



RF Characterization Report

RF402 Series Cable Assemblies

RF402-01RP1-01RP1-0305



Description:
**RF Cable Assembly, RG402 19 AWG,
Semi-Flexible Coaxial Cable**

Series: RF402

Description: RF Cable Assembly, RG402 19 AWG, Semi-Flexible Coaxial Cable

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Test Setup Information

Scope:

To perform characterization tests, Insertion Loss, Return Loss and Voltage Standing Wave Ratio.

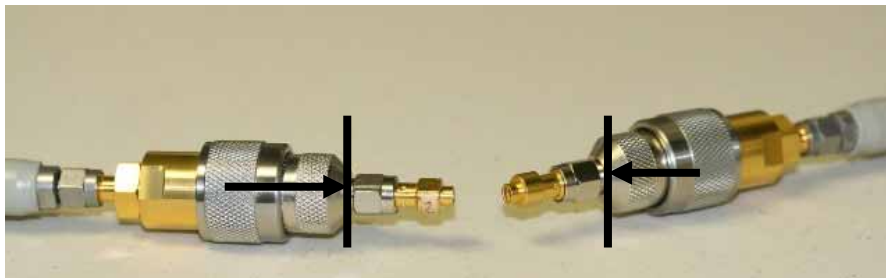
Product Description:

The table below presents a description of the RF402 series cable assembly that was tested.

Part Number	Length	Termination – End 1	Termination – End 2
RF402-01RP1-01RP1-0305	305mm	SMA, RA, Plug	SMA, RA, Plug

Test Calibration:

Calibration is performed using Agilent mechanical calibration kit, PN 85052D to the calibration point below. Any adapters beyond this point are included in the measurements.



(Sample setup of adapters, actual setup not depicted.)

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Adapter Use:

Each port uses at least one precision adapter capable of mating to the assembly under test. Any supplementary adapter will contribute additional electrical characteristics to the measured data. Any use of additional adapters is noted.

Definition of Assembly under Test:

The performance characteristics include the interface with adapters.

Port Designations:

The connector attached to port 1 of the VNA is "End 1" from the part number callout. Insertion Loss is measured using S21 and Return Loss / VSWR is measured using S11.

Legend for Plots:

