



RF Characterization Report

RFC6T-74SP3-74SP3-XXXX



RFC6T-74RP3-74RP3-XXXX



RFC6T-H4SP3-H4SP3-XXXX



RFC6T-78SP4-78SP4-XXXX



Description:
12G-SDI, 75 Ohm RF Cable Assembly, 4694R Cable

Series: RFC6T

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Test Setup Information

Scope:

Testing performed evaluates the electrical performance of non-standard impedance products RFC6T series to 12 GHz. Evaluated RFC6T-74SP3-74SP3-XXXX, RFC6T-74RP3-74RP3-XXXX, RFC6T-H4SP3-H4SP3-XXXX and RFC6T-78SP4-78SP4-XXXX cable assemblies' performance over a frequency from 10 MHz to 15 GHz. All measurements were performed using 50-ohm to 75-ohm cable adaptor assemblies and the open adaptor removal test method. Fixture models (75 Ohms cable with DUT Jack connector) are generated using OPEN method in PLTS, and AFR methods will de-embed mixed impedance fixturing effects by Keysight Technologies Automated Fixture Removal (AFR) software tool.

Instrument Setup & Test Accessories:

Network Analyzer	Keysight PNA N5227B
Averaging Factor	1
Smoothing	Off
IF Bandwidth	1 KHz
Sweep Start	10 MHz
Sweep End	20 GHz
Points	2000
Test Cables	Gore 0F0CACB036.0-LF (DC to 67 GHz)

Calibration Type:

A Keysight electrical calibration is performed for N5227B using the Keysight ECAL 4694A.

Calibration Kit	Keysight ECAL 4694A
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Adapter Use:

All adaptor cable assemblies were supplied by Coax Connectors Ltd, as singled ended 75-ohm assemblies. The second end of each assembly was then terminated with the 50-ohm SAMTEC P/N: SMA-P-C-HF-ST-C10.

P/N: 90-52D00-72A-S1-15, DIN1.0/2.3 Jack to Free End Belden 1855ENH - 150mm

P/N: 90-10D00-72A-S1-15, BNC Jack to Free End Belden 1855ENH - 150mm

P/N: 90-67D00-72A-S1-15, Micro BNC Jack to Free End Belden 1855ENH - 150mm

The cable adaptor assembly effects were removed from the measurements using fixture removal method, no adaptors effects are included in the test results.

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RFC6T-XXXXX-XXXXX-XXXX Test Definition

Part Number	End 1	End 2
RFC6T-74SP3-74SP3-XXXX	75 Ohm BNC Plug	75 Ohm BNC Plug
RFC6T-74RP3-74RP3-XXXX	75 Ohm BNC Right Angle Plug	75 Ohm BNC Right Angle Plug
RFC6T-H4SP3-H4SP3-XXXX	75 Ohm High Density BNC Plug	75 Ohm High Density BNC Plug
RFC6T-78SP4-78SP4-XXXX	75 Ohm DIN 1.0/2.3 Plug	75 Ohm DIN 1.0/2.3 Plug

