tii technologies

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Model 97FB-S
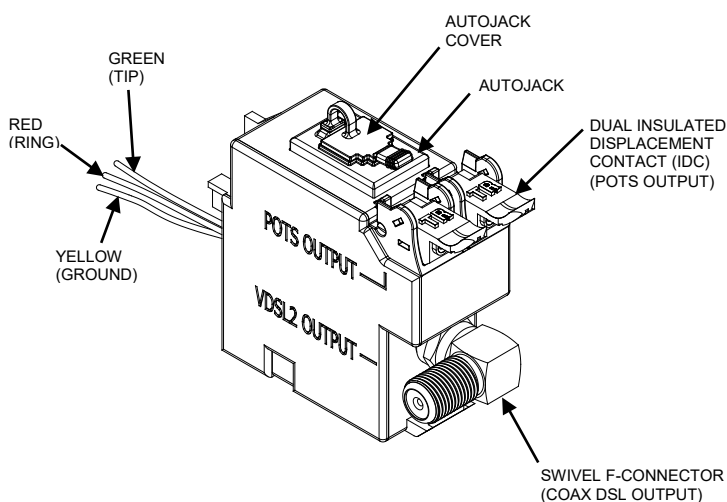DSL/POTS Splitter Balun
with 180° Swivel Connector
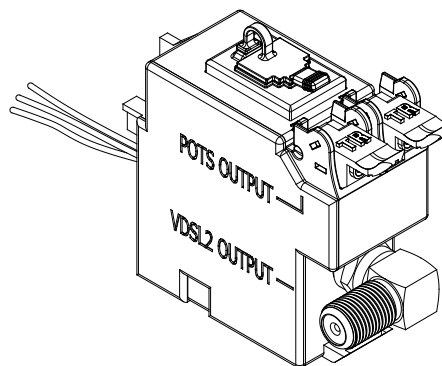
Installation Note

Description

1. The tii 97FB-S DSL/POTS Splitter Balun splits the VDSL and POTS signals in the NID. The splitter has outputs to both coax (VDSL) and twisted pair wires (POTS). One or both outputs may be used. The coax connector has a swivel option which allows the user to set the direction of the connector depending on the NID enclosure that it is being installed into.

2. The Splitter Balun is equipped with a customer test jack. Customer can insert the RJ-11 plug from a working telephone into this test jack to assure a signal is received from the central office. This is the only time the customer telephone wiring is disengaged from the central office.

Features

AUTOJACK COVER
AUTOJACK
GREEN (TIP)
RED (RING)
YELLOW (GROUND)
DUAL INSULATED DISPLACEMENT CONTACT (IDC) (POTS OUTPUT)
POTS OUTPUT
VDSL2 OUTPUT
SWIVEL F-CONNECTOR (COAX DSL OUTPUT)

Installation

Installing the 97FB-S into a Network Interface Device

1. Loosen the NID customer access cover screw.

2. Loosen the interior Telco access bolt to access the Telco side of the NID.

Telco Shield Screw
Telco Access Screw
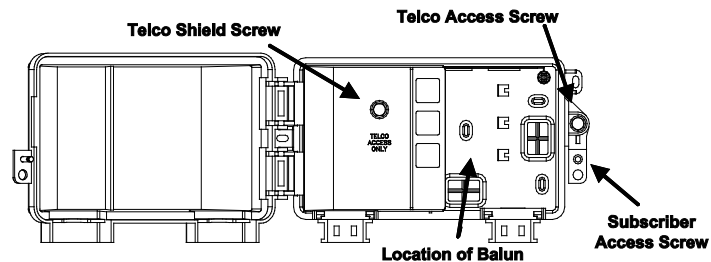Subscriber Access Screw
Location of Balun

Figure 1

3. The 97FB-S best occupies the lowest slot in the customer side of the NID. When placed this way, the F-connector for the coaxial cable is closest to the customer side bottom wire entry grommet. Turn swivel coax connector end towards the cable entry grommet for proper installation (See Swivel F-Connector Instructions Figure 4). With clear access to the wire entry grommet, other CBM modules do not obstruct wire access to the F connector. Placing the 97FB-S in the lowest position also prevents the F-connector from protruding into space which can be occupied by other CBMs.

