

# RC4 SERIES™ POKE-THRU DEVICES



RC4 Series™ Surface Style Poke-Thru Devices provide two (2) 20 Amp duplex power devices and four (4) ports of communication.

## CODE REFERENCE

**cULus Listed Metallic Outlet Boxes:**  
File E2961 Guide QCIT.

**cULus Listed Nonmetallic Outlet Boxes & Fittings Classified for Fire Resistance:**  
File R8209 Guide CEYY.

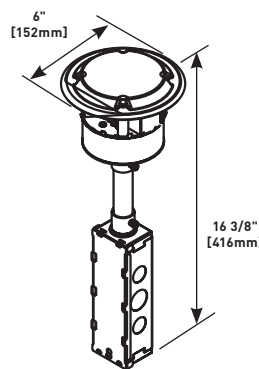
Meets Article 300.21, 300.22(C) & 314 of NEC.



RC4 Series Poke-Thru Device (RC4CTCBS).

## RC4 Series Poke-Thru Devices Ordering Information

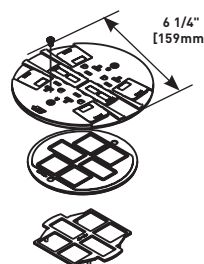
### RC4STC Insert Assembly with Disposable Plate



Comes complete with four prewired 20A receptacles. Use RC4STC with RC4C Series Covers.

**NOTE:** If wiring for Isolated Ground, attach orange IG label (supplied).

### RC4SHTC Slide Holder



Nonmetallic slide holder assembly. Available in gray (RC4SHTCGY), black (RC4SHTCBK), ivory (RC4SHTCVY), nonmetallic brass (RC4SHTCBS), and nonmetallic aluminum (RC4SHTCAL).

**NOTE:** Assembled with scrub water gasket. For use on tile or carpet floors.

#### HOLE DIAMETER

Minimum:	4" [102mm]
Maximum:	4 1/8" [105mm]

## COLOR OPTIONS

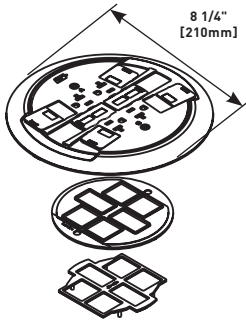


RC4 Series parts are available in gray "GY", black "BK", brushed aluminum "AL", brass "BS", ivory "VY", brass-colored finish "AB", and an aluminum-colored finish "AA".

# RC4 SERIES™ POKE-THRU DEVICES

## RC4 Series Poke-Thru Devices Ordering Information

### RC4CTC Finish Flange & Slide Holder Assembly

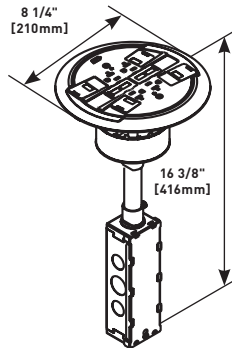


Flange available in painted gray (RC4CTCGY), black (RC4CTCBK), ivory (RC4CTCVY) or brushed metal finished in aluminum (RC4CTCAL), and brass (RC4CTCBS). Slide covers match the painted flange colors: gray, black, and ivory. Aluminum and brass flanges shipped with black slide cover. Brass flange also available with nonmetallic brass colored slide holder (RC4CTCAB). Aluminum flange also available with

nonmetallic aluminum color slide holder (RC4CTCAA). Includes Wiremold Open System unloaded adapters to accept four discrete keystone connectors from most manufacturers. Unit also includes Ortronics TracJack Mounting adapters and Ortronics Series II Communication Housing. Modular jacks sold separately.

