

NEXT GENERATION WAVEGUIDE TECHNOLOGY

HIGH FREQUENCY • FLEXIBLE CABLE • SMALL FORM FACTOR • LOW LOSS DIELECTRIC

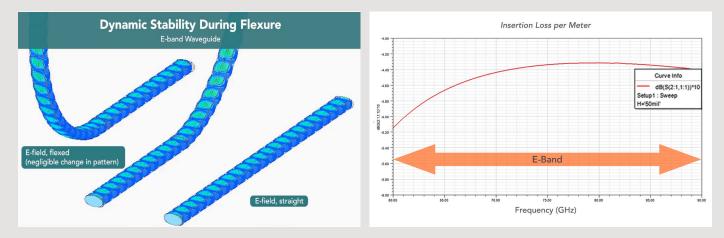
Samtec's new, high-frequency micro waveguide technology is designed to support the demands of next generation systems by targeting millimeter wave frequencies. Higher frequencies often require the use of rigid, metallic waveguides. However, Samtec's innovative technology provides an alternative solution that is **flexible**, **easier to use**, and **lower cost**, while also maintaining **low insertion loss**.

FEATURES

E-Band: 60 GHz to 90 GHz Flexible Cable with Dynamic Stability Ultra-Small Form Factor Low Loss Dielectric



E-Band (60 GHz to 90 GHz), In-Development



To view the e-field animation visit samtec.com/waveguide-dynamic-stability Recent simulated testing demonstrates an approximate 4.5 dB/m of loss.

WAVEGUIDE COMPARISON

Samtec's Next Generation High-Frequency Micro Waveguide Technology offers a number of mechanical and electrical benefits compared to Rigid Waveguide and Standard Low-Loss Microwave Coax Cable Transmission Lines. These include:

- Less signal loss than standard microwave coax cable
- Flexible, easier to use and lower cost than traditional metallic rigid waveguides



PERFORMANCE COMPARISON (vs. Rigid Waveguide & Standard Low Loss Microwave Coax Cable)

