



CEYY.R8209 Outlet Boxes and Fittings Certified for Fire Resistance

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WIREMOLD CO

R8209

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WEST HARTFORD, CT 06110-2326 USA

Certain models may be suitable for use in air handling space.

Type 1376 abandonment parts. For use in 1, 1-1/2, 2, 3 or 4 hr rated unprotected reinforced concrete floors and in 1, 1-1/2, 2 or 3 hr rated floors employing unprotected steel floor units and concrete topping (D900 Series Designs), or concrete floors with suspended ceiling. (Fire resistance designs with suspended ceilings should have provisions for accessibility in the ceiling area below the poke-thru fittings.)

The assembled abandonment parts will not reduce the ratings of the floor assembly when the thickness and type of concrete (required for a specific rating) are within the specified limits and the device is installed as specified:

- 1. Concrete** — Minimum thickness of structural concrete topping of 2-1/4 in. over metal deck or a minimum 3 in. thick reinforced concrete slab. Unit weight of concrete to be 110 to 155 pcf.
- 2. Installation** — Mounted in 2 1/2 in. diameter core-drilled holed in concrete per instructions accompanying outlet boxes or abandonment parts and poke-thru fittings. For use with 25 pair maximum size telephone cable. The poke-thru fittings are for use in concrete floors as shown below:
- 3. Spacing** — Minimum of 2 ft OC and not more than one device per each 65 sq ft of floor area in each span.

Type 1376 abandonment parts. For use in 1, 1-1/2, 2, 3 or 4 hr rated unprotected reinforced concrete floors and in 1, 1-1/2, 2 or 3 hr rated floors employing unprotected steel floor units and concrete topping (D900 Series Designs), or concrete floors with suspended ceiling. (Fire resistance designs with suspended ceilings should have provisions for accessibility in the ceiling area below the poke-thru fittings.)

The abandonment parts will not reduce the ratings of the floor assembly when the thickness and type of concrete (required for a specific rating) are within the specified limits and the device is installed as specified:

- 1. Concrete** — Minimum thickness of structural concrete topping of 2-1/4, in. over metal deck or a minimum 3 in. thick reinforced concrete slab. Unit weight of concrete to be 110 to 155 pcf.
- 2. Installation** — Mounted in 2 1/2 in. diameter core-drilled holed in concrete per instructions accompanying abandonment parts
- 3. Spacing** — Minimum of 2 ft OC and not more than one device per each 65 sq ft of floor area in each span.

Types CE7A, RC700 flush outlet box and poke-through fittings or **Types RAP, RAP-2, RC-700-RAP-1** abandonment parts for use in 1, 1-1/2 or 2 hr rated unprotected, reinforced concrete floors, floors employing unprotected steel floor units and concrete toppings (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 poke-through fittings).

The assembled outlet box and poke-through fittings will not reduce the ratings of the floor assembly when the thickness and type of concrete (required for a specific rating) are within the specified limits and the fittings are installed as specified.

- 1. Concrete** — Minimum thickness of structural concrete topping of 2-1/4 in. on steel deck or a minimum 3 in. thick reinforced concrete slab. Unit weight of concrete to be 100 to 155 pcf.
- 2. Installation** — Mounted in 3 in. diameter core-drilled hole in concrete per installation instructions accompanying fittings or abandonment fittings. For use with power circuits, data cables and maximum 50 pair size telephone cables as tabulated below:

Poke Through Fitting Type	Service Fitting Type	Power Cond (a)	Tele/Data Cond (b)
CE7A or RC-700	-6 or -6A	8	—
	-A	3	100
	-MJ-8	3	16
RC-700-21 or -200	-RB	3	—
	-RR	6	—
	-RT	3	100

	-RTR	6	80
	-TB	—	130
	-TT	—	130
RC-700-200	-BPF-.50	13	—
	-BPF-.75	13	—
	-BPF-1.0	13	—
	-LAN-B	—	50
	-LAN-R	3	50
	-LAN-T	—	130
	-PF-.50/.50	13	—
	-PF-.75/.75	13	—
	-PF-.50/.75	13	—
	-TPF-.50	7	60
	-TPF-.75	7	60
RC-700-A-M	-2RJ45	—	32
	-DECORA	3	100
	-LAN I	—	32
	-LAN II	—	32
	-RJ45	—	32
	-SR	3	100
	-SU-8B	—	32

(a) Maximum number of No. 12 AWG Type THHN conductors in power compartment of poke-through fitting.

(b) Maximum number of No. 22 AWG conductors in low voltage compartment of poke-through fitting (25 pair telephone cable has 50 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 No. 22 AWG copper conductors permitted in the low voltage compartment.

A. Modular communication jack assembly Type LAN, MJ-8, RJ11 or RJ45 per communication opening.

B. Two 1/2 in. and one 3/4 in. flexible conduits and fittings per conduit adaptor plate opening may be used with Type RC-700-6 outlet boxes and fittings.

C. 1/2, 3/4, 1.0 in. flexible conduit and fittings may be used with Types -BPF.50, -BPF.75, -BPF1.0, -PF.50/.50, -PF.50/.75, -PF.75/.75, -TPF.50, -TPF.75.