**NOTE: Assembled with scrub water gasket. For use on tile or carpet floors.**

### RC4ATC Assembled Poke-Thru Device



Unit includes four prewired 20A receptacles. Each duplex receptacle is wired as a separate circuit. The duplex can be wired as a standard receptacle or isolated ground. Finish flange available in gray (RC4ATCGY), black (RC4ATCBK), ivory (RC4ATCVY), or brushed metal finishes in aluminum (RC4ATCAL), and brass (RC4ATCBS). Aluminum and brass flanges shipped with black slide cover. Brass flange also available with nonmetallic brass colored slide holder (RC4ATCAB). Aluminum

flange also available with nonmetallic aluminum color slide holder (RC4ATCAA). Includes Wiremold Open System unloaded adapters to accept four discrete keystone connectors from most manufacturers. Unit also includes Ortronics TracJack Mounting adapters and Ortronics Series II Communication Housing. Modular jacks sold separately.

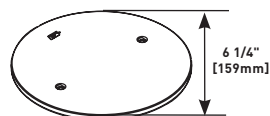
**NOTE: Assembled with scrub water gasket. For use on tile or carpet floors.**

**NOTE: If wiring for Isolated Ground, attach orange IG label (supplied).**

**NOTE: AMD8 Series Poke-Thru Devices require a 4" [102mm] diameter hole.**

Not designed to work with bare concrete or terrazzo. Floor covering thickness 1/8" minimum.

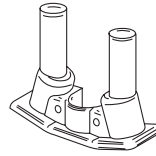
### RC4APTC Abandonment Plate



Available in black (RC4APTGBK), gray (RC4APTGGY), painted brass (RC4APTGBS), and ivory (RC4APTIVY).

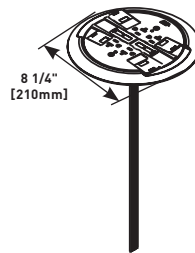
**NOTE: To abandon the RC4 Series Poke-Thru Device, the internal gasket, duplex receptacle, and communication modules must not be removed in order to maintain UL Classification. Also the stem must remain in the core-drilled hole.**

### COM75 Communication Adapter



Provides two 3/4" trade size threaded openings to accommodate conduit connections.

### RC4KTCG Retrofit Kit



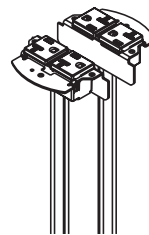
Used to upgrade existing installations of RC4 Poke-Thru Devices on carpet floors to meet scrub water requirements. Includes two 20A duplex receptacles that can be wired as a standard duplex or isolated ground. Also includes scrub water finish flange and slide holder assembly. Flange available in painted black (RC4KTCBK), gray (RC4KTCGY), ivory (RC4KTCVY), and brushed metal finishes in aluminum (RC4KTCAL), and brass

(RC4KTCBS). See installation instructions with retrofit kit for complete installation details.

**NOTE: Existing installations of RC4 Poke-Thru Devices are not required to be upgraded to meet carpet scrub water requirements, if manufactured prior to June 2003.**

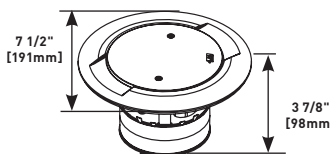
**NOTE: RC4 Series Poke-Thru Devices require a 4" [102mm] diameter hole. Not designed to work with bare concrete or terrazzo. Floor covering thickness 1/8" minimum.**

### RC4REC2, RC4REC2-25 Replacement Receptacles



Two prewired 20A duplex receptacles can be wired as standard duplex or isolated ground. Available only in black. See installation instructions with replacement receptacle for complete installation details. RC4REC2-25 is available with 25 foot [7.62m] leads.

### ABPLUG4 Abandonment Plug Assembly



Complete plug assembly for abandoning an open 4" [102mm] diameter hole. Assembly includes intumescent fire-stop material to maintain the fire classification of the floor, integral retainer ring to prevent the unit from pulling up through the floor, and a black die-cast aluminum cover.

integral retainer ring to prevent the unit from pulling up through the floor, and a black die-cast aluminum cover.

