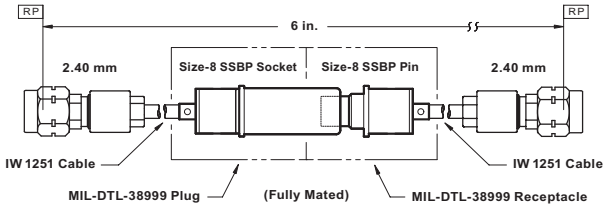
## *SSBP* - 8

***Test Data for 50600-003P & 51600-003S and Test Data for 50600-001P & 51600-001S***

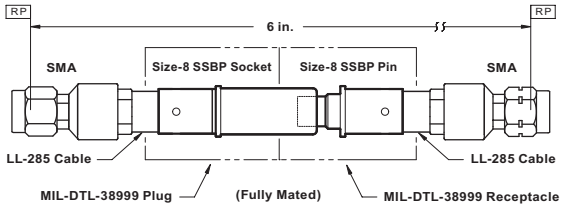
### *Test Measurement Reference*

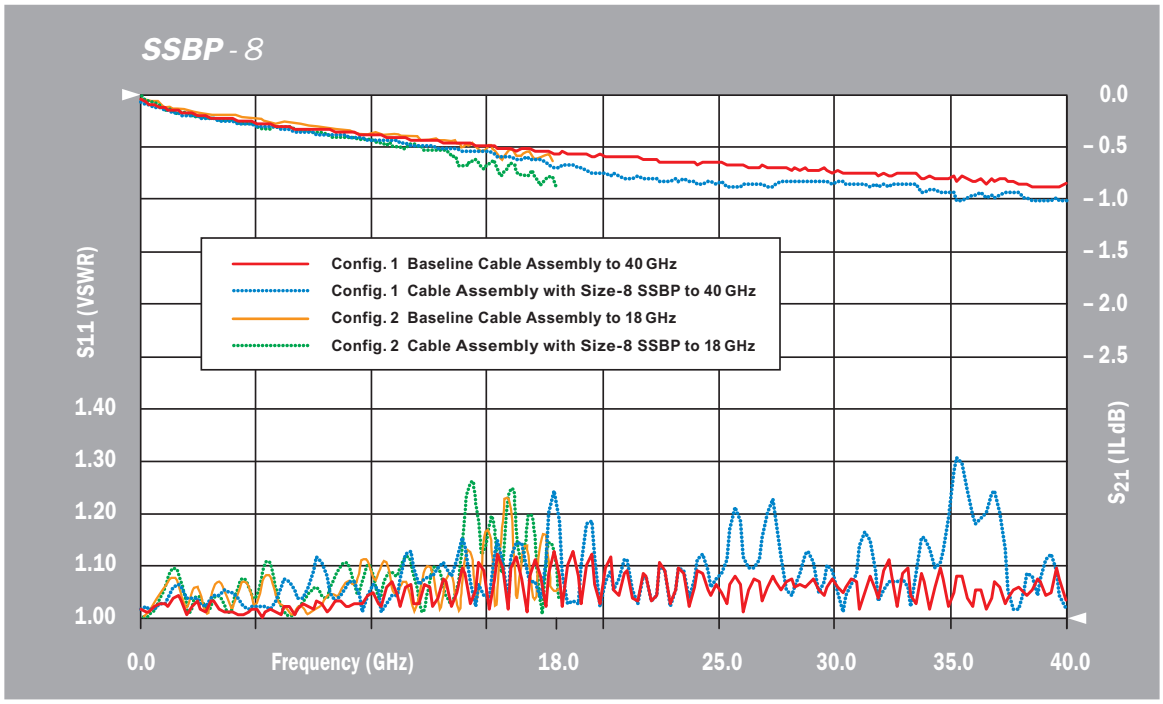
All data was measured using an HP VNA 8510C with 2.40 mm test port connectors. Calibration was broadband SOLT (sliding load). Two sets of cables were measured. ***Configuration 1:*** Cable assemblies were made using Insulated Wire IW 1251 cable with two field-replacable 2.40 mm plug/male connectors produced by Southwest Microwave. Frequency range was DC to 40 GHz. ***Configuration 2:*** Cable assemblies were made using larger dia. Harbour LL-285 cable with SMA plug/male connectors. Frequency range was DC to 18 GHz. Adapters needed to interface with 2.40 mm VNA ports were de-embedded. The baseline cable assemblies and the cable assemblies with Size-8 SSBP coaxes installed all were 6 inches between the reference planes of the applicable plug/male connectors. Both halves of each mated cable assembly pair were made phase equal (same electrical length). The SSBP cabled coaxes were installed in mated pairs of MIL-DTL-38999 Series III connectors.

***(Configuration 1)***
***Field-replaceable 2.40 mm plug connectors and Insulated Wire IW 1251 cable mated with Size-8 SSBP***




***(Configuration 2)***
***SMA plug connectors and larger dia. Harbour LL-285 cable mated with Size-8 SSBP***




**Comparison of Config. 1 & 2 baseline cable assemblies to cable assemblies with Size-8 SSBP connectors.**