3. Spacing — Minimum of 2 ft OC and not more than one insert per 65 sq ft of floor area in each span.

Type RC700 flush outlet box and poke-through fittings or **Types RAR, RC-700-RAP-1, -RAP-2** abandonment parts for use in 1, 1-1/2, 2, 3 or 4 hr rated unprotected reinforced concrete floors and 1, 1-1/2, 2 or 3 rated floors employing unprotected steel floor units and concrete toppings (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 poke-through fittings).

The assembled outlet box and poke-through fittings will not reduce the ratings of the floor assembly when the thickness and type of concrete (required for a specific rating) are within the specified limits and the fittings are installed as specified.

1. Concrete — Minimum thickness of structural concrete topping of 2-1/4 in. on steel deck or a minimum 3 in. thick reinforced concrete slab. Unit weight of concrete to be 100 to 155 pcf.

2. Installation — Mounted in 3 in. diameter core-drilled hole in concrete per installation instructions accompanying fittings or abandonment fittings. For use with power circuits, data cables and maximum 4 pair size telephone cables as tabulated below:

Poke Through Fitting Type	Service Fitting Type	Power Cond (a)	Tele/Data Cond (b)
RC-700	-A	3	16
	-MJ-8	3	16

(a.) Maximum number of No. 12 AWG Type THHN conductors in power compartment of poke-through fitting.

(b.) Maximum number of No. 22 AWG conductors in low voltage compartment of poke-through fitting (4 pair telephone cable has 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 No. 22 AWG copper conductors permitted in the low voltage compartment.

A. Modular communication jack assembly Type MJ-8 intended for communication opening.

3. Spacing — Minimum of 2 ft OC and not more than one insert per 65 sq ft of floor area in each span.

Type RC7FF114 factory assembled poke-thru devices are for use with 1, 1-1/2, 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.

- Spacing** - Minimum of 2 ft OC and not more than 1 unit per 65 sq ft of floor area in each span.
- Concrete** - Minimum thickness of structural concrete topping of 2-1/4 in. over metal deck or a minimum 3 in. thick reinforced concrete slab. Unit weight of concrete to be 110 to 155 pcf.
- Installation** - Mounted in a 3 in. diameter core-drilled hole in concrete per installation instructions accompanying the fittings or abandonment fittings. For use with power circuits, data and/or maximum 25 pair size telephone cables as tabulated below:

POKE-THRU FITTING TYPE	POWER CONDUCTORS (A)	COMMUNICATION CONDUCTORS (B)
RC7FF114TC (Power only)	15 (.07680 sq in.) [49.548 mm ²]	—
RC7FF114TC (Communication only)	—	152 (.07600 sq in.) [49.032 mm ²]

The "TC" suffix letters indicate that device may be installed on tile or carpet covered floors. The "LBJ" suffix letters indicate units supplied with a compression type EMT fitting.

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, 25 pair cables have 50 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.

Type FIT poke-through outlet box and **Type 200** single service head. **Types 221-21 CARPET, 221-21TILE or AP-FITTC** abandonment fittings for use in 1, 1-1/2, 2, 3 or 4 hr rated unprotected reinforced concrete floors and 1, 1-1/2, 2 or 3 hr rated floors employing unprotected steel floor units and concrete topping (D900-Series Designs) or concrete floors with suspended ceilings. (Fire resistance designs with suspended ceilings should have provisions for accessibility in ceiling area below the poke-through fittings).

Types CEFIT, FIT poke-through outlet box and **Type 241** double service head. **Types 221-21 CARPET, 221-21TILE or AP-FITTC** abandonment fittings for use in 1, 1-1/2 or 2 hr rated unprotected reinforced concrete floors and 1, 1-1/2 or 2 hr rated floors employing unprotected steel floor units and concrete topping (D900-Series Designs) or concrete floors with suspended ceilings. (Fire resistance designs with suspended ceilings should have provisions for accessibility in ceiling area below the poke-through fittings).

The assembled single or double service head outlet boxes and poke-through fittings or the abandonment fittings will not reduce the ratings of the floor assembly, when the thickness and type of concrete (required for a specific rating) are within the specified limits and the fittings are installed as specified:

1. Concrete — Minimum thickness of structural concrete topping of 2-1/4 in. over metal deck or a minimum 3 in. thick reinforced concrete slab. Unit weight of concrete to be 110 to 155 pcf.

2. Installation — Mounted in 2 in. diameter core-drilled holes in concrete per instructions accompanying the fittings or abandonment fittings. For use with power circuits, data cables and maximum 50 pair size telephone cables as tabulated below:

Poke Through Fitting Type	Service Fitting Type	Power Cond (a)	Tele/Data Cond (b)
CEFIT or FIT	200-H/BTC (power/communication)	3	100
	200-H/BTC (power/communication)	(d) 7	60
	200-H/BTC (power only)	(d) 13	—
	200-H/BTC (communication only)	—	130
	200-RTRTC (power/communication)	5	80
	241-H/BTC (power/communication)	7	100
	241-H/BTC (power only)	12	—
	241-H/BTC (com only)	—	170

241-2R/T/2RTC (power/communication)

7

100

(*)All catalog numbers may have additional suffix letters and/or numbers indicating style and/or color of receptacle, color of housing, color and/or style of faceplates, type of Listed EMT connectors, color and/or type of communication modules used, style of Listed outlet box. "HB" or "H/B" suffix letters indicate housing and base only (faceplates to be ordered separately). "TC" suffix letters indicate that device may be installed on tile or carpet covered concrete floors.