# RC4 Series Ordering Information

**Catalog No./Item      Description/Specifications**

Catalog Number Explanation RC4ATCAL			
<b>RC4</b> Identifies Poke-Thru Series	<b>A</b> Identifies Assembled Unit (A) or Cover (C)	<b>TC</b> Identifies that Unit is Approved for Tile and Carpet Floors	<b>AL</b> Identifies Color of Finish Flange

**RC4ATCGY  
RC4ATCBK  
RC4ATCAL  
RC4ATCBS  
RC4ATCVY  
RC4ATCAB**

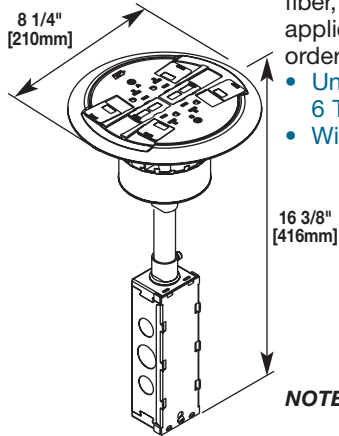
**Assembled Unit** – Unit includes four prewired 20A receptacles. Each duplex receptacle is wired as a separate circuit. The duplex can be wired as a standard receptacle or isolated ground. Finish flange available in gray (GY), black (BK), ivory (VY), or brushed metal finishes in aluminum (AL), and brass (BS). Aluminum and brass flanges shipped with black slide cover. Brass flange also available with nonmetallic brass colored slide holder (AB). Wiremold open system unloaded inserts to accept four discrete keystone connectors from most manufacturers are provided. Other 2A Activate™ inserts for fiber, coaxial, audio, and video applications can be ordered separately.

- Unit also includes four Category 6 TechChoice™ connectors.
- Wiremold Open System Inserts.

ORT

P&S

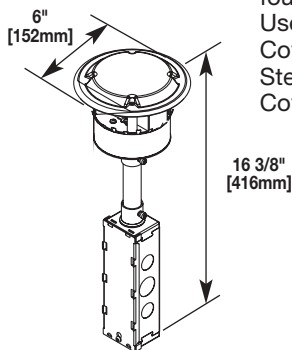
OPEN



**NOTE:** Assembled with scrub water gasket. For use on tile or carpet floors.

**RC4STC  
RC4SRTTC**

**Insert Assembly with Disposable Plate** – Comes complete with four prewired 20A receptacles. Use RC4STC with RC4C Series Covers. Use RC4SRTTC Stem with RC4CRT Series Covers (Ortronics).



**NOTE:** See page 18 for specifications.

**Catalog No./Item      Description/Specifications**

Catalog Number Explanation RC4ARTTCAL				
<b>RC4</b> Identifies Poke-Thru Series	<b>A</b> Identifies Assembled Unit (A) or Cover (C)	<b>RT</b> Designates Unit Includes Ortronics Workstation Connectivity Bezels	<b>TC</b> Identifies that Unit is Approved for Tile and Carpet Floors	<b>AL</b> Identifies Color of Finish Flange

**RC4ARTTCGY  
RC4ARTTCBK  
RC4ARTTCAL  
RC4ARTTCBS**

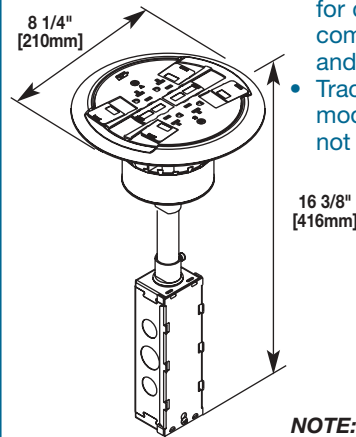
**Assembled Unit** – Unit includes four prewired 20A receptacles. Each duplex receptacle can be wired as standard duplex or isolated ground. Flange available in painted gray (GY), black (BK), or brushed metal finishes in aluminum (AL) and brass (BS). Slide covers match the painted flange colors: gray and black. Aluminum and brass flanges shipped with black slide cover.

