

UTIFLEX[®] Flexible Cable Assemblies High Vacuum/Altitude

Micro-Coax cable assemblies were tested for their ability to withstand high vacuum/altitude conditions per MIL-STD 810, Method 500.3, Procedure II.

The cable assemblies were placed in a vacuum chamber. The insertion loss and return loss of the samples were measured and recorded. Next, the vacuum chamber was evacuated to 1×10^{-5} torr or less. The insertion loss, return loss, and insertion phase of each cable assembly was measured continually in five minute increments for one hour. The cable assembly performance did not change while in the vacuum chamber.

The chamber pressure was returned to ambient. The insertion loss, return loss, and insertion phase of the cable assemblies were measured again. The cable assembly performance did not vary from the initial measurement. The cable assemblies were removed from the chamber and visually inspected. No physical change from before the vacuum environment was evident.