(a) Maximum number of No. 12 AWG Type THHN conductors in power compartment of poke-through fitting.

(b) Maximum number of No. 22 AWG conductors in low voltage compartment of poke-through fitting (4 pair cable has 8 conductors, 25 pair telephone cable has 50 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 No. 22 AWG copper conductors permitted in the low voltage compartment.

(c) 1/2, 3/4 and 1.0 in. flexible metallic conduit and fittings may be used with Service Head Types 200 or 241.

(d) Maximum number of power conductors when flexible metallic conduit is used. Maximum number of Tele/Data conductors to be adjusted accordingly.

3. Spacing — Minimum of 2 ft OC and not more than one insert per 65 sq ft of floor area in each span.

Type RC2001-3 poke-through outlet box and **Types CHI-X or RC2001-4**, service fittings and factory assembled **Types RC2001, RC2001-I** poke-through electrical inserts may or may not contain the suffix A. **Types RC2001RAP-1, -RAP-2** abandonment fittings for use with 1, 1-1/2, 2 hr rated unprotected reinforced concrete floors and 1, 1-1/2 or 2 hr 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-through fittings).

The assembled poke-through outlet box and service fittings or 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. Concrete — Minimum thickness of structural concrete topping of 2-1/4 in. over metal deck or a minimum 3 in. thick reinforced concrete slab. Unit weight of concrete to be 120 to 155 pcf.

2. Installation — Mounted in a 4 in. diameter core-drilled holes in concrete per instructions accompanying the fittings or abandonment fittings. For use with power circuits, data and/or telephone cables as tabulated below:

Poke Through Fitting Type	Service Fitting Type	Power Cond (a)	Tele/Data Cond (b)
RC2001-3	RC2001-4	3	32
RC2001	—	3	32
RC2001-A	—	3	32
RC2001-I	—	3	32
RC2001-I-A	—	3	32
RC2001-3	CHI-X	3	32

(a) Maximum number of No. 12 AWG Type THHN conductors in power compartment of poke-through fitting.

(b) Maximum number of 22 AWG conductors in low-voltage compartment of poke-through fitting (4 pair telephone cable has 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.

3. Spacing - Minimum of 2 ft OC and not more than one unit per 65 sq ft of floor area in each span.

Type RC20014HR-3 poke-through outlet box and **Type RC20014HR-4** service fitting and factory assembled **Types RC20014HR, RC20014HR-I** poke-through electrical inserts may or may not contain the suffix A. **Types RC20014HR-RAP-1, -RAP-2** abandonment fitting for use with 3 and 4 hr rated unprotected reinforced concrete floors and 3 hr 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-through fittings).

The assembled outlet box and poke-through fittings or 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. Concrete — Minimum thickness of structural concrete topping of 2-1/2 in. over metal deck or minimum 3 in. reinforced concrete slab. Unit weight of concrete to be 120 to 155 pcf.

2. Installation — Mounted in a 4 in. diameter core-drilled holes in concrete per instructions accompanying te fittings or abandonment fittings. For use with power circuits, data and/or telephone cables as tabulated below:

Poke Through Fitting Type	Service Fitting Type	Power Cond (a)	Tele/Data Cond (b)
RC20014HR-3	RC20014HR-4	3	32
RC20014HR	—	3	32
RC20014HR-A	—	3	32

RC20014HR-I	—	3	32
RC20014HR-I-A	—	3	32

- (a) Maximum number of No. 12 AWG Type THHN conductors in power compartment of poke-through fitting.
- (b) Maximum number of 22 AWG conductors in low-voltage compartment of poke-through fitting (4 pair telephone cable has 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.

3. Spacing — Minimum of 2 ft OC and not more than one unit per each 65 sq ft of floor area in each span.

Types CE3A, RC3S, RC3SCHI, AV35 poke-through outlet box and **Type RC3C** service head fittings and factory assembled **Types RC3A, RC3AXXXXCHI** poke-through electrical insert. **Types RC3 RAP-1, -RAP-2**, abandonment fittings for use with 1, 1-1/2, 2 hr rated unprotected reinforced concrete floors and 1, 1-1/2 or 2 hr 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-through fittings).

The assembled poke-through outlet box and service fittings or 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. Concrete** — Minimum thickness of structural concrete topping of 2-1/4 in. over metal deck or a minimum 3 in. thick reinforced concrete slab. Unit weight of concrete to be 120 to 155 pcf.
- 2. Installation** — Mounted in a 4 in. diameter core-drilled holes in concrete per instructions accompanying the fittings or abandonment fittings. For use with power circuits, data and/or telephone cables as tabulated below:

Poke Through Fitting Type	Service Fitting Type	Power Cond (a)	Tele/Data Cond (b)
CE3A, RC3A or RC3AXXXXCHI	—	3	32
RC3S or RC3SCHI	-RC3C	3	32
AV3S	AV3C	3	61

(XXXXX) All catalog numbers may have additional suffix letters and/or numbers indicating style of receptacle, color of receptacle, finish ring color or material and slide holder assembly.

- (a) Maximum number of No. 12 AWG Type THHN conductors in power compartment.
- (b) Maximum number of 22 AWG conductors in low-voltage compartment of poke-through fitting (4 pair telephone cable has 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.

