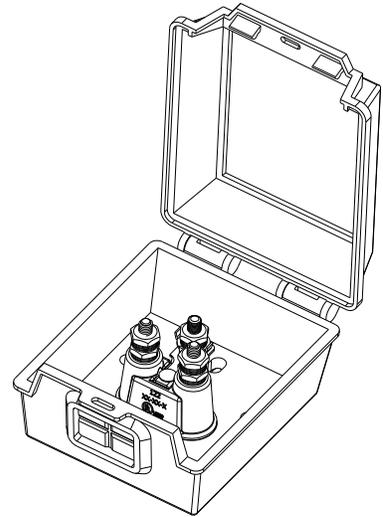


**Warranty:** If this unit fails during the warranty period, contact tii customer service to authorize return. Unit may be returned prepaid.



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**Model 344/345/348/349**  
Station Protectors



## Installation Note

### Description

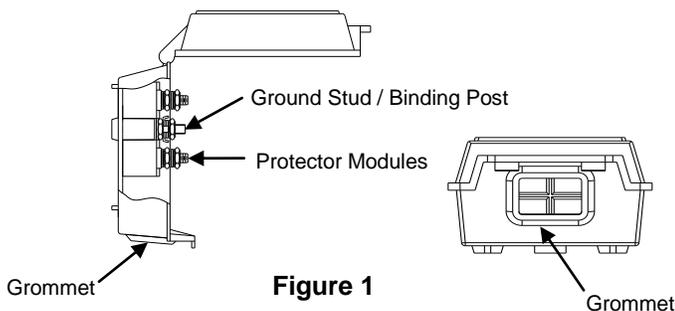
1. The tii Total Failsafe® TFS® Station Protectors are the basic components of tii Station Protectors and consist of a tii Surge Protector Module in a 160G BIG MAC® Utility Enclosure, with molded in-ground stud.
2. A large grommet is located in the center of the base lip to allow Telco cable, customer cable and grounding conductor penetration (See Figure 1).
3. The number of protectors that can be connected to various size copper-insulated ground wires are listed in Table A below.

**TABLE A**  
Ground Wire Capacity

Wire Size (AWG)	No. of Primary Protectors
12	1 to 2
10	3 to 5
6	6 or more

4. **National Electric Code Requirement.** The protector shall be installed per National Electric Code ANSI/NFPA 70, Article 800, Section C, and shall meet all applicable local safety codes.

### Features

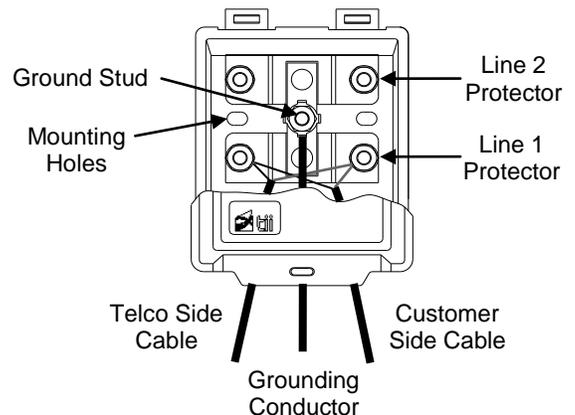


**Figure 1**

### Installation (Precautions)

1. Mount the station protector so as to minimize the possibility of dirt or moisture getting into the protector.
2. Station protectors mounted side-by-side or end-to-end should be placed so covers can be easily removed.
3. Where protection for multiple services is required, it is recommended that a protected building terminal in an interior terminal box be installed in place of station protectors.
4. Mount the station protector vertically on a flat surface using appropriate hardware (the length of the mounting screws should allow for 1/8" of length within the protector).
5. The mounting holes are covered with a thin film of plastic, easily punched out, to maintain the environmental integrity of the protector (See Figure 2).

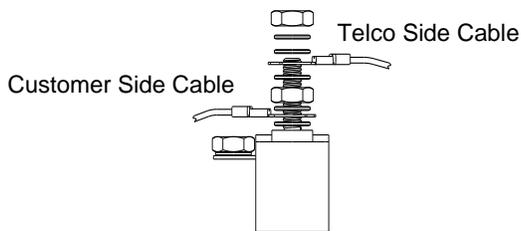
**Two Pair Wiring Scheme**  
Station Protector Housing



**Figure 2**

## Wiring

1. Insert the grounding conductor, the customer side cable and the Telco side cable through the grommet in the base of the protector.
2. Terminate one end of the grounding conductor (No. 6 AWG) on the ground stud / binding post and the other end to an appropriate ground source (See Figure 3).
3. Terminate the Telco Side cable in between the bottom set of washer and bottom nut of the appropriate stud (one conductor to Tip and one to Ring) and tighten down (See Figure 3).
4. Terminate the Customer Side cable under the top set of washers and the top nut of the appropriate stud (one conductor to Tip and one to Ring) and tighten down. (See Figure 3).
5. Loop back unused station wire conductors and coil around the station wire jacket or store in such a manner as to prevent them from coming in contact with protector terminals or bare wires.



**Figure 3**