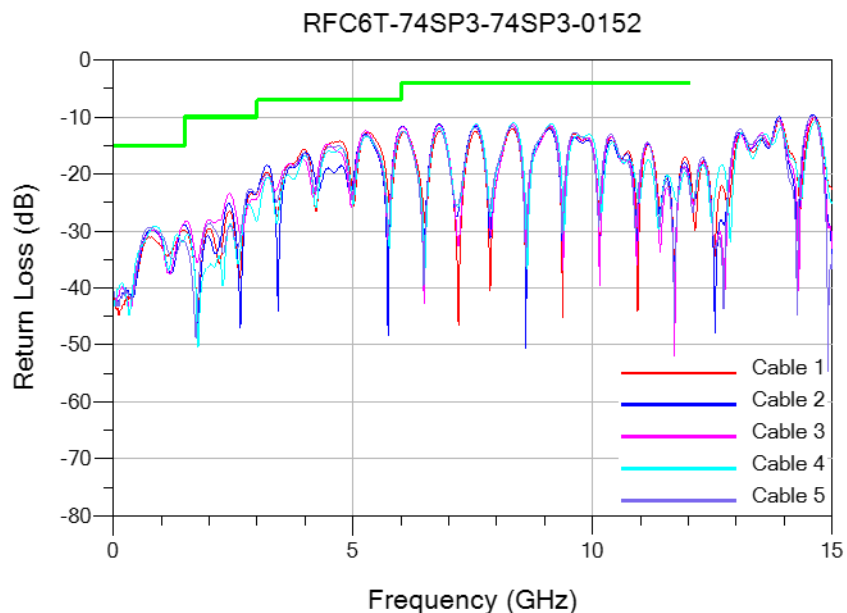
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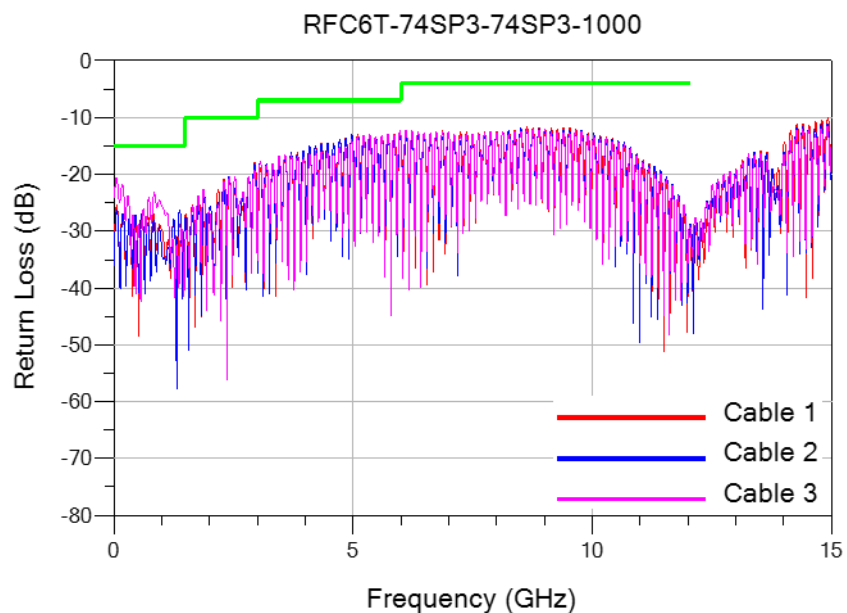
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Return Loss Results: RFC6T-74SP3-74SP3-0152



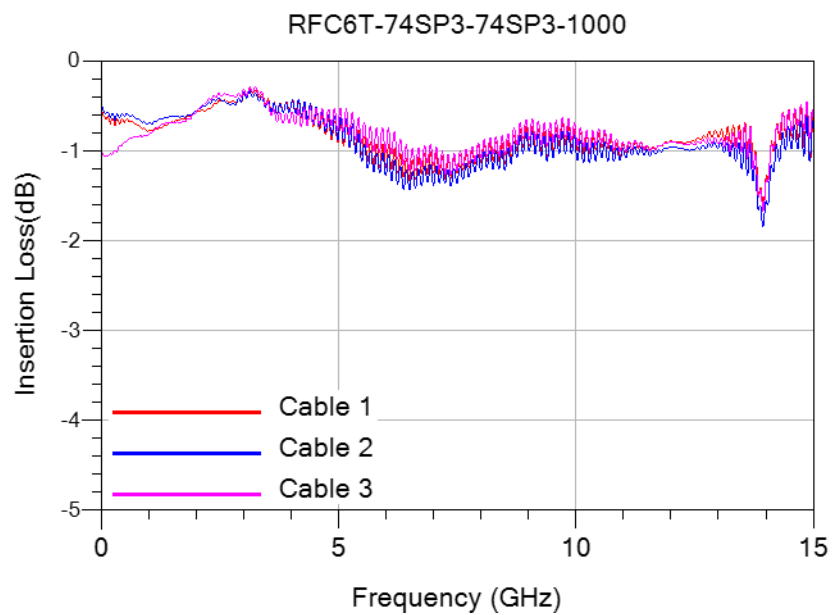
Return Loss Results: RFC6T-74SP3-74SP3-1000