3. Spacing - Minimum of 2 ft OC and not more than one unit per 65 sq ft of floor area in each span.

Types CE4A, RC4S, RC3SCHI, AV35 poke-through outlet box and **Type RC4C** service head fittings and factory assembled **Types RC4A, RC4AXXXXCHI** poke-through electrical insert. **Types RC4RAP-1, -RAP-2**, abandonment fittings for use with 1, 1-1/2, 2 hr rated unprotected reinforced concrete floors and 1, 1-1/2 or 2 hr 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-through fittings).

The assembled poke-through outlet box and service fittings or 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. Concrete** — Minimum thickness of structural concrete topping of 2-1/4 in. over metal deck or a minimum 3 in. thick reinforced concrete slab. Unit weight of concrete to be 120 to 155 pcf.
- 2. Installation** — Mounted in a 4 in. diameter core-drilled holes in concrete per instructions accompanying the fittings or abandonment fittings. For use with power circuits, data and/or telephone cables as tabulated below:

Poke Through Fitting Type	Service Fitting Type	Power Cond (a)	Tele/Data Cond (b)
CE4A, RC4A or RC4AXXXXCHI	—	3	32
RC4S or RC4SCHI	-RC4C	3	32
AV4S	AV4C	3	61

(XXXXX) All catalog numbers may have additional suffix letters and/or numbers indicating style of receptacle, color of receptacle, finish ring color or material and slide holder assembly.

- (a) Maximum number of No. 12 AWG Type THHN conductors in power compartment.
- (b) Maximum number of 22 AWG conductors in low-voltage compartment of poke-through fitting (4 pair telephone cable has 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.

3. Spacing - Minimum of 2 ft OC and not more than one unit per 65 sq ft of floor area in each span.

Types CE4FF, 4FF, 4FFATC15x-ALT2, 4FFATC15-ALT poke-through fittings for use with 1, 1-1/2, 2 hr rated unprotected reinforced

concrete floors and 1, 1-1/2 or 2 hr 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-through fittings).

The assembled poke-through outlet box and service fittings or 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. **Concrete** — Minimum thickness of structural concrete topping of 2-1/4 in. over metal deck or a minimum 3 in. thick reinforced concrete slab. Unit weight of concrete to be 110 to 155 pcf.
2. **Installation** — Mounted in a 4 in. diameter core-drilled hole in concrete per instructions accompanying the fittings. For use with power circuits, data and/or audio/visual cables. The maximum allowable cross-sectional area of copper for power cabling in each poke-through electrical insert is 0.0819 sq in. The maximum allowable cross-sectional area of copper for communications cabling in each poke-through electrical insert is 0.0720 sq in. Cross-sectional area of commonly-used solid copper conductors in communications cable is 0.00032 sq in. for No. 24 AWG and 0.00050 sq in. for No. 22 AWG. Cross-sectional area of commonly-used solid copper conductors in power cable is 0.0051 sq in. for No. 12 AWG.
3. **Spacing** - Minimum of 2 ft OC and not more than one unit per 65 sq ft of floor area in each span.

Types 4FFATC15x, 4FFATC15x-LJB, 4FFxTC15X, 4FFSTC15 poke-through fittings for use with 1, 1-1/2, 2 hr rated unprotected reinforced concrete floors and 1, 1-1/2 or 2 hr 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-through fittings).

The assembled poke-through outlet box and service fittings or 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. **Concrete** — Minimum thickness of structural concrete topping of 2-1/4 in. over metal deck or a minimum 3 in. thick reinforced concrete slab. Unit weight of concrete to be 110 to 155 pcf.
2. **Installation** — Mounted in a 4 in. diameter core-drilled hole in concrete per instructions accompanying the fittings. For use with power circuits, data and/or audio/visual cables. The maximum allowable cross-sectional area of copper for power cabling in each poke-through electrical insert is 0.0819 sq in. The maximum allowable cross-sectional area of copper for communications cabling in each poke-through electrical insert is 0.0819 sq in. Cross-sectional area of commonly-used solid copper conductors in communications cable is 0.00032 sq in. for No. 24 AWG and 0.00050 sq in. for No. 22 AWG. Cross-sectional area of commonly-used solid copper conductors in power cable is 0.0051 sq in. for No. 12 AWG.
3. **Spacing** - Spacing - Minimum of 2 ft OC and not more than one unit per 65 sq ft of floor area in each span.

Types CEAV3, AMD8, AV3, AMD8xTC15x, AV3xTC15x, AMD8xTC15-ALT, AV3xTC15-ALT poke-through fittings for use with 1, 1-1/2, 2 hr rated unprotected reinforced concrete floors and 1, 1-1/2 or 2 hr 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-through fittings).

The assembled poke-through outlet box and service fittings or 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. **Concrete** — Minimum thickness of structural concrete topping of 2-1/4 in. over metal deck or a minimum 3 in. thick reinforced concrete slab. Unit weight of concrete to be 110 to 155 pcf.
2. **Installation**— Mounted in a 4 in. diameter core-drilled hole in concrete per instructions accompanying the fittings. For use with power circuits, data and/or audio/visual cables. The maximum allowable cross-sectional area of copper for power cabling in each poke-through electrical insert is 0.0154 sq in. The maximum allowable cross-sectional area of copper for communications cabling in each poke-through electrical insert is 0.0190 sq in. Cross-sectional area of commonly-used solid copper conductors in communications cable is 0.00032 sq in. for No. 24 AWG and 0.00050 sq in. for No. 22 AWG. Cross-sectional area of commonly-used solid copper conductors in power cable is 0.0051 sq in. for No. 12 AWG.
3. **Spacing** - Minimum of 2 ft OC and not more than one unit per 65 sq ft of floor area in each span.

