

MaxGain® 130

High Performance Microwave Cable Assemblies



MaxGain® Assemblies are high-performance, ultra-low-loss microwave coaxial cables. Built with our unique spiral outer conductor technology, this light-weight cable is a reliable, high frequency interconnect solution.

Features

- Optimized for lowest attenuation at 50 GHz
- Ultra stable insertion loss, phase and VSWR with flexing
- Flexible, low minimum bend radius
- Superior shielding effectiveness (>90 dB)

Specifications

 Impedance
50 Ohms

 Op Temp
-67 to +302°F
-55 to +150°C

Units

Diameter	in (mm)	0.131 (3.33)
Weight	lb/ft (kg/m)	0.018 (0.027)
Minimum Bend Radius	in (mm)	0.625 (15.9)
Maximum Frequency	GHz	53
Velocity of Propagation	%	80
Capacitance	pF/ft (pF/m)	25.4 (83.3)
Delay	ns/ft (ns/m)	1.27 (4.17)
Shielding	dB	>90

Attenuation

	dB/ft	dB/m
18.0 GHz	0.61	1.99
50.0 GHz	1.04	3.42

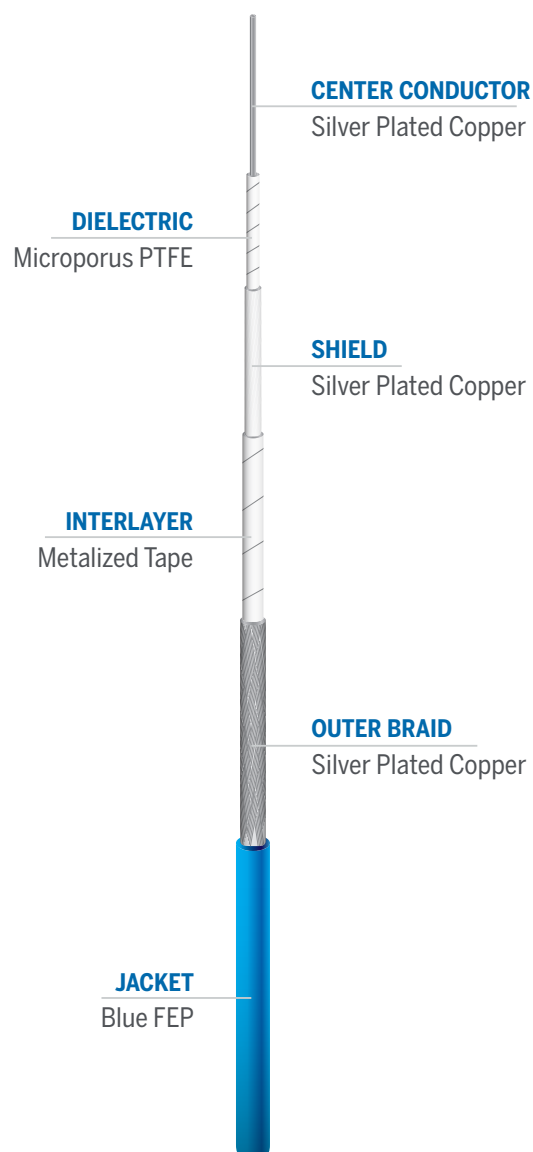
Calculation

$$IL = (K1 \times \sqrt{f} + K2 \times f) \times \frac{\text{Cable Length}}{\text{Length}} + \text{Connector 1 Loss} + \text{Connector 2 Loss}$$

Cable Insertion Loss
f = Frequency (MHz)

Use **K** values with
matching length unit

K values	dB/ft	dB/m
K1	0.0043000	0.0141074
K2	0.0000016	0.0000054



High Performance Microwave Cable Assemblies



Available for cable assembly only

- Connector A

Connector B -

Length

Units of measure
M - Meters
F - Feet

Connector Code	Description
KM	K Male
KF	K Female
SM	SMA Male
SF	SMA Female



Global manufacturing capability: US, and Asia.



Heritage—in the air and on the ground,
thousands of assemblies built over decades.



Assembled and tested assemblies
provide assured performance.

Rev.5: 09/2024

Times Microwave Systems
358 Hall Avenue, Wallingford, CT 06492, USA
T 800. 867.2629
www.timesmicrowave.com