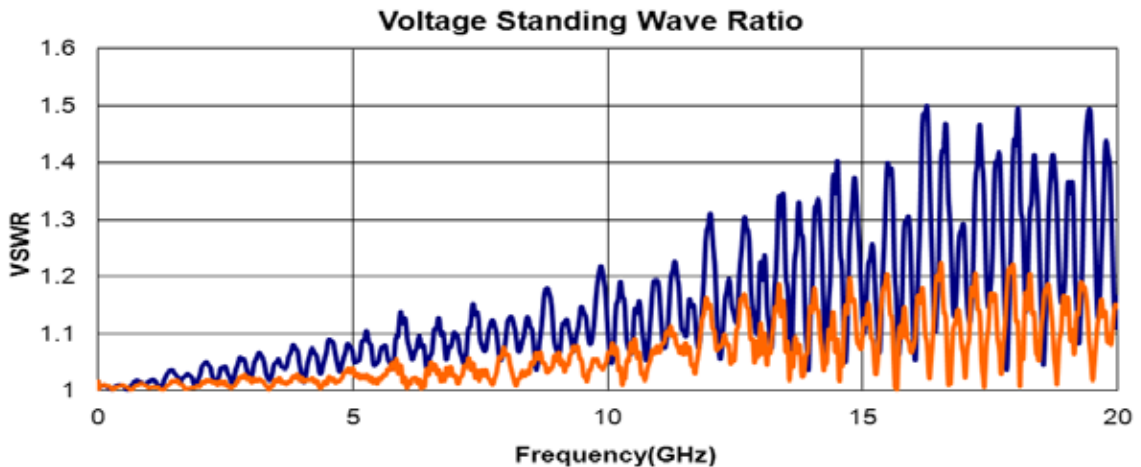
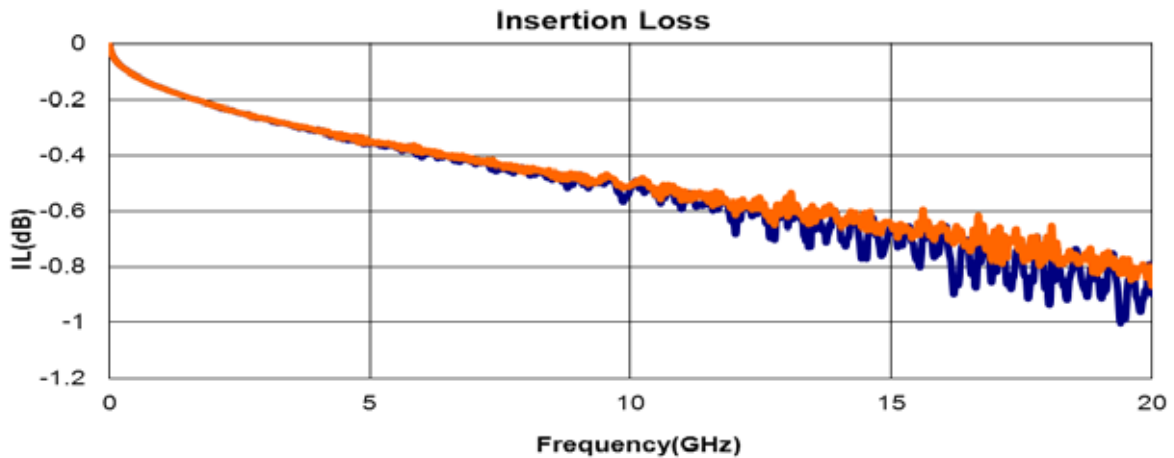
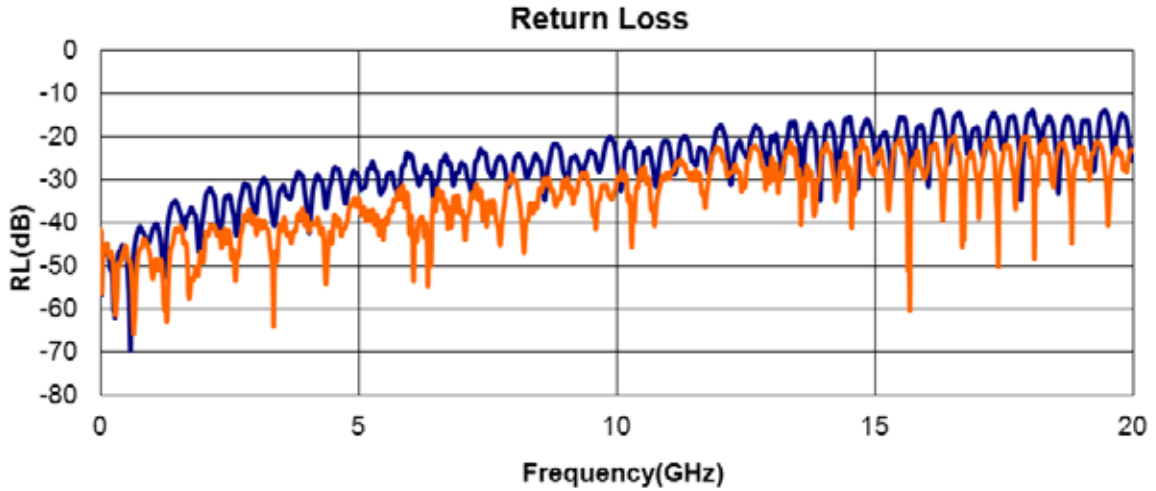
5 samples were tested. Base on the insertion loss, the min/max plots are shown for clarity in this report.

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Results Summary

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Instrument Setup:

Network analyzer (Agilent N5230C) was used for the measurements and setup as below:

Network Analyzer	Agilent N5230C PNA-L Series (300 KHz - 20 GHz)
Mechanical Calibration Kit	85052D

Averaging Factor	0
Smoothing	Off
IF Bandwidth	1 KHz
Sweep Start	300 KHz
Sweep End	20 GHz
Points	1601

Test Fixtures:



N5230C (Typical set-up, actual part not depicted.)