Types CE7A, RC7S, RC7SCHI poke-through outlet box and **Type RC7C, RC7CFF** service head fittings and factory assembled **Types RC7A, RC7AM2, RC7AXXXXXCHI, RC7AFF, RC7AFFXXCHI** poke-through electrical insert. **Types RC7AP** abandonment fittings for use with 1, 1-1/2, 2 hr rated unprotected reinforced concrete floors and 1, 1-1/2 or 2 hr rated floors employing unprotected steel floor units and concrete toppings (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 poke-through fittings).

The assembled poke-through outlet box and service fittings or abandonment fittings will not reduce the ratings of the floor assembly when the thickness and type of concrete (required for a specific rating) are within the specified limits and the fittings are installed as specified:

1. **Concrete** — Minimum thickness of structural concrete topping of 2-1/4 in. over metal deck or a minimum 3 in. thick reinforced concrete slab. Unit weight of concrete to be 120 to 155 pcf.
2. **Installation** — Mounted in a 3 in. diameter core-drilled hole in concrete per installation instructions accompanying fittings or abandonment fittings. For use with power circuits, data and/or telephone cables as tabulated below:

Poke Through Fitting Type	Service Fitting Type	Power Cond (a)	Tele/Data Cond (b)
CE7A, RC7S or RC7SCHI	-RC7C	3	16
RC7A	—	3	16
RC7AM2	—	3	16
RC7AXXXXXCHI	—	3	16

RC7AFF	—	7+2(a1)	128
RC7AFFXXCHI	—	7+2(a1)	128
RC7S or RC7SCHI	RC7CFF	7+2(a1)	128

(XXXXX) All catalog numbers may have additional suffix letters and/or numbers indicating style of receptacle, color of receptacle, finish ring color or material and slide holder assembly style.

(a) Maximum number of No. 12 AWG Type THHN conductors in power compartment.

(a1) Maximum number of No. 12 AWG Type THHN conductors plus Maximum number of No. 10 AWG Type THHN conductors in power compartment.

(b) Maximum number of 22 AWG conductors in low-voltage compartment of poke-through fitting (4 pair telephone cable has 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.

3. **Spacing** - Minimum of 2 ft OC and not more than one unit per 65 sq ft of floor area in each span.

Types CE9A, RC9S, RC9SCHI poke-through outlet box and **Type RC9C** service head fittings and factory assembled **Types RC9A, RC9AM2, RC9AMD, RC9A15, RC9AXXXXCHI** poke-through electrical insert. **Types RC9 RAP-1, -RAP-2** abandonment fittings for use with 1, 1-1/2, 2 hr rated unprotected reinforced concrete floors and 1, 1-1/2 or 2 hr rated floors employing unprotected steel floor units and concrete toppings (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 poke-through fittings).

The assembled poke-through outlet box and service fittings or abandonment fittings will not reduce the ratings of the floor assembly when the thickness and type of concrete (required for a specific rating) are within the specified limits and the fittings are installed as specified:

1. Concrete — Minimum thickness of structural concrete topping of 2-1/4 in. over metal deck or a minimum 3 in. thick reinforced concrete slab. Unit weight of concrete to be 120 to 155 pcf.

2. Installation — Mounted in a 3 in. diameter core-drilled hole in concrete per installation instructions accompanying fittings or abandonment fittings. For use with power circuits, data and/or telephone cables as tabulated below:

Poke Through Fitting Type	Service Fitting Type	Power Cond (a)	Tele/Data Cond (b)
CE9A, RC9S or RC9SCHI	-RC9C	3	32
RC9A	—	3	32
RC9AM2	—	3	32
RC9AMD	—	3	32
RC9A15	—	3	32
RC9AXXXXCHI	—	3	32

(XXXX) All catalog numbers may have additional suffix letters and/or numbers indicating style of receptacle, color of receptacle, finish ring color or material and slide holder assembly style.

(a) Maximum number of No. 12 AWG Type THHN conductors in power compartment.

(b) Maximum number of 22 AWG conductors in low-voltage compartment of poke-through fitting (4 pair telephone cable has 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.

3. **Spacing** - Minimum of 2 ft OC and not more than one unit per 65 sq ft of floor area in each span.

Types RC9FFS poke-through outlet box and **Types RC9CFF, 291** single service head or **292** double service head fittings and factory assembled **Types RC9AFF, RC91G, RC92G. Types RC9AP, RC9MSSAP** abandonment fittings for use with 1, 1-1/2, 2 hr rated unprotected reinforced concrete floors and 1, 1-1/2 or 2 hr rated floors employing unprotected steel floor units and concrete toppings (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 poke-through fittings).

The assembled poke-through outlet box and service fittings or abandonment fittings will not reduce the ratings of the floor assembly when the thickness and type of concrete (required for a specific rating) are within the specified limits and the fittings are installed as specified:

1. Concrete — Minimum thickness of structural concrete topping of 2-1/4 in. over metal deck or a minimum 3 in. thick reinforced concrete slab. Unit weight of concrete to be 110 to 155 pcf.