- Unit also includes Ortronics TracJack mounting bezels, four blank TracJack inserts for closing off unused communication openings, and Series II bezels.
- TracJack and Series II modular inserts not included.

ORT

P&S

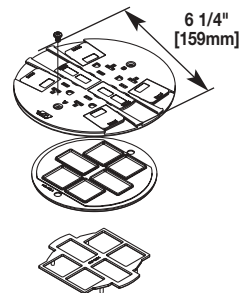
OPEN



**NOTE:** Assembled with scrub water gasket. For use on tile or carpet floors.

**RC4SHTCBK  
RC4SHTCGY  
RC4SHTCBS  
RC4SHTCVY**

**Nonmetallic Slide Holder Assembly** – Available in black (BK), gray (GY), ivory (VY), and nonmetallic brass (BS).



**NOTE:** Assembled with scrub water gasket. For use on tile or carpet floors.

## Flush Poke-Thru Series Specifications

### Copper Cross Section:

The copper cross-sectional area determines the amount of wire fill capacity in a poke-thru device. Unlike other wire and cable management systems that utilize wire fill capacity, a poke-thru device is UL tested under fire conditions to determine the maximum amount of copper conductors that will pass through a poke-thru device, while maintaining the fire-rating of the floor assembly. All Walker Flush Style Devices are UL Classified to U.S. and Canadian safety standards (see complete marking on product) to accommodate at a maximum rating as follows:

#### RC7 SERIES

**Maximum Allowable Copper Cross-Sectional Area:**

**RC7 Power Compartment Only = .01536 sq. in. [9.91mm<sup>2</sup>]**

**RC7 Each Communication Compartment Only = .0040 sq. in. [2.58mm<sup>2</sup>]**

**NOTE:** The RC7 Series requires a 3" [76mm] cored hole.  
(American made core bit having an outside diameter of 3 1/16" [78mm].)

#### RC9 SERIES

**Maximum Allowable Copper Cross-Sectional Area:**

**RC9 Power Compartment Only = .01536 sq. in. [9.91mm<sup>2</sup>]**

**RC9 Each Communication Compartment Only = .0040 sq. in. [2.58mm<sup>2</sup>]**

**NOTE:** The RC9 Series requires a 3" [76mm] cored hole.  
(American made core bit having an outside diameter of 3 1/16" [78mm].)

#### AV3 SERIES

**Maximum Allowable Copper Cross-Sectional Area:**

**AV3 Power Compartment Only = .01536 sq. in. [9.91mm<sup>2</sup>]**

**AV3 Communication Compartment Only = .01938 sq. in. [12.503mm<sup>2</sup>]**

**NOTE:** The AV3 Series requires a 4" [102mm] cored hole.  
(American made core bit having an outside diameter of 4 1/16" [103mm].)

#### RC9AMD SERIES

**Maximum Allowable Copper Cross-Sectional Area:**

**RC9AMD Communication Compartment = .01600 sq. in. [10.324mm<sup>2</sup>]**

**NOTE:** The RC9AMD Series requires a 3" [76mm] cored hole.  
(American made core bit having an outside diameter of 3 1/16" [78mm].)

#### AMD8 SERIES

**Maximum Allowable Copper Cross-Sectional Area:**

**AMD8 Communication Compartment Only = .03474 sq. in. [22.412mm<sup>2</sup>]**

**NOTE:** The AMD8 Series requires a 4" [102mm] cored hole.  
(American made core bit having an outside diameter of 4 1/16" [103mm].)

#### RC3 SERIES

**Maximum Allowable Copper Cross-Sectional Area:**

**RC3 Power Compartment Only = .01536 sq. in. [9.91mm<sup>2</sup>]**

**RC3 Each Communication Compartment Only = .008 sq. in. [5.16mm<sup>2</sup>]**

**NOTE:** The RC3 Series requires a 4" [102mm] cored hole.  
(American made core bit having an outside diameter of 4 1/16" [103mm].)

