311-TYPE CONNECTOR MOUNTING INSTRUCTION AND TEMPLATE AND INSTALLATION PROCEDURE FOR 1A SHUNT KIT

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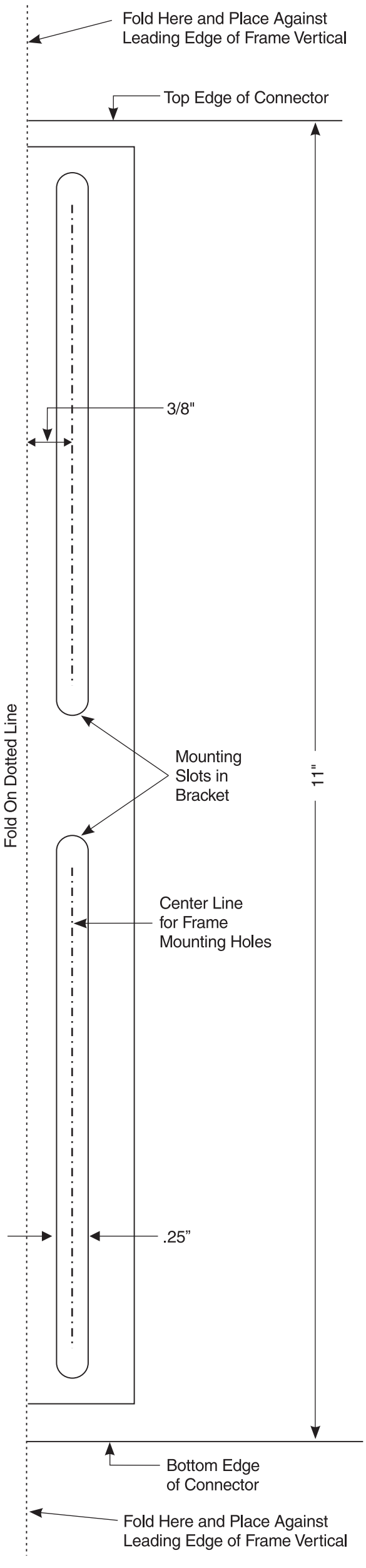

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RECOMMENDED MOUNTING PROCEDURES

1. The figure to the left is a mounting template to use as a guide in locating mounting holes on the vertical of the distribution frame. Cut out the two slots labeled "Mounting Slots in Bracket" and fold the paper along the dotted line.
2. On the frame vertical, locate and mark a starting point (representing the bottom edge of the lowermost 311-type connector). A minimum of 6-5/8 inches (168.3 mm) from the floor level is recommended.
3. Align the bottom edge of the template with the marked starting point.
4. Mark the position of the upper edge of the template on the frame vertical.
5. With the template in place, visually determine that a mounting hole is available within each slot of the template or, if two holes are available, in either slot. If not, a new mounting hole must be drilled and tapped, and located within a slot. Drill and tap a 12-24 NC thread. Two screws shall be used to mount the connector for adequate grounding purposes. (See reverse side for isolated ground requirements.)
6. Remove the template from the frame vertical and relocate to the next connector mounting position, aligning the bottom edge of the template with the mark previously made in Step 4.
7. Repeat Steps 4, 5, and 6 to ensure that each connector on the frame vertical has two mounting holes.

NOTE:

When a mounting hole is added to the frame vertical, it is important that it be located 3/8 inch (15.9 mm) in from the frame vertical edge to ensure that all mounting holes are in alignment.