2. Installation — Mounted in 3 in. diameter core-drilled hole in concrete per installation instructions accompanying fittings or abandonment fittings. For use with power circuits, data and maximum 50 pair size telephone cables as tabulated below:

Poke Through Fitting Type	Service Fitting Type	Power Cond (a)	Tele/Data Cond (b)
RC9FFS	RC9CFFTS	8 + 2 (a1)	128
	291-H/BTC (power/communication)	3	100

	291-H/BTC (power/communication)	(d) 7	60
	291-H/BTC (power only)	13	—
	291-H/BTC (communication only)	—	130
	291-H/BTC (power/communication)	10	100
	291-H/BTC (power only)	12	—
	291-H/BTC (communication only)	—	130
RC9AFFTC	—	8 + 2 (a1)	128
RC91GHBTC (power/communication)	—	3	100
RC91GHBTC (power/communication)	—	(d) 7	60
RC91GHBTC (power only)	—	13	—
RC91GHBTC (communication only)	—	—	130
RC92GHBTC (power/communication)	—	10	100
RC92GHBTC (power only)	—	12	—
RC92GHBTC (communication only)	—	—	130

(*) All catalog numbers may have additional suffix letters and/or numbers indicating style and/or color of receptacle, color of housing, color and/or style of faceplates, type of Listed EMT connectors, color and/or type of communication modules used, style of Listed outlet box. "HB" or "H/B" suffix letters indicate housing and base only (faceplates to be ordered separately). "TC" suffix letters indicate that device may be installed on tile or carpet covered concrete floors.

(a) Maximum number of No. 12 AWG Type THHN conductors in power compartment.

(a1) Maximum number of No. 12 AWG Type THHN conductors plus Maximum number of No. 10 AWG Type THHN conductors in power compartment.

(b) Maximum number of 22 AWG conductors in low-voltage compartment of poke-through fitting (4 pair cable has 8 conductors, 25 pair cable has 50 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.

(c) 1/2, 3/4 and 1.0 in. flexible metallic conduit and fittings may be used with Types 291-H/BTC or 292-H/BTC service head fittings or factory assembled Types RC91GHBTC or RC92GHBTC. 3/4 in. metallic flexible conduit may be used with Type RC9CFFTC service head or factory assembled Type RC9AFFTC.

(d) Maximum number of power conductors when flexible metallic conduit is used. Maximum number of Tele/Data conductors to be adjusted accordingly.

3. **Spacing** - Minimum of 2 ft OC and not more than one unit per 65 sq ft of floor area in each span.

Types CE6ATCFF, 6ATCFF poke-through fittings for use in 1, 1-1/2 or 2 hr fire rated unprotected reinforced concrete floors, in 1, 1 1/2 or 2 hr fire rated floors employing unprotected steel floor units and concrete topping (D900-Series designs) or in 1, 1-1/2 or 2 hr fire rated concrete floors with suspended ceilings. Fire resistive designs with suspended ceilings should have provisions for accessibility in the ceiling area below the poke-through fittings.

The assembled poke-through 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 when the fitting is installed as specified.

1. **Concrete**— Minimum 2-1/4 in. thickness of structural concrete topping over metal deck or a minimum 3 in. thick reinforced concrete slab. Unit weight of concrete to be 105 to 155 pcf.

2. **Installation**— Mounted in a 6 in. diameter core-drilled hole in concrete per instructions accompanying the poke-through fitting. For use with power circuits, data and/or audio/visual cables. The maximum allowable cross-sectional area of copper for power or communications cabling in each poke-through electrical insert is 0.1688 sq in. Cross-sectional area of commonly-used solid copper conductors in communications cable is 0.00032 sq in. for No. 24 AWG and 0.00050 sq in. for No. 22 AWG. Cross-sectional area of commonly-used solid copper conductors in power cable is 0.0051 sq in. for No. 12 AWG.

3. **Spacing**— Minimum of 2 ft OC and not more than one unit per 65 sq ft of floor area in each span.

Types CE6AT, CE6ST, 6AT, 6ATC, 6ATCP, 6ATCPAV, 6ATP, 6ATPAV and 6STC poke-through fittings or **Type ABPLUG6** abandonment fitting for use in 1, 1-1/2 or 2 hr fire rated unprotected reinforced concrete floors, in 1, 1 1/2 or 2 hr fire rated floors employing unprotected steel floor units and concrete topping (D900-Series designs) or in 1, 1-1/2 or 2 hr fire rated concrete floors with suspended ceilings. Fire resistive designs with suspended ceilings should have provisions for accessibility in the ceiling area below the poke-through fittings.

The assembled poke-through fitting or abandonment 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 when the fitting is installed as specified.

1. **Concrete**— Minimum 2-1/4 in. thickness of structural concrete topping over metal deck or a minimum 3 in. thick reinforced concrete slab. Unit weight of concrete to be 105 to 155 pcf.

2. **Installation**— Mounted in a 6 in. diameter core-drilled hole in concrete per instructions accompanying the poke-through fitting or abandonment fitting. For use with power circuits, data and/or audio/visual cables. The maximum allowable cross-

sectional area of copper for power or communications cabling in each poke-through electrical insert is 0.0695 sq in. Cross-sectional area of commonly-used solid copper conductors in communications cable is 0.00032 sq in. for No. 24 AWG and 0.00050 sq in. for No. 22 AWG. Cross-sectional area of commonly-used solid copper conductors in power cable is 0.0051 sq in. for No. 12 AWG.

