10 INCH FIRE-RATED POKE-THROUGH (FRPT) COVER ASSEMBLIES

GENERAL INFORMATION

Factory assembled S1R10xxx series service fittings -For use in a 1, 1-1/2 & 2 hour rated unprotected reinforced concrete floor or floors employing steel form units and concrete topping (D900-series designs[US], F900-series designs [Canada]), or concrete floors with suspended ceilings. (Fire resistance designs with suspended ceilings should have provisions for accessibility in the ceiling area below the poke through fittings.)

The assembled FRPT device and fitting 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 ¼ inch over metal deck or a minimum of 3 inch thick reinforced concrete slab. Unit weight of concrete to be 113 to 155 pounds per cubic foot.
2. INSTALLATION - Mounted in a 10 inch diameter drilled hole or a formed 10 inch diameter hole using Hubbell Pre-Pour Tube S1R10PPT, purchased separately.
3. SPACING - Minimum of 2 feet on-centers (OC) and not more than one unit per 65 square feet of floor area in each span.
4. RECESSED COVERS - Maximum allowable cross-sectional area of copper for power circuits, data/AV, and/or telephone cables that may be fed through each of the perimeter sides of the service fitting is 0.0408 sq. in. Maximum allowable cross-sectional area of copper for power circuits, data/AV, and/or telephone cables that may be fed through the center of the service fitting is 0.0978 sq. in.
5. FURNITURE FEED COVERS - Maximum allowable cross-sectional area of copper for power circuits, data/AV, and/or telephone cables that may be fed through each of the 1” opening side of the service fitting is 0.1304 sq. in. Maximum allowable cross-sectional area of copper for power circuits, data/AV, and/or telephone cables that may be fed through the center opening of the service fitting is 0.1924 sq. in.

• **CAUTION: RISK OF ELECTRICAL SHOCK**. Disconnect power before installing. Never wire energized electrical components.
• **NOTICE:** For installation by a qualified electrician in accordance with all national and local electrical codes, communications standards, the following instructions and any instructions included with individual devices.
• **NOTICE:** For indoor use only.
• **NOTICE:** In accordance with the NEC® and CE Code, data communications must be separated from power circuits.
• **NOTICE:** Device type and rating must be suitable for the application.
• **CAUTION: USE COPPER CONDUCTORS ONLY.**
• Select conductors having 90°C or higher rated insulation and sufficient ampacity in accordance with the NEC® or CE Code.
• **NOTICE:** Not intended to be used in high traffic installations and not intended to support furniture.
• **CAUTION:** For Furniture Feed cover applications - liquid tight conduits are required for power and data wires and cables to maintain fire classification.

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RECESSED COVER - INSTALLATION INSTRUCTIONS

1. Remove installation plate (A) and installation tubes (B) if installed, Fig. 1, and retain screws (C).

2. Install data/AV and/or power cover plates (S1R10CSPxxx series and S1R10PSPxxx series) and associated components, purchased separately, into service fitting (D) per the cover plates included instructions.

3. Apply a ¼ [6,4mm] thick continuous bead of electrical type of RTV silicone sealant (F) fully around the corner on the underside of the flange (G) as shown in Fig. 2.

4. Apply a ¼ [6,4mm] thick continuous bead of electrical type of RTV silicone sealant (F1) fully around the perimeter on the underside of the flange (G) as shown in Fig. 2.

5. FOR CARPETED FLOORS ONLY: Fill in the cut 10.50" – 10.75" diameter hole into the carpet (E) with continuous bead of electrical type of RTV silicone sealant (F2) fully around the perimeter as shown in Fig. 3. Sealant (F2) height to be same height as carpet. Apply sealant (F) per step 3.

6. Install cover assembly (H), S1R10CVRxxx series, to the service fitting (D) using retained screws and torque to 10-12 in-lbs (1,1-1,4 Nm) as shown in Fig. 4. DO NOT OVERTIGHTEN. If purchased separately, the cover assembly will be supplied with additional mounting screws. Discard installation plate (A) and installation tubes (B).