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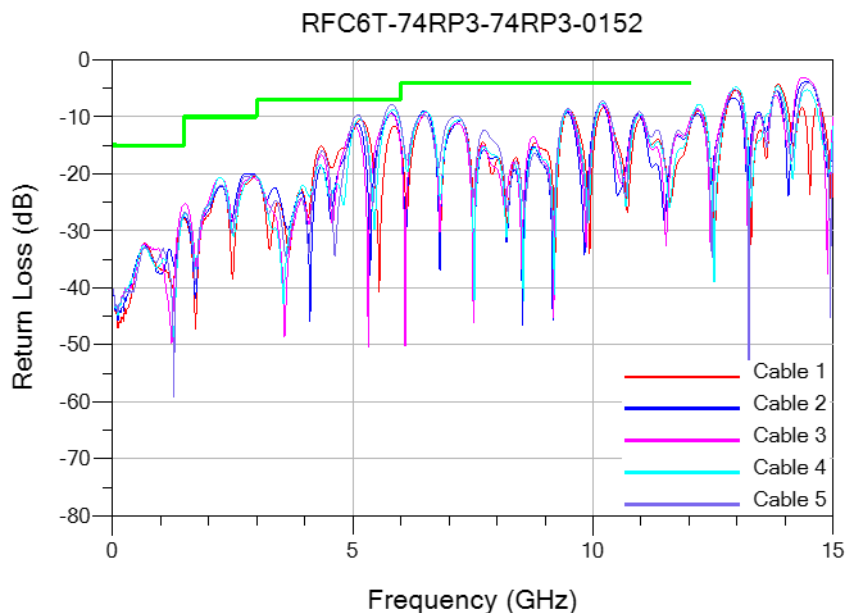
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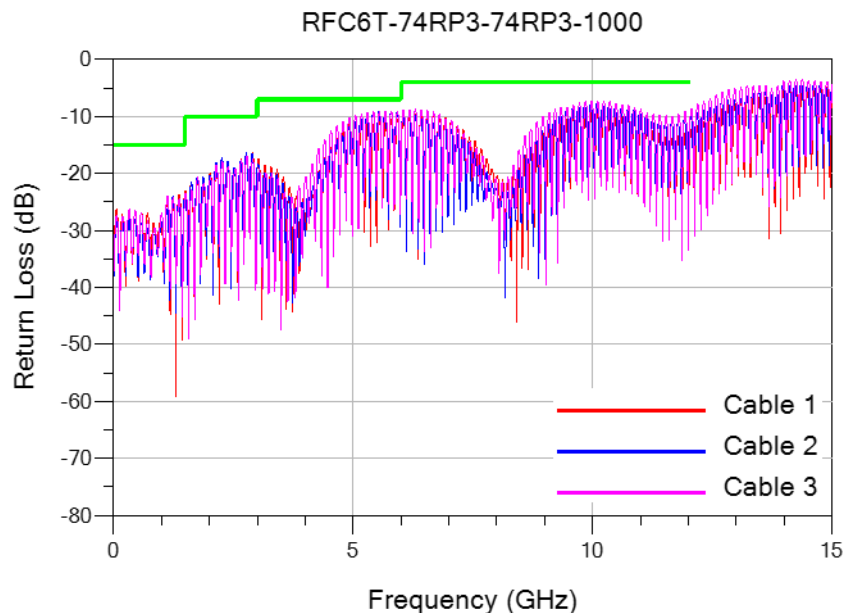
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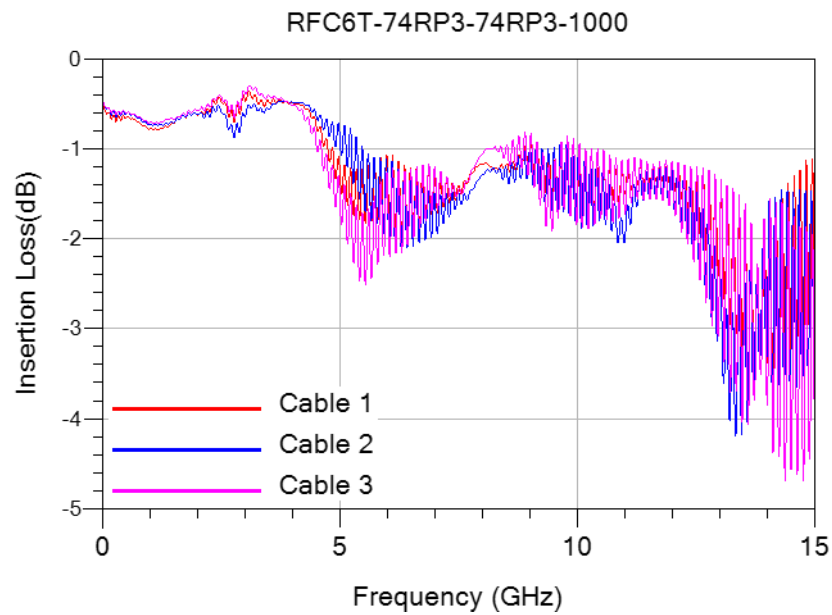
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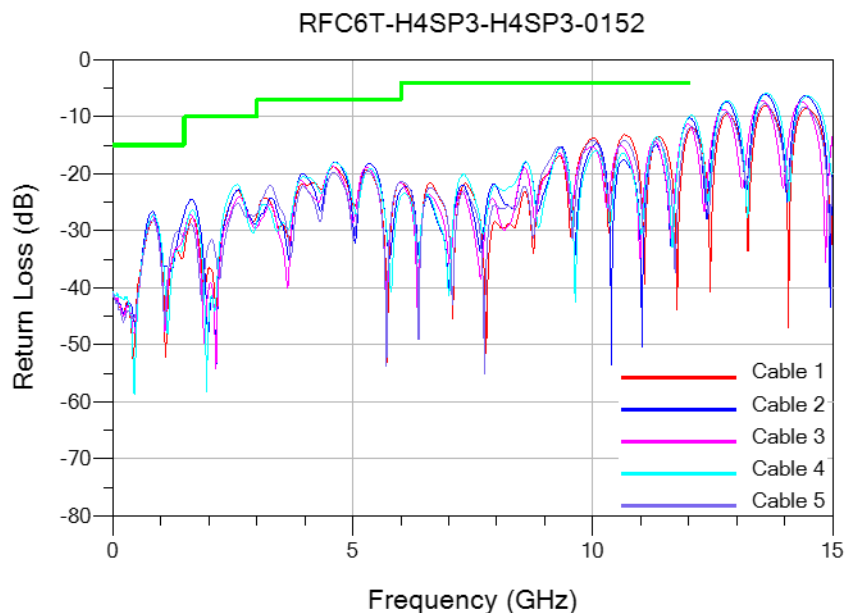