3. **Spacing**— Minimum of 2 ft OC and not more than one unit per 65 sq ft of floor area in each span.

Types CE8AT, CE8ST, 8AT, 8ATC, 8ATCP, 8ATP and 8STC poke-through fittings or **Type ABPLUG8** abandonment fitting for use in 1, 1-1/2 or 2 hr fire rated unprotected reinforced concrete floors, in 1, 1 1/2 or 2 hr fire rated floors employing unprotected steel floor units and concrete topping (D900-Series designs) or in 1, 1-1/2 or 2 hr fire rated concrete floors with suspended ceilings. Fire resistive designs with suspended ceilings should have provisions for accessibility in the ceiling area below the poke-through fittings.

The assembled poke-through fitting or abandonment 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 when the fitting is installed as specified.

1. **Concrete**— Minimum 2-1/4 in. thickness of structural concrete topping over metal deck or a minimum 3 in. thick reinforced concrete slab. Unit weight of concrete to be 105 to 155 pcf.

2. **Installation**— Mounted in an 8 in. diameter core-drilled hole in concrete per instructions accompanying the poke-through fitting of abandonment fitting. For use with power circuits, data and/or audio/visual cables. The maximum allowable cross-sectional area of copper for power or communications cabling in each poke-through electrical insert is 0.1083 sq in. Cross-sectional area of commonly-used solid copper conductors in communications cable is 0.00032 sq in. for No. 24 AWG and 0.00050 sq in. for No. 22 AWG. Cross-sectional area of commonly-used solid copper conductors in power cable is 0.0051 sq in. for No. 12 AWG.

3. **Spacing**— Minimum of 2 ft OC and not more than one unit per 65 sq ft of floor area in each span.

Type PK Series preset electrical inserts with **Type RAKM, S37BB, S37BC, S37CC, S38, S39 or FPCTC** activation fittings for use in **Floor-Ceiling** Design Nos. [D739](#), [D767](#), [D787](#), [D796](#), [D858](#), [D871](#).

Type PK Series preset electrical inserts with **Type RAKM-II, S36BB, S36BC, S36CC, S38, S39, FPCTC, S3AXBP or FAKM-II** activation fittings for use in **Floor-Ceiling** Design Nos. [D216](#), [D219](#), [D739](#), [D767](#), [D787](#), [D796](#), [D858](#), [D871](#).

Type PK Series preset electrical inserts with **Type RAKM-II-R** activation fittings for use in **Floor-Ceiling** Design No. [D858](#).

Type PK Series preset electrical inserts with **Type FPF Series, S36PB, S36PC, S38, S39 or FPCTC** activating fittings for use in **Floor-Ceiling** Design Nos. [D739](#), [D767](#), [D787](#), [D796](#), [D858](#).

Type PK Series preset electrical inserts with **Type RPF Series, S37PB, S37PC, S38, S39 or FPCTC** activation fittings for use in **Floor-Ceiling** Design Nos. [D832](#), [D858](#).

Type NRG Bloc IV preset electrical inserts furnished by Kam Industries Ltd d/b/a Cordeck with **Types RAKM-II, S36BB, S36BC, S36CC, S38, S39, FPCTC, S3AXBP and FAKM-II** activation fittings for use in **Floor-Ceiling** Design Nos. [D216](#), [D219](#), [D301](#), [D502](#), [D703](#), [D712](#), [D722](#), [D739](#), [D767](#), [D787](#), [D796](#), [D822](#), [D831](#), [D832](#), [D847](#), [D858](#).

Type NRG Bloc IV preset electrical inserts furnished by Kam Industries Ltd d/b/a Cordeck with **Type RAKM, S37BB, S37BC or S37CC, RPF Series, S37PB, S37PC, S37PP and FPF Series, S36PB, S36PC, S36PP, S38, S39 or FPCTC** activation fittings for use in **Floor-Ceiling** Design Nos. [D739](#), [D767](#), [D787](#), [D796](#), [D832](#), [D858](#).

Type 436 Series after set inserts with internal protection and with **Types M4-, M6- and M8- Series** single-service activation fittings in **Floor-Ceiling** Design Nos. [D303](#), [D916](#), [D922](#), [D923](#), [D925](#), [D927](#), [D929](#).

Type 437 Series preset/after set inserts with **S125R, S126R, S165B or S166B** activating fittings for use in **Floor-Ceiling** Design Nos. [D739](#), [D767](#), [D787](#), [D796](#), [D858](#), [D871](#).

Types TSAR and TSACR after set electrical inserts for use in **Floor-Ceiling** Design Nos. [D739](#), [D755](#), [D759](#), [D767](#), [D787](#), [D796](#), [D832](#), [D858](#), [D865](#).

Type 880MPFC preset electrical insert for use in 2 hr fire rated D900 Series **Floor-Ceiling** designs constructed with nominal 2 in. or 3 in. deep fluted steel floor units having nominal 5 in. wide valleys and crests spaced 12 in. OC and with a minimum 3-1/4 in. thickness of structural concrete topping. For use with a max of four (4) No. 12 AWG Type THHN power conductors or a max of forty-eight (48) No. 23 AWG tele/data conductors per insert. The assembled preset electrical insert with service activation fitting will not reduce the 2 hr fire rating of the floor assembly when installed in accordance with the installation instructions accompanying the preset electrical insert and when the preset electrical inserts are spaced minimum 2 ft OC with not more than one unit per 65 sq ft of floor area in each span.

