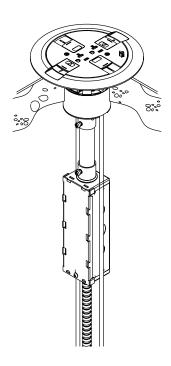
CAUTION: Gasket must be set in place to provide scrub water seal.

Step 14. Attach slide cover with two #6-32 screws. Pass-through cabling must pass through internal gasket and data slide if used.

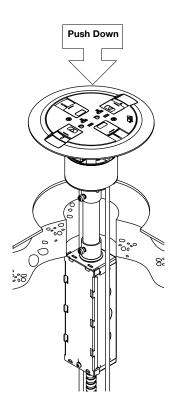


CAUTION: Do not over tighten cover mounting screws.

Step 16. Installation complete.



Step 15. Push Poke-Thru unit into concrete to complete installation.

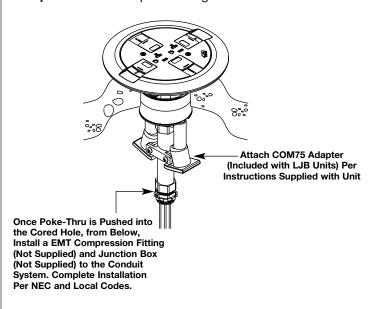


CAUTION: Poke-Thru cannot be rotated in hole after insertion into floor.

RC7 Poke-Thru Less Junction Box Cat. Nos. RC7ATC-LJB, RC7ATJTC-LJB, RC7ATCLJB25 and RC7ATJTCLJB25

(Applies to installations in the City of Chicago or other locations where local codes require the use of a communication adapter, EMT compression fittings, and a junction box suitable for use in environmental air spaces.)

Step 17. Follow steps 1 through 15 for installation.



The RC7TC Series Poke-Thru Device is UL Listed and Classified to U.S. and Canadian safety standards to the following conditions:

The RC7STC Poke-Thru Stem with the RC7CTC Service Head Fitting or the RC7KTC Conversion Kit Assembly, the RC7ATC factory assembled Poke-Thru device, and the RC7APTC Abandonment Fitting 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 or the abandonment fittings 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 sq. m] 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 3" diameter core-drilled hole in concrete per installation instructions accompanying the fittings or abandonment fittings. For use with power circuits, data and/or telephone cables as tabulated below:

POKE-THRU FITTING TYPE	SERVICE FITTING TYPE	POWER CONDUCTORS (A)	COMMUNICATION CONDUCTORS (B)
RC7ATC	-	3 (.01536 sq in.) [9.910mm²]	16 (.00800 sq. in.) [5.162mm²]
RC7STC	RC7CTC	3 (.01536 sq in.) 9.910mm²]	16 (.00800 sq. in.) [5.162mm²]
RC7STC	RC7KTC	3 (.01536 sq in.) 9.910mm²]	16 (.00800 sq. in.) [5.162mm²]

The "TC" suffix letters indicate that device may be installed on tile or carpet covered concrete floors. All catalog numbers may have a "TJ" suffix to indicate units supplied with Ortronics, Inc. communication modules and accessories. The "LJB" suffix letters indicate units supplied without a junction box. The "25" suffix numbers indicate units supplied with 25 foot receptacle leads.

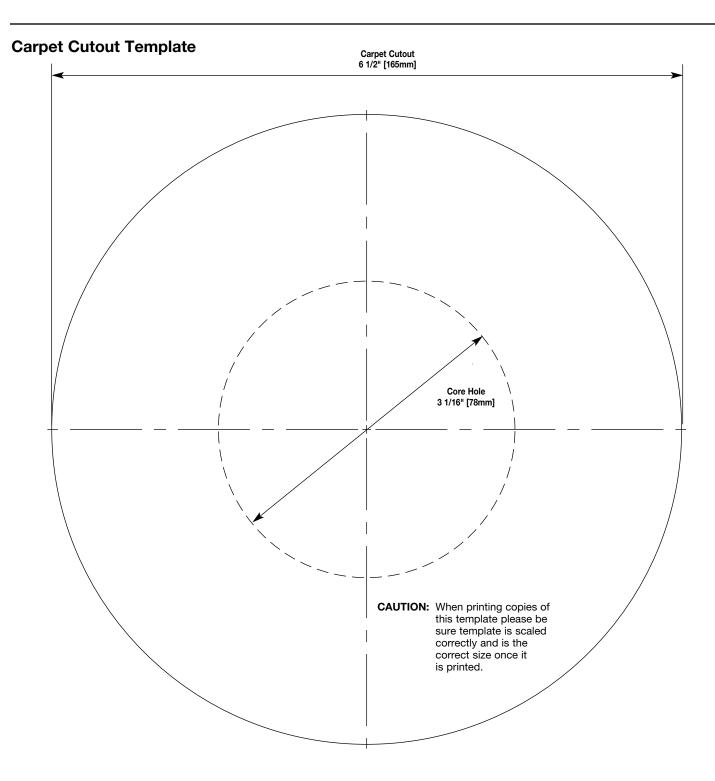
- (A) Maximum number of No. 12 AWG Type THHN conductors in power compartment of poke-thru fitting.
- (B) Maximum number of 22 AWG conductors in low voltage compartment of Poke-Thru fitting (4-pair cables have (8) conductors). When conductors larger than No. 22 AWG are used, the aggregate cross-sectional area of the copper conductors shall not exceed the aggregate cross-sectional area of the 22 AWG conductors permitted in the low voltage compartment.

Copper Cross Sectional Area of Commonly Used Conductors				
Size	Solid			
#24	.00032 sq. in. [.20645mm ²]			
#22	.00050 sq. in. [.32258mm ²]			
#14	.00323 sq. in. [2.08386mm ²]			
#12	.00512 sq. in. [3.30321mm ²]			
#10	.00815 sq. in. [5.25805mm ²]			
# 8	.01296 sq. in. [8.36127mm ²]			

NOTE: Use above values for solid or stranded conductors.

For use on carpet covered and tile floors up to 3/4" [19.1mm] thick.

CAUTION: Receptacle supplied with this Poke-Thru is not suitable for direct field wiring. Contact manufacturer for replacement. Field modifications will void UL Listing and Classification. Replacement receptacle is limited to this manufacturers' Catalog No. RC37REC or RC37REC-25.







Wiremold / Legrand

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