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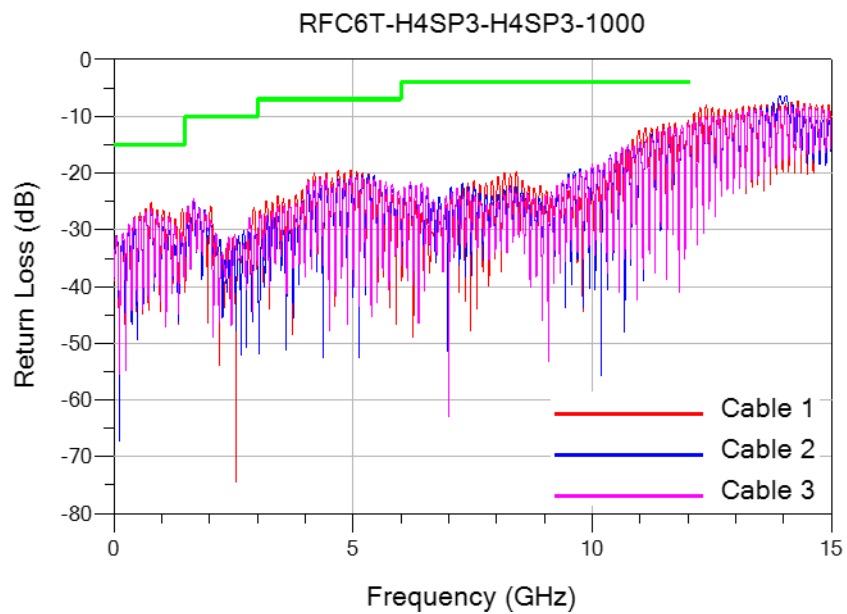
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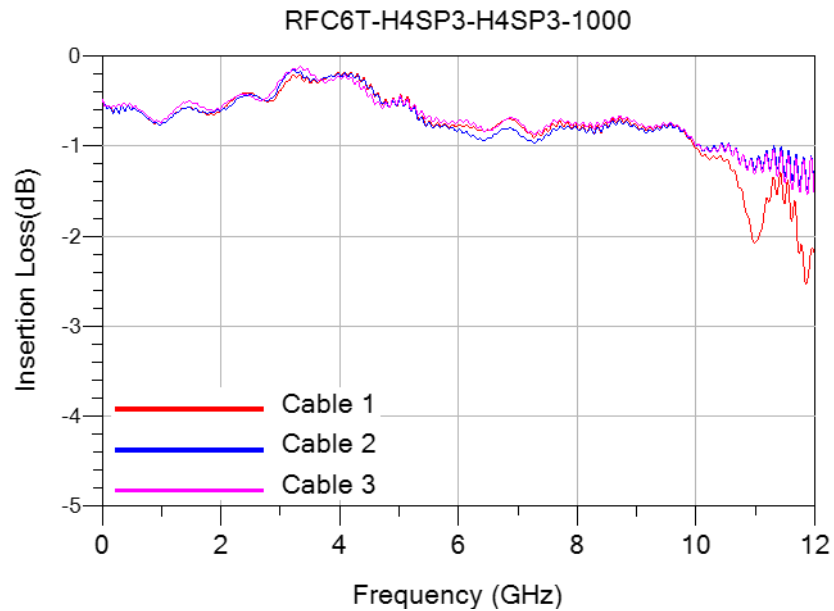
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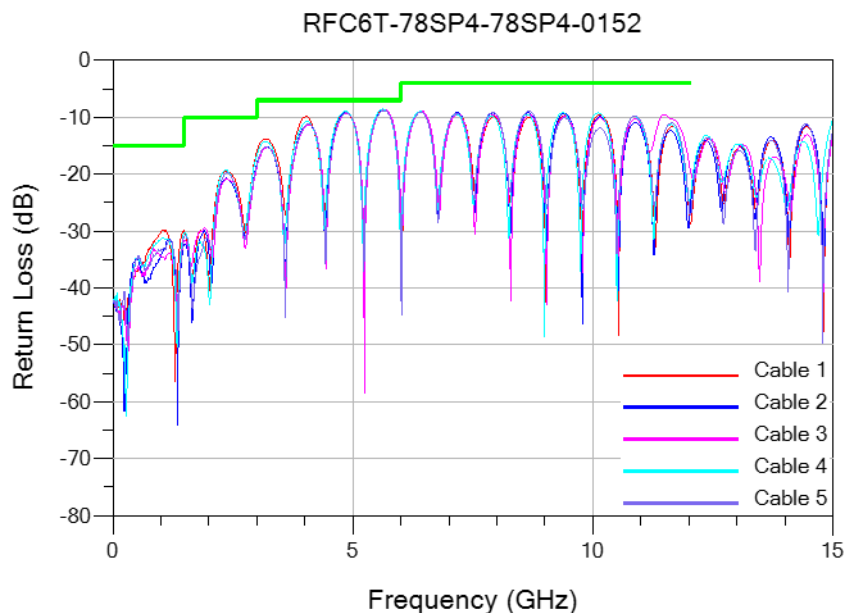
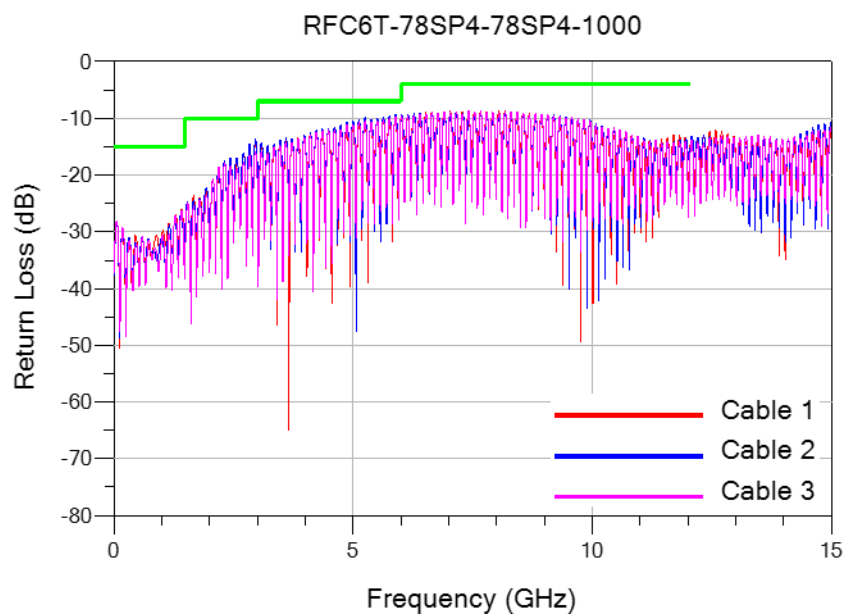


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Series: RFC6T**Description:** 12G-SDI, 75 Ohm RF Cable Assembly, 4694R Cable**Return Loss Results: RFC6T-78SP4-78SP4-0152****Return Loss Results: RFC6T-78SP4-78SP4-1000**

Series: RFC6T

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Insertion Loss Results: RFC6T-78SP4-78SP4-1000