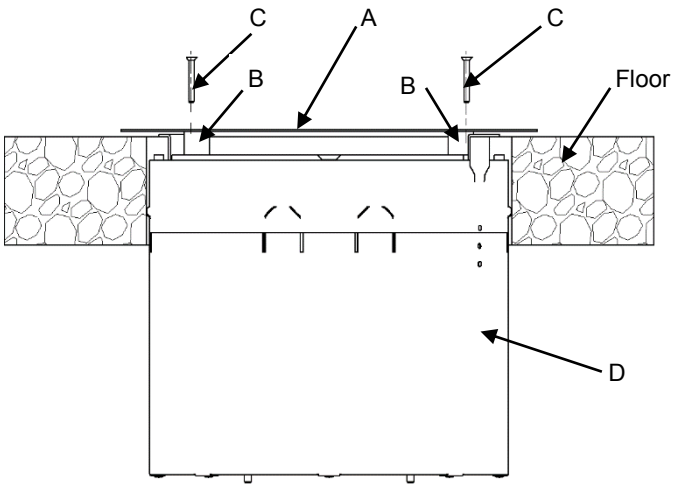

Fig. 1

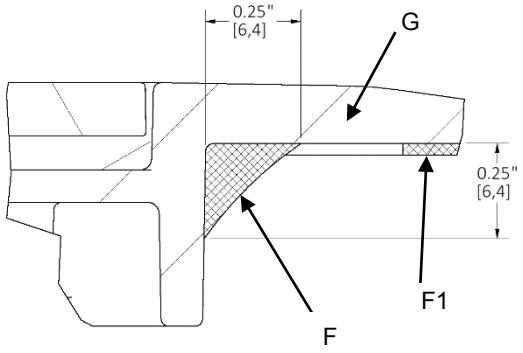

Fig. 2

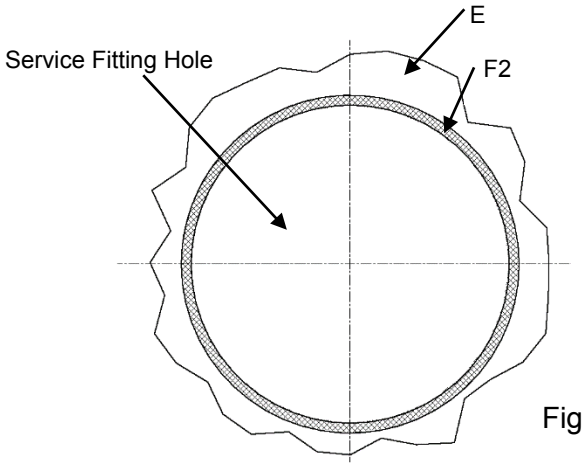

Fig. 3

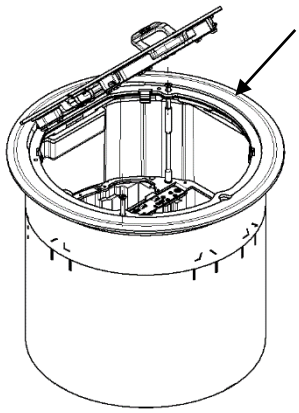

Fig. 4

TAMPER RESISTANT (TR) COVER - INSTALLATION INSTRUCTIONS

Install TR cover assemblies (I), S1R10CVRTRxxx series, per steps 1-6 of recessed cover installation instructions.

7. Install TR screw (J) with TR bit (K) provided. Do not discard TR bit (K). Torque TR screw (J) to 3-4 in-lbs (0,3-0,4 Nm), Fig. 5. DO NOT OVERTIGHTEN. TR bit (S1RTR10BIT) (K), Fig. 6, can be purchased separately.

