MaxGain® 300

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 18 GHz
- · Ultra stable insertion loss, phase and VSWR with flexing
- · Flexible, low minimum bend radius
- Superior shielding effectiveness (>90 dB)

Specifications





	Units	
Diameter	in (mm)	0.310 (7.88)
Weight	lb/ft (kg/m)	0.093 (0.140)
Minimum Bend Radius	in (mm)	1.75 (44.5)
Maximum Frequency	GHz	18
Velocity of Propagation	%	81
Capacitance	pF/ft (pF/m)	24.8 (81.2)
Delay	ns/ft (ns/m)	1.25 (4.10)
Shielding	dB	-90

Attenuation	dB/ft	dB/m
12.0 GHz	0.16	0.52
18.0 GHz	0.22	0.72

Calculation

IL = (K1 x V(f) + K2 x f) x Cable Length + Connector + Connector 2 Loss

Cable Insertion Loss

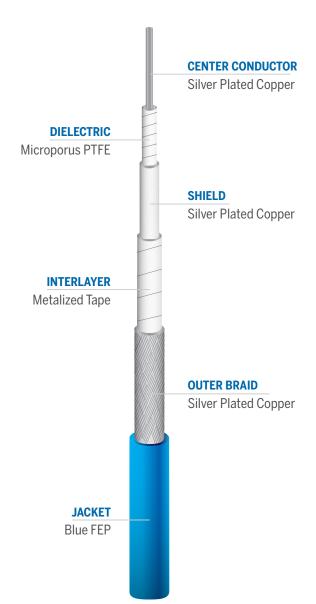
Use K values with

Cable Insertion Loss f = Frequency (MHz)

matching length unit

K values	dB/ft	dB/m
K1	0.0014393	0.0046174
K2	0.0000015	0.0000047





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Ordering Guide

Available for cable assembly only

MG300 - CODE CODE - XX.X M

Units of measure M - Meters F - Feet

Connector Code	Description
NM	N Male
NF	N Female
ТМ	TNC Male
TF	TNC Female
SM	SMAM
SF	SMAF



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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