

Troubleshooting Overview

Learning the proper techniques and installation procedure will save you time and money and yield maximum sweep test results. For more information, visit www.trilogycoax.com/products_wireless_constructionprac.shtml. This flyer outlines the major reasons of site performance issues and helps you to install a site as efficiently, safely and economically as possible.

Incorrect Installation Common Causes

- ⇒ Under-tightened connectors. Check the connectors.
- ⇒ Over-tightened connectors or cross-threaded interface connectors at the jumper, which crushes the interior cable. Check the connectors.
- ⇒ Connectors not fully seated.
- ⇒ Foreign material on inside of interface connector.
- ⇒ Improperly cleaned center conductor.
- ⇒ Wrong preparation length (can result from improper coring tool use but most likely is caused by failure to clean the tool).
- ⇒ Cable has been kinked at grounding kit.

Damaged Cable

- ⇒ The cable has been dented, kinked, crushed or pierced.
- ⇒ Cable is kinked at the ground.
- ⇒ If the cable is damaged, you will usually have to replace the whole run.

Faulty Test Equipment

- ⇒ Test unit is not properly calibrated. Test units must be factory calibrated according to manufacturer specifications.
- ⇒ Test equipment leads often need replacing and are easily damaged.
- ⇒ Damaged or otherwise bad adapters are common problems.
- ⇒ Using incorrect velocity of propagation or attenuation figures for AirCell® Transline Cables (91% velocity of propagation for all 50 Ohm AirCell® Transline cables should be used). Refer to the summary on page 2 for additional information. Visit www.anritsu.com for the latest update for using the testing equipment.

Distance to Fault Spike

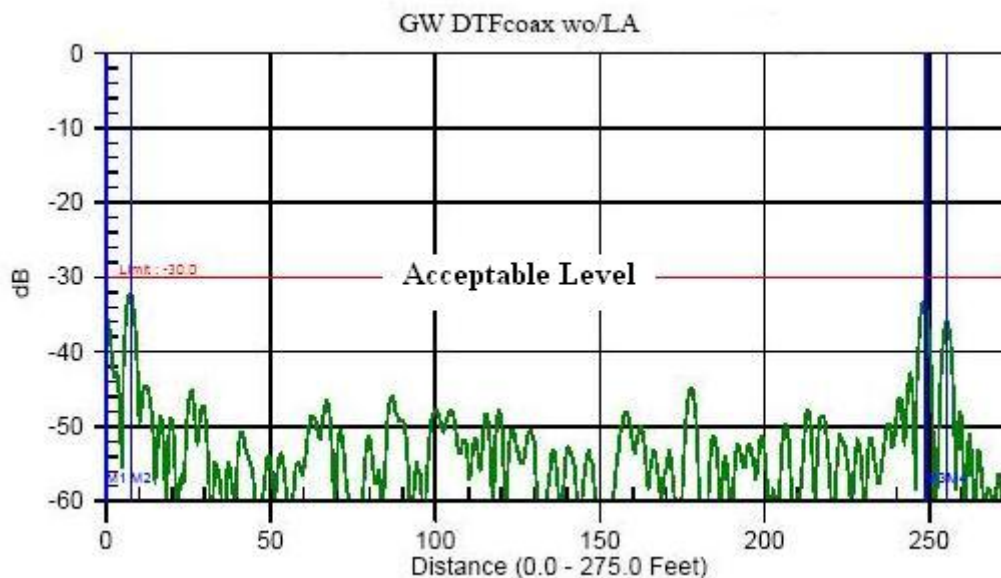
- ⇒ A distance to fault spike is mostly commonly caused by damaged cable, improperly installed connector or test equipment problems.

If you have questions, call our 24-Hour Field Technical Assistance line:
800-Trilogy (874-5649)

Velocity of Propagation and Attenuation Summary AirCell® Transline Coaxial Cable, 50 Ohm

Product Code	AT012J50	AT058J50	AT078J50	AT114J50	AT158J50
Cable Size	1/2"	5/8"	7/8"	1-1/4"	1-5/8"
Velocity of Propagation	91	91	91	91	91
Attenuation dB/foot					
450 MHz	0.015	0.011	0.007	0.005	0.004
960 MHz	0.023	0.016	0.011	0.009	0.006
1800 MHz	0.032	0.023	0.016	0.013	0.010
2000 MHz	0.034	0.025	0.017	0.013	0.010

Typical AirCell® Distance to Fault Result-dB Level
Unique AirCell® Dielectric design has wider variation, reflecting fully-hermetically sealed, fully-bonded discs.



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