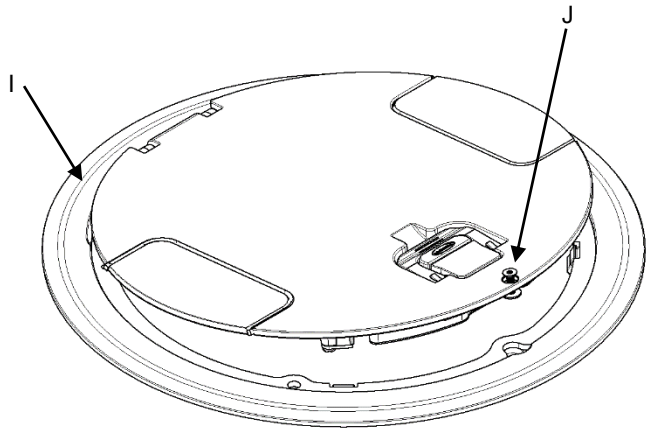

Fig. 5

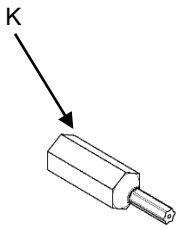

Fig. 6

DOOR BRUSHES - Catalog No.: S1R10CVRBRUSH

Install the door brushes (L), purchased separately, on the underside of the flange (M) noting the orientation of the door brushes (L) as shown in Fig. 7. Torque screws (N) to 3-4 in-lbs (0,3-0,4 Nm). DO NOT OVERTIGHTEN.

