

MaxGain® 160

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 40 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)	0.156 (3.96)
Weight	lb/ft (kg/m)	0.026 (0.038)
Minimum Bend Radius	in (mm)	0.75 (19.0)
Maximum Frequency	GHz	40
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	0.52	1.50
40.0 GHz	0.795	2.61

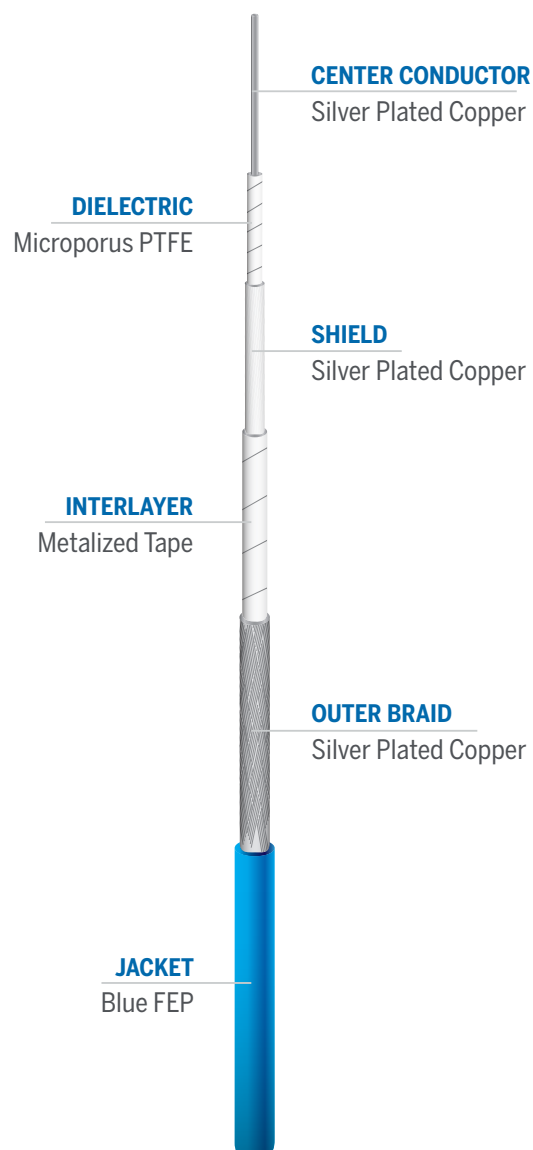
Calculation

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

Cable Insertion Loss
f = Frequency (MHz)

Use **K** values with
matching length unit

K values	dB/ft	dB/m
K1	0.0036800	0.0120733
K2	0.0000015	0.0000048



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Ordering Guide

Available for cable assembly only

MG160 **- CODE** **CODE -** **XX.X** **M**

- 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.

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