INSTALLATION PROCEDURE FOR 1A SHUNT KIT

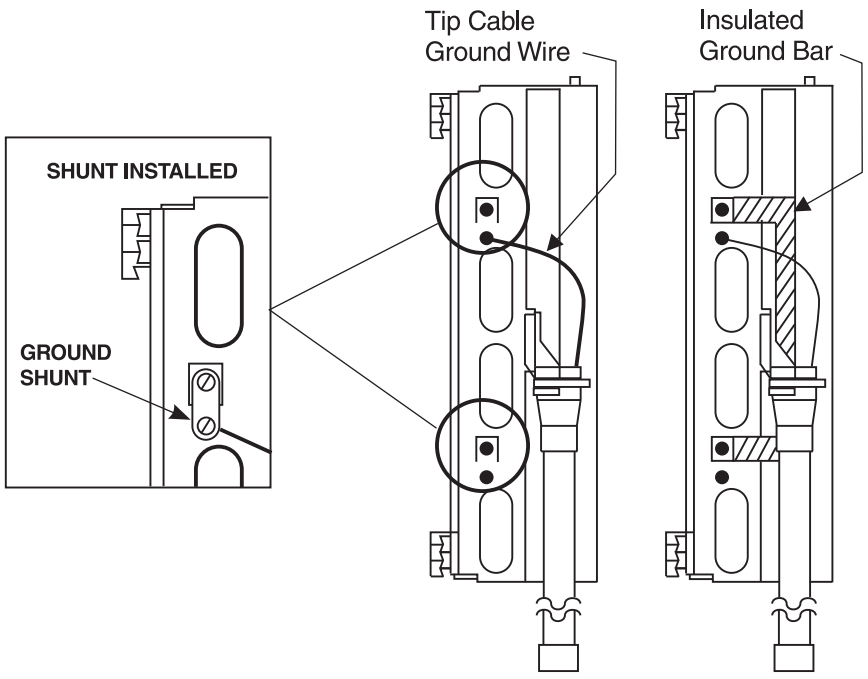

Fig. 1 Fig. 2

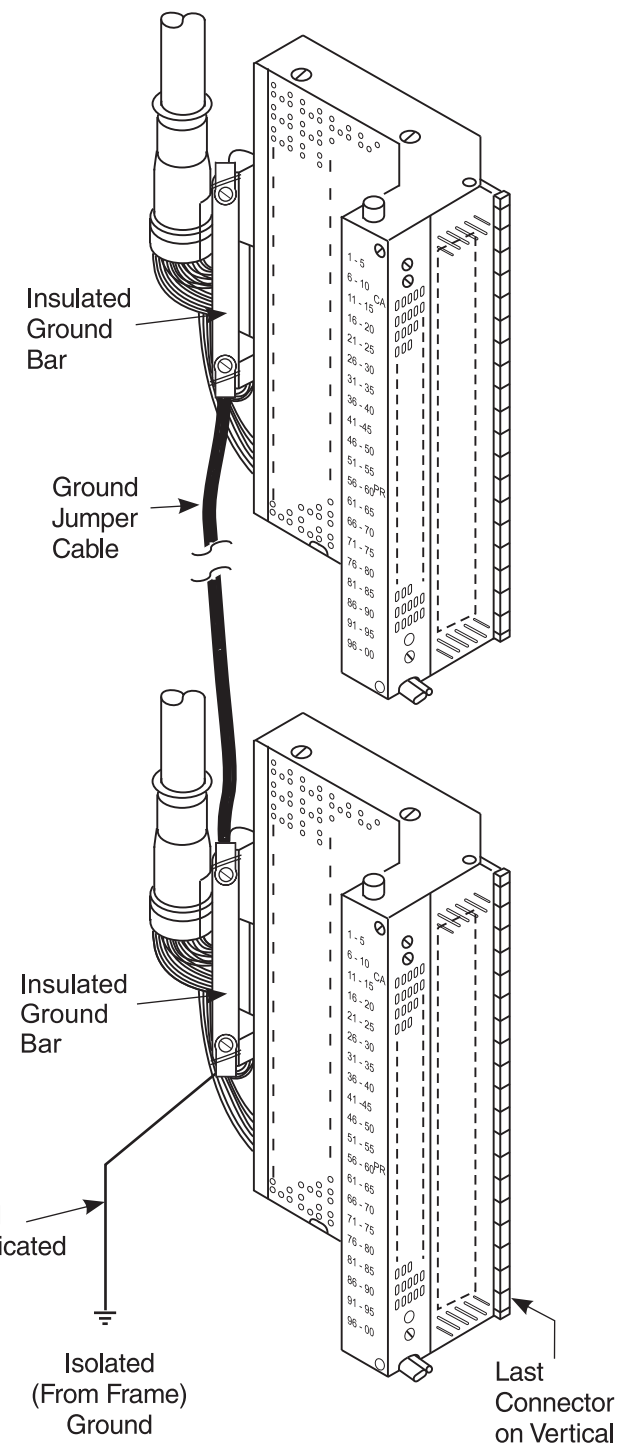

Fig. 3

NOTE:

The 311-Type Connector is shipped with two ground shunts installed that connect the internal ground system for the protectors to the connector's mounting bracket (Fig. 1). If the connector is installed on the distributing frame vertical in this "as shipped" condition, the distributing framework becomes part of the grounding network for the protector units used with the connector. If it is desired to isolate the protector ground system from the mounting bracket and the distributing frame vertical to which the bracket mounts, use the optional 1A Shunt Kit (Material ID 105 570 980) as follows.

USE THIS PROCEDURE ONLY WHERE PRACTICES REQUIRE AN ISOLATED GROUNDING SYSTEM

1A Shunt Kit Parts List	
1	Insulated Ground Bar
1	Ground Jumper Cable
2	No. 10-32 x 5/16-inch Screws
2	No. 10 Lockwashers
2	No. 10-32 Hex Nuts

1. Check parts for the 1A Shunt Kit.
2. Before mounting connector(s) on the frame, remove the tip cable ground wire from the upper ground shunt and remove both shunts (Fig. 1). Save the screws and lockwashers, but discard the shunts.
3. Reterminate the tip cable ground wire to the bracket (at the same location to which it was previously attached) using one of the screws and lockwashers removed in Step 2.
4. Install the insulated ground bar (as provided in the kit) as shown using two sets of screws and lockwashers removed in Step 2 (Fig. 2).
5. Mount the connector to the distributing frame vertical in the usual manner.
6. Using the screws, nuts, and lockwashers provided in the kit, connect the ground jumper cable (provided) between the top of the insulated ground bar of one connector to the bottom of the next insulated ground bar of the next connector. Continue until the ground bars of all connectors on the vertical are interconnected (Fig. 3).
7. Using an ohmeter or other test equipment, check that the insulated ground bar(s)s are properly isolated from the mounting bracket(s) of the 311-Type Connector(s).
8. Field fabricate and install (using No. 6 stranded conductor) a jumper cable from the insulated ground bar of the last connector on the frame vertical to the isolated ground point (Fig. 3).
9. Using an ohmeter or other test equipment, check that each insulated ground bar is electrically connected to the appropriate isolated ground point.