tii network technologies

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Model 202 Series
Coax Rack Mount Module

Model 706 Series
DS-3 Protector Panel

TII 202   TII 706-23-1
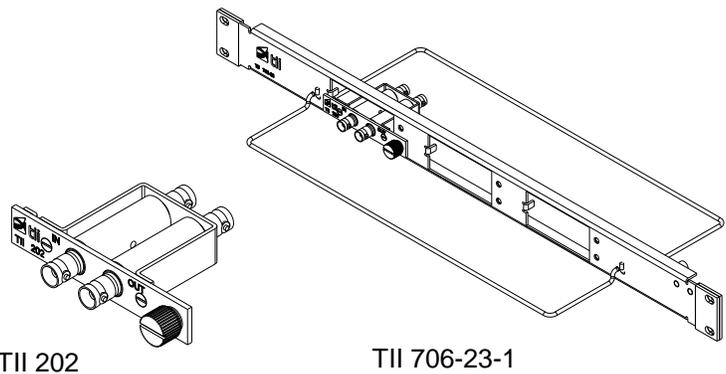
Installation Note

Description

1. This combined installation note covers the description and installation of the TII Series 202 and 706. The TII 202 is a Coax Protector Rack Mount Module. The module consists of (2) In-Line Coaxial Surge Arrester's. The TII 706 is a DS-3 Protector Panel designed to accommodate the TII 202 Series Rack Mount modules. The panel can accommodate up to (6) 202 modules.

2. The 706 Series panels are configured for industry standard EIA 1U 19" or 23" rack mount applications for structured cabling environments.

3. National Electric Code Requirements: The protector panel shall be installed per National Electric Code ANSI/NFPA 70, Article 800, Section C, and shall meet all other applicable local safety codes.

4. The 706 Series DS-3 Protector Panels are rack mountable and require no special tools for installation and maintenance.

5. The 706 panels have cable management brackets provided for ease of cable harnessing and securing.

6. The 706 panel and the 202 module are at the same ground potential, and are fully isolated from the equipment rack ground with insulators provided on the 706 panel.

7. The 202 Series Rack Mount Modules are designed to protect high speed Coax distribution networks from lightning and power induced excess voltage surges.

Installation

Additional Required Materials:

1. Ground Wire (#8 AWG Stranded)

2. (4) 10-32 x 1" Pan Head Machine Screws.

3. FCI - Burndy hand held ratchet crimping tool P/N: Y8MRB-1.

4. Cable Tie Wraps.

5. Philips Head Screwdriver.

Installing the 706 Panel:

1. Secure the 706 protector panel to the appropriate industry standard 19" or 23" EIA 1U rack (See Figure 1).

2. Using the (4) slotted holes on the panel secure the 706 to the rack with 10-32 hardware (See Figure 1).
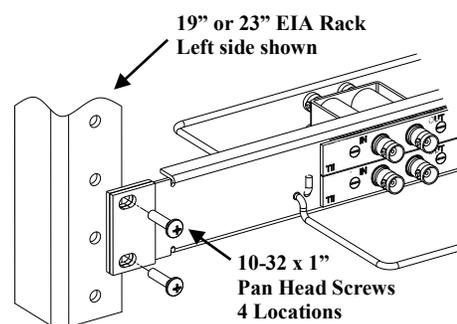
19" or 23" EIA Rack
Left side shown

10-32 x 1"
Pan Head Screws
4 Locations

Figure 1

Installing the 202 Module to the Panel:

1. The TII 202 module can be installed in any of the (6) locations that have threaded inserts.

2. The 202 module has to be installed to the 706 panel on an angle so that the coaxial surge protector bracket (hind left side) slides behind panel and captive fastener aligns with threaded insert (See Figure 2).