4. With the Balun turned so the wires are towards the primary protector side, slide the Balun locking tab under the NID retaining tab as shown in Figure 2.
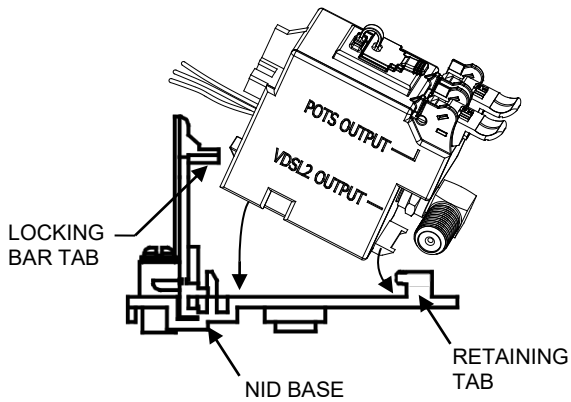
Figure 2

5. Pull the NID locking bar to the left as you press the Balun down so the feet are fully engaged in the corresponding NID slot. Release the NID locking bar so the tab holds the Balun securely in place.

Termination of POTS & VDSL Cables

1. There are two IDC Rockers on top of the unit. Straighten out the customer's POTS line wires. Do not strip the wires. Lift the rocker to the upper most position.

2. Slide wires into the rockers until the wires are fully inserted. Push the rocker all the way down to complete the POTS line termination process.

3. Repeat the above steps if there are more than one customer POTS line wires to be terminated on the second rocker.

4. Prepare the coax cable end by installing the F-Type Male Coax Connector. Align the coax connector so that the center conductor of the coax cable is leading to the Female F-Type Coax Connector on the TII 97FB-S.

5. Twist on the VDSL Coax Cable with the F-Type Male Connector to the TII 97FB-S. Make sure the F-Connector is firmly attached to the unit.

Final Installation Steps

1. Terminate the yellow wire to a ground lug. Terminate the Green Wire (TIP) and the Red Wire (RING) to the Station Protector being used as per the manufacturer's instructions.

2. Close and secure NID cover.

Central Office Signal Testing

1. Open the Autojack Cover (See Figure 3).

2. Using a working telephone, insert telephone RJ-11 plug into the customer test jack (See Figure 3).

3. Wait a few seconds, lift receiver and listen for a dial tone.

4. If dial tone is not present, check connection to the primary protector. Once the connections are verified and dial tone is still not detected, contact the phone service provider.

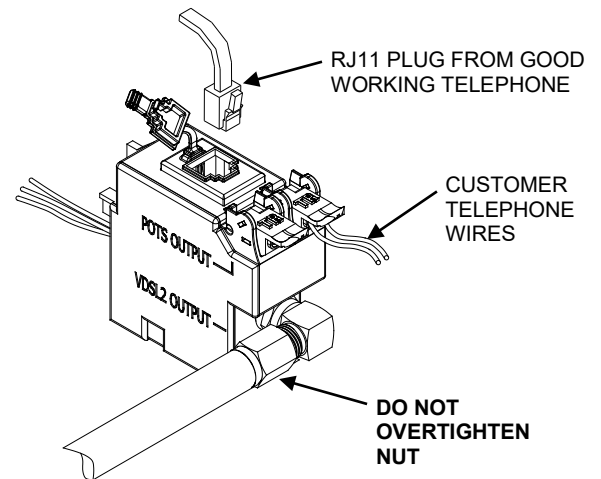5. If the dial tone is present, then the phone line service up to the Splitter Balun is functional.

Figure 3

Swivel F-Connector

1. When it is necessary to reverse the direction of the coax connector, the retaining nut on the 90° coax swivel adapter must be loosened. Then rotate the coax connector 180° and retighten the retaining nut (See Figure 4). **Do not** over tighten the retaining nut.
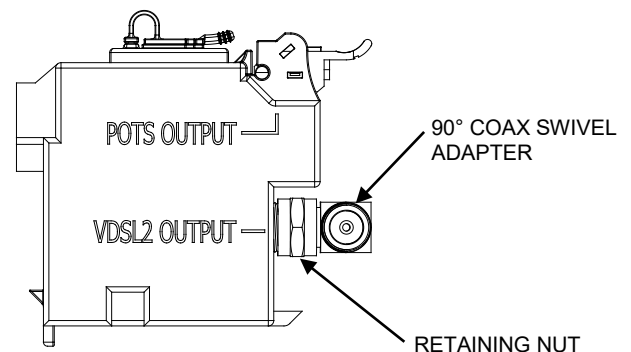

Figure 4