Type 881FC preset electrical insert for use in 2 hr fire rated D900 Series **Floor-Ceiling** designs constructed with nominal 2 in. or 3 in. deep fluted steel floor units having nominal 5 in. wide valleys and crests spaced 12 in. OC and with a minimum 3-1/4 in. thickness of structural concrete topping. For use with a max of four (4) No. 12 AWG Type THHN power conductors or a max of forty-eight (48) No. 23 AWG tele/data conductors per insert. The assembled preset electrical insert with service activation fitting will not reduce the 2 hr fire rating of the floor assembly when installed in accordance with the installation instructions accompanying the preset electrical insert and when the preset electrical inserts are spaced minimum 2 ft OC with not more than one unit per 65 sq ft of floor area in each span.

Type 880M1FC, 880M2FC, 880M3FC, 880S1FC, 880S2FC, 880S3FC, 880S1-FC, 880S2-FC, 880S3-FC, 8801S-FC2, 8802S-FC12, and 8803S-FC12 preset electrical insert for use with **Type FCPAN** floor plate kits in 2 hr fire rated D900 Series **Floor-Ceiling** designs constructed with nominal 2 in. or 3 in. deep fluted steel floor units having nominal 5 in. wide valleys and crests spaced 12 in. OC. The Type 880M1FC, 880M2FC, 880M3FC, 880S1-FC, 880S2-FC, and 880S3-FC preset electrical inserts are for use with a minimum 3 1/4 in. thickness of structural concrete topping. For use with a max of four (4) No. 12 AWG Type THHN power conductors or a max of forty-eight (48) No. 23 AWG tele/data conductors per gang. The Type 880S1FC, 880S2FC and 880S3FC preset electrical inserts are for use with a minimum 4-1/2 in. thickness of structural concrete topping. The assembled preset electrical insert with floor plate kit and service activation fitting will not reduce the 2 hr fire rating of the floor assembly when installed in accordance with the installation instructions accompanying the preset electrical insert and when the preset electrical inserts are spaced minimum 2 ft OC with not more than one unit per 4 sq ft of floor area in each span.

Type RFB2FC, RFB2-SSFC, RFB4-4DBFC, RFB4-SSFC, RFB2S-FC, RFB4S-FC, RFB2S-FC12, and RFB4S-FC12 preset electrical inserts for use with **Type FCPAN** floor plate kits in 2 hr fire rated D900 Series **Floor-Ceiling** designs constructed with nominal 2 in. or 3 in. deep fluted steel floor units having nominal 5 in. wide valleys and crests spaced 12 in. OC. The Type RFB2-SSFC, RFB4-SSFC, RFB2S-FC, and

RFB4S-FC preset electrical inserts are for use with a minimum 3 1/4 in. thickness of structural concrete topping. The Type RFB2FC and RFB4-4DBFC preset electrical inserts are for use with a minimum 4-1/2 in. thickness of structural concrete topping. For use with a max of four (4) No. 12 AWG Type THHN power conductors or a max of forty-eight (48) No. 23 AWG tele/data conductors per gang. The assembled preset electrical insert with floor plate kit and service activation fitting will not reduce the 2 hr fire rating of the floor assembly when installed in accordance with the installation instructions accompanying the preset electrical insert and when the preset electrical inserts are spaced minimum 2 ft OC with not more than one unit per 4 sq ft of floor area in each span.

Type EFB6S-FC, EFB8S-FC, EFB10S-FC preset electrical inserts for use with **Type EFB610CT, EFB610BT, EFB610CTC and EFB610BTC** service fitting covers in 2 hr fire rated D900 Series Floor-Ceiling designs constructed with nominal 2 in. or 3 in. deep fluted steel floor units having nominal 5 in. wide valleys and crests spaced 12 in. OC. The preset electrical inserts are for use with a minimum 3 1/4 in. thickness of structural concrete topping. For use with a max of sixty (60) No. 14 AWG Type THHN conductors. The assembled preset electrical insert with floor plate kit and service activation fitting will not reduce the 2 hr fire rating of the floor assembly when installed in accordance with the installation instructions accompanying the preset electrical insert and when the preset electrical inserts are spaced minimum 2 ft OC with not more than one unit per 4 sq ft of floor area in each span.

Type EFB6S-FC-xx, EFB8S-FC-xx, EFB10S-FC-xx, EFB10S-FC2222, EFB10S-FC1122, EFB8S-FC2222, EFB8S-FC1122, EFB6S-FC2222, and EFB6S-FC1122 preset electrical inserts for use with **Type EFB610CT, EFB610BT, and EFB610CTC** service fitting covers in up to 3 hr fire rated D900 Series Floor-Ceiling designs constructed with nominal 2 in. or 3 in. deep fluted steel floor units having nominal 5 in. wide valleys and crests spaced 12 in. OC. The preset electrical inserts are for use with a minimum 3 1/4 in. thickness of structural concrete topping. For use with a max of sixty (60) No. 14 AWG Type THHN conductors. The assembled preset electrical insert with floor plate kit and service activation fitting will not reduce the 3 hr fire rating of the floor assembly when installed in accordance with the installation instructions accompanying the preset electrical insert and when the preset electrical inserts are spaced minimum 2 ft OC with not more than one device per each 4 sq. ft. of floor area.

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