3. After alignment tighten fastener by hand until fully tightened.

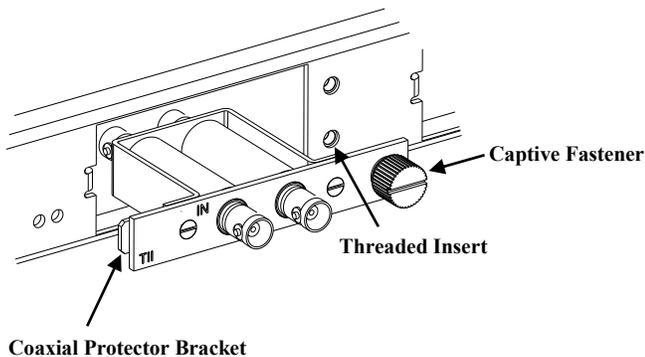4. Follow steps 2 and 3 for multiple 202 module installations.

Captive Fastener

Threaded Insert

Coaxial Protector Bracket

Figure 2

Wiring

Prepare and Route Cables:

1. Unplug (disconnect) the existing connection between the coaxial cable and the equipment's I/O port.

2. Connect the 202 module between the incoming coax cable from remote terminal and to be protected equipment (See Figure 3).
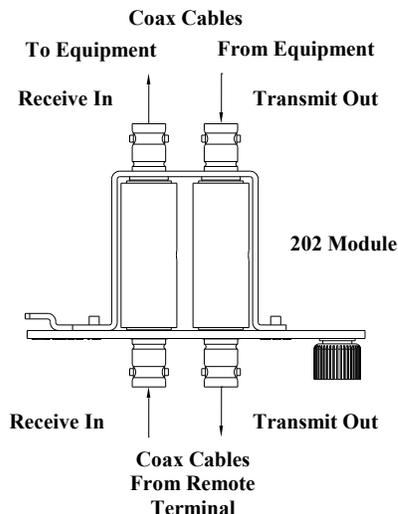

Coax Cables

To Equipment **From Equipment**

Receive In **Transmit Out**

202 Module

Receive In **Transmit Out**

Coax Cables From Remote Terminal

Figure 3

3. For multiple 202 module applications follow steps 1 and 2.

4. The 706 panels have cable management brackets provided for ease of cable harnessing and securing. Route cables to desired location and use a tie wrap to secure the cables to the cable management brackets (See Figure 4).
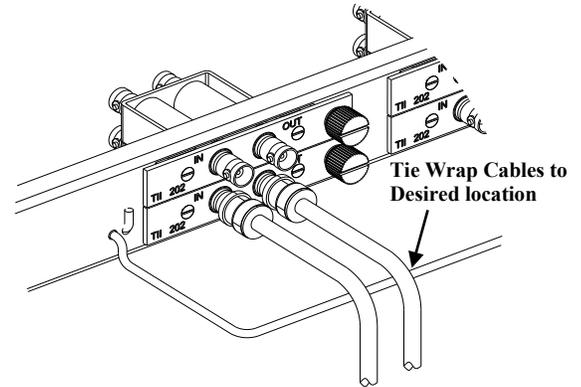

Tie Wrap Cables to Desired location

Figure 4

Prepare and Route Grounding Cables:

1. Remove the Burndy terminal lug from the 706 panel by removing the (2) #10-32 nuts from the mounting studs (See Figure 5).

2. Connect a #8 awg stranded ground wire from the remote terminal to the correct length that will reach the ground lug with strain relief.

3. Terminate the #8 awg wire to the compression lug using the Burndy (P/N: Y8MRB-1) hand held ratchet crimping tool.

4. Confirm that the #8 awg wire and the lug have been properly crimped.

5. Install the terminal lug and wire to the 706 panel using the (2) #10-32 nuts provide (See Figure 5).
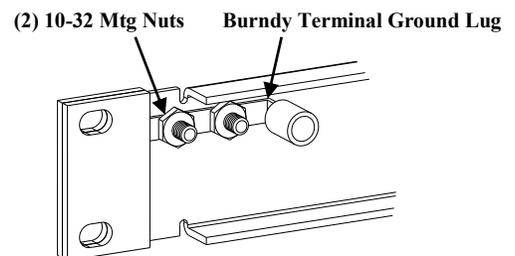

(2) 10-32 Mtg Nuts **Burndy Terminal Ground Lug**

Figure 5

6. The installer should confirm a proper earth ground connection. Try to keep the ground resistance from the 706 panel to earth ground to a minimum.