#### RC4 SERIES

**Maximum Allowable Copper Cross-Sectional Area:**

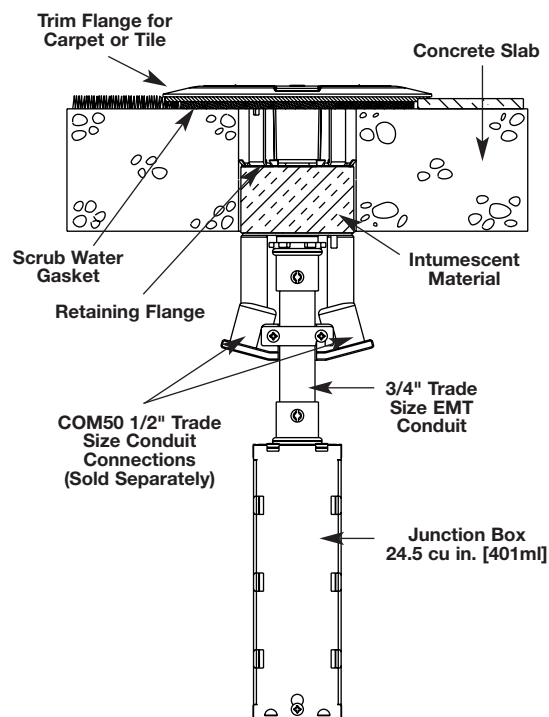
**RC4 Power Compartment Only = .03072 sq. in. [19.82mm<sup>2</sup>]**

**RC4 Each Communication Compartment Only = .008 sq. in. [5.16mm<sup>2</sup>]**

**NOTE:** The RC4 Series requires a 4" [102mm] cored hole.  
(American made core bit having an outside diameter of 4 1/16" [103mm].)

Copper Cross Sectional Area of Commonly Used Conductors		
Size	Solid	
#24	.00032 sq. in.	[.206mm <sup>2</sup> ]
#22	.00050 sq. in.	[.322mm <sup>2</sup> ]
#14	.00323 sq. in.	[2.083mm <sup>2</sup> ]
#12	.00512 sq. in.	[3.303mm <sup>2</sup> ]
#10	.00815 sq. in.	[5.258mm <sup>2</sup> ]
# 8	.01296 sq. in.	[8.361mm <sup>2</sup> ]

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



### Concrete Thickness Min/Max:

**1-HOUR RATED FLOOR – 2 1/4" [57mm] min over top of deck (or 3" [76mm] thick reinforced concrete slab) to a maximum of 7 1/2" [191mm].**

**2-HOUR RATED FLOOR – 3 1/4" [83mm] min over top of deck (or 4" [102mm] thick reinforced concrete slab) to a maximum of 7 1/2" [191mm].**

### Floor Coverings:

The poke-thru device is fire rated for carpet and wood covered concrete floors, tile floor coverings up to 3/4" [19.1mm] maximum thickness, and linoleum floor coverings up to a maximum of 1/8" [3.2mm] thickness. For other floor coverings not listed above, consult factory.

### IMPORTANT!

*The above maximum copper cross sectional area values are for each individual power and communication compartment. DO NOT add values together for any one compartment.*

**CAUTION!** Core bits vary in size from manufacturer to manufacturer:

- Use a 3" [76mm] American made core bit having an outside diameter of 3 1/16" [78mm]. Minimum hole diameter: 3 1/16" [78mm].
- Use a 4" [102mm] American made core bit having an outside diameter of 4 1/16" [103mm]. Minimum hole diameter: 4 1/16" [103mm].

**CAUTION:** These devices are suitable for 1, 1 1/2, and 2 hour rated floor assemblies as described in the UL Fire Resistance directory for each service.

These devices meet all UL scrub water requirements, but are not suitable for wet or damp locations, or other areas subject to saturation with water or other liquids such as commercial kitchens.