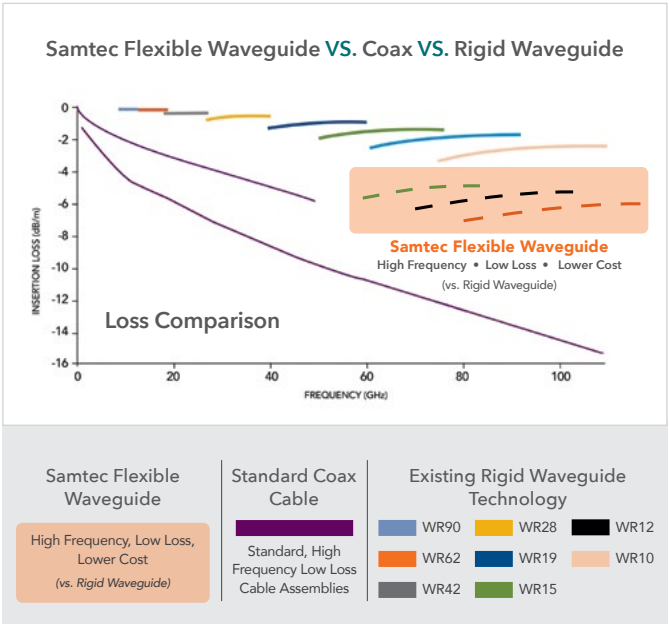
NEXT GENERATION FLEXIBLE WAVEGUIDE

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

Samtec's new, high frequency micro waveguide technology is designed to support the demands of next generation millimeter wave systems. It uses a cable design allowing flexibility and a reduced size, and supports frequencies up to 90 GHz (E-band), but with a loss performance greatly improved over coaxial cables.

Due to loss requirements, 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 the near-loss performance of a traditional rigid waveguide.

LOSS COMPARISON



E-BAND, FLEXIBLE WAVEGUIDE

- 60 GHz to 90 GHz, E-band
- Flexible cable with dynamic stability
- Low loss
- Ultra-small form factor

PRODUCT	SERIES	FREQUENCY BAND	DIMENSIONS
Waveguide	**WF12** = Cross section: 3.10 mm (.122") x 1.55 mm (.061") nom.	E (60 to 90 GHz)	**Overall Length:** 102 mm (4.00") Min. **Threaded Plug:** 5 mm (.196") x 8 mm (.314")
Adaptor	**WGBA** = UG-387 to Threaded Waveguide Jack		**Diameter:** 19.05 mm (.750") (mates with WR12 standard flange)

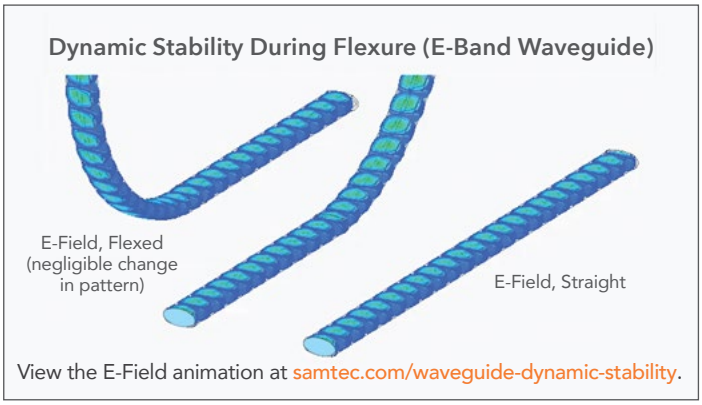
Also Available: V-Band (50 to 75 GHz)

WF15 Series Flexible Waveguide

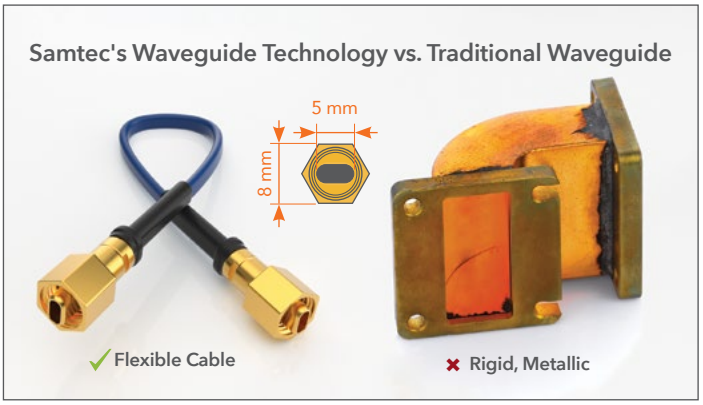
Cross Section: 3.76 mm (.148") x 1.88 mm (.074") nom.

UG-385 flange adaptor to Threaded Waveguide Jack

FLEXIBILITY & STABILITY



View the E-Field animation at samtec.com/waveguide-dynamic-stability.



View complete specifications at: **samtec.com?WF12 and samtec.com?WGBA**