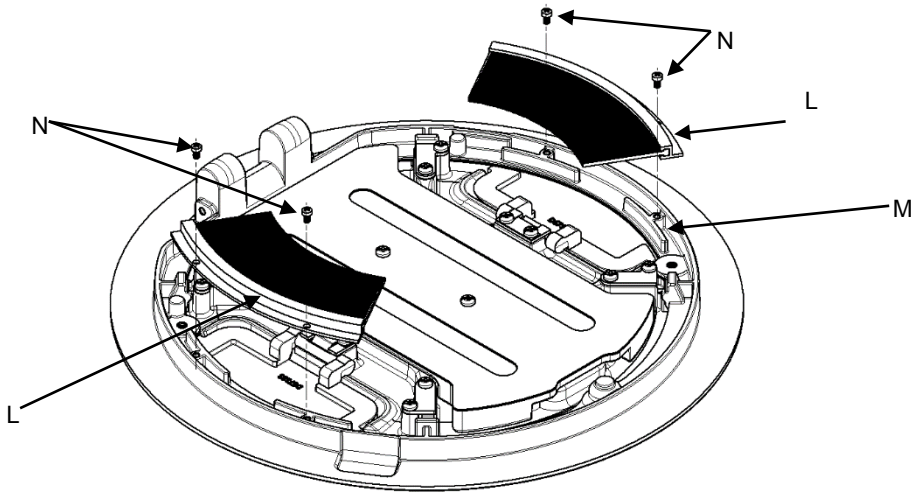

Fig. 7

FURNITURE FEED COVER - INSTALLATION INSTRUCTIONS

1. Type S1R10FFCVRxxx series furniture feed covers are supplied with closure plugs (O) and (P) for the 1" and 2" openings and 1" to 3/4" reducer (Q) Fig. 10. Openings must always be plugged when not in use. If installation requires closure plugs (O) and/or (P), tighten plugs into threaded hole, and apply electrical type of RTV silicone sealant to ensure water tightness. If installation requires screw-in connector fittings (not supplied), tighten screw-in connector fittings into threaded hole apply electrical type of RTV silicone sealant to ensure water tightness.
2. Remove installation plate (A) and installation tubes (B) if installed, Fig. 1, and retain screws (C).
3. Install Furniture Feed (FF) dividers (V) per the FF divider instructions below.
4. Remove three screws (S) and cover (R) from flange (G) Fig. 8.
5. Apply a ¼ [6,4mm] thick continuous bead of electrical type of RTV silicone sealant (F) and (F1) fully around the corner and fully around the perimeter on the underside of the flange (G) as shown in Fig. 2.
6. Install flange (G) to the service fitting (D) using retained screws (C) and torque to 10-12 in-lbs (1,1-1,4 Nm), Fig. 8.
7. Feed wires through either one or both power compartment sides.
8. Fasten cover (R) to flange (G) with three screws (S) provided and torque to 6-8 in-lbs (0,7-0,9 Nm) Fig. 8. Discard installation plate (A) and installation tubes (B) from Fig. 1.
9. For data/AV, remove 4 screws (U) and cover (T). Feed wires through the data compartment. Feed wire through either one or both of the 2" feeds and install cover (T) to cover (R) using 4 screws (U). Torque screws (U) to 6-8 in-lbs (0,7-0,9 Nm).
10. Install 1" and/or 2" liquid tight conduit as required to screw-in connector. Liquid tight conduit is required to maintain the fire rating of the poke through installation.
11. If using 1" to 3/4" reducer (Q), thread reducer (Q) onto screw-in connector and then install reducer and screw-in connector to cover (R). Tighten screw-in connector per manufacturer's installation instructions. Apply continuous bead of electrical type of RTV silicone sealant around screw-in connector to ensure water tightness.

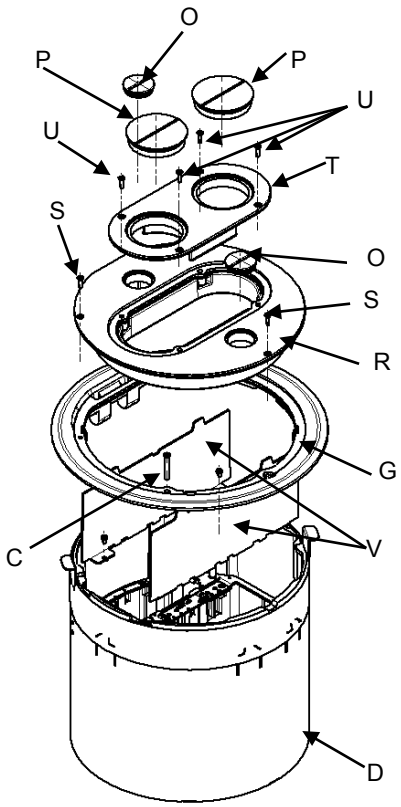

Fig. 8

FURNITURE FEED (FF) DIVIDER – S1R10FFDIV
(Replacements can be purchased separately)

1. The FF divider (V) can be installed with or without flange (G) installed, Fig. 8.
2. Install FF divider (V) onto bracket (X) using the screws (W) provided, noting orientation of FF divider (V) as shown in Fig. 9.
3. Torque the supplied mounting screws (W) to 6-8 in-lbs (0,7-0,9 Nm).
4. Repeat steps 2-3 to install the second FF divider (V). Both FF dividers (V) must be installed for FF cover applications.

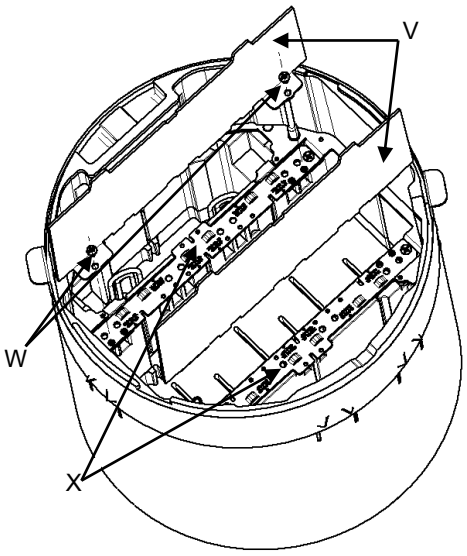

Fig. 9

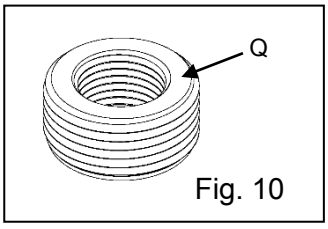

Fig. 10