

## Installation Procedures – DropCheck™ 6300-DC-RF

### 1.0 General Product Information

These instructions provide the description and installation of Broadband Telecommunications' (BBT) DropCheck™ 6300 DC RF coaxial fault protection device. DropCheck™ consists of two pieces that must both be installed in order for the product to function properly. DropCheck™ is designed to be installed in 60 Hz network powered broadband communications systems, **low power application only** (40-90 Vac-rms). Use of this product will allow the user to comply with the condition of NEC Article 830-12(c) exception regarding the need for 18-inch burial of 60 Hz powered drops. The device shuts power off at the RF tap when one of three conditions exists. 1) When there is a ground fault on the coaxial drop cable center conductor, 2) when an open circuit exists due to the cable being cut entirely through or the cable being disconnected, or 3) when a leakage current of 0.5-5.0 mA exists between the coaxial drop cable center conductor and coaxial cable shield. The product is intended to be used with a Listed SIU or RSU with a maximum 25W load and 75 ohm coaxial cable with F-fittings.

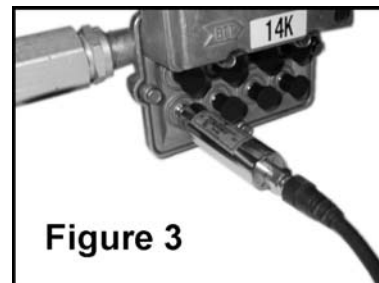
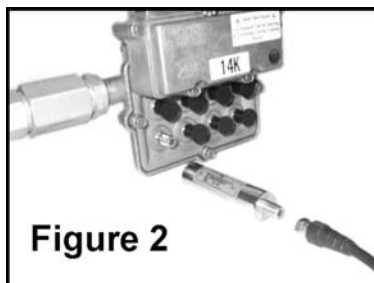
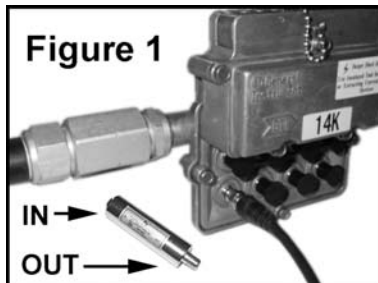
### 2.0 Required Materials

- Installation instructions
- 7/16" open end 30 inch-lb rated torque wrench or equivalent required for drop connectors being installed
- One set DropCheck™ devices. (One tap unit and one premise unit makes up a set)
- Broadband's PowerPen tap test device.

### 3.0 Installation Instructions

The "Tap End" DropCheck™ must be installed between the power passing tap and the drop cable. Check the tap for power using BT's PowerPen. The male F-connection (marked "IN") of the "Tap End" DropCheck™ is installed into the tap. The male F-connector on the cable should be installed using a 30 inch pound F-connector torque wrench into the female F-port (marked "OUT") on the "Tap End" DropCheck™. (See figures 1,2,3)

PLEASE NOTE: DropCheck™ units can be damaged if torqued over 30 inch pounds.

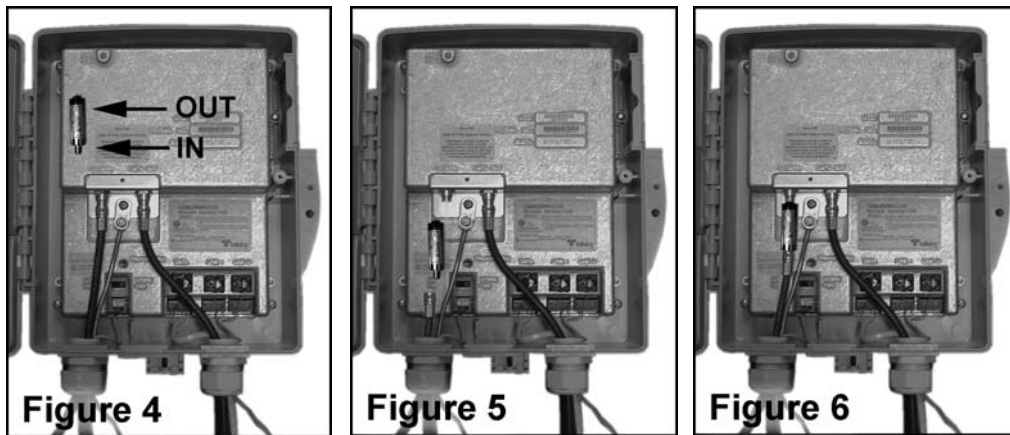


For more information contact:

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The “Premise End” DropCheck™ must be installed between the drop cable and the RSU equipment. The male F connection (marked “OUT”) of the “Premise End” is installed into the female F-port of the RSU. The male F-connector on the drop cable should be installed using a 30 inch pound F-connector torque wrench into the female F-Port of the “Premise End” DropCheck™ (marked “IN”). (See figures 4,5,6)



PLEASE NOTE: DropCheck™ units can be damaged if torqued over 30 inch pounds.

*After DropCheck™ is installed and power applied, the device can take up to two minutes to check the cable, reset, and be working properly.*

#### 4.0 Troubleshooting

If after waiting 2 minutes with the power applied and no signal is available at the home (no power passing through the DropCheck™ devices) the likelihood is that DropCheck™ is working as designed. A ground fault or an open circuit exists in the cable path. Use Broadband's Handheld Drop Cable Tester to confirm a fault and to determine if it is an open circuit or a center conductor ground fault.

Check to be sure that both ends are screwed in tightly at the tap and the RSU respectively.

Check to be sure the cable F-connectors are securely installed into the DropCheck™ devices.

Check the connector installation on the cable. Be sure that the outer conductor is securely captured by the connector and that no outer conductor tapes or braid wires are shorting to the center conductor.

If there is still no power at the RSU and power is available with DropCheck™ removed, then the center conductor of the drop cable has a ground fault and must be repaired or replaced.

If the RSU does not power up with the installed DropCheck™ devices then a test of the drop system should be next. Check the connectors on the ends, replace if necessary. Or disconnect the devices from the drop cable between the RSU and tap. Replace with a 150 ft drop cable known to be good. If there is power to the RSU then the center conductor of the original buried drop cable has a ground fault and must be replaced.

**Note: Specifications subject to change without notice**

US Patent Nos. 5,793,590 and 6,462,923.

UL Listed UL DUAA Coaxial Fault Protector for Network Powered Broadband Communications Systems

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