



NITROWAVE™

HIGH-PERFORMANCE MICROWAVE CABLE ASSEMBLIES

Phase & Insertion Loss Stable

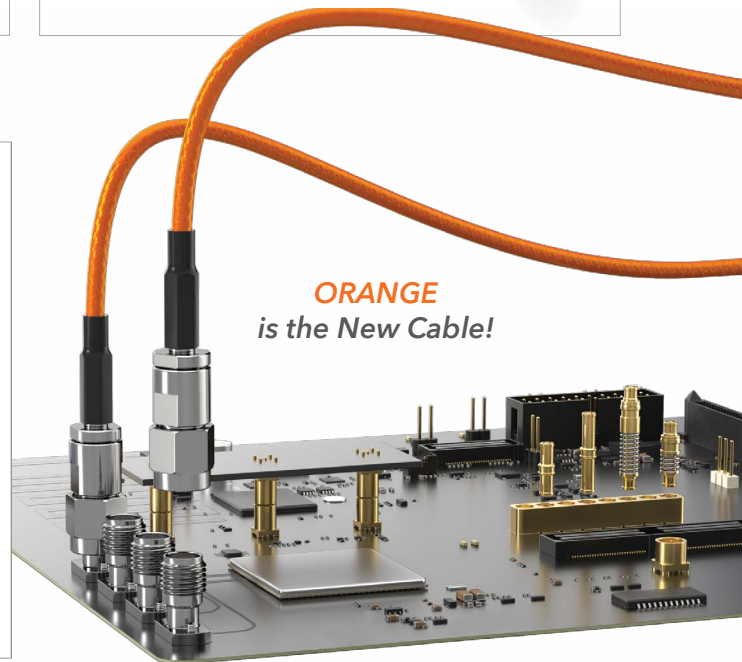
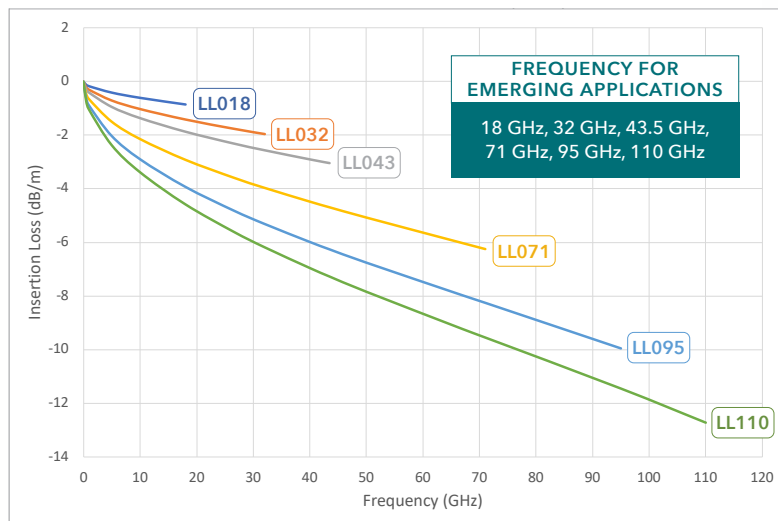
Samtec's next generation of RF coaxial cable offers improved stability with temperature and flexure over time. The coaxial structure – with an outer jacket colored in **distinctive Samtec orange** – is designed to meet increased demands placed on the aerospace, defense, datacom, computer/semiconductor and instrumentation markets. Performance is optimized at frequencies that go beyond traditional industry targets to support emerging applications.

LOW-LOSS CABLE CONSTRUCTION (vs. Typical PTFE Cables)

Series	LL018	LL032	LL043	LL071	LL095	LL110
Impedance (Ω)	50					
Max Frequency (GHz)	18	32	43.5	71	95	110
Outer Dia. (inches)	0.306	0.182	0.143	0.096	0.078	0.068
Min Static Bend Radius (inches)	1.25	0.375	0.25	0.25	0.125	0.125
Velocity of Propagation (%)	77					
Min Shielding Effectiveness (dB)	-90					
Temp Range (°C)	-65 °C to +125 °C					
Insertion Loss	See Chart Below					
Connector End Options	1.00 mm, 1.35 mm, 1.85 mm, 2.40 mm, 2.92 mm, SMPM, SMP, SMA, N Type, TNCA					



MAXIMUM INSERTION LOSS (dB/m)



Please visit samtec.com/rf-orange-cable for additional information about Nitrowave™ Cable Assemblies.