

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

Ω Impedance
50 Ohms

Op Temp
-67 to +302°F
-55 to +150°C

Mechanical Properties

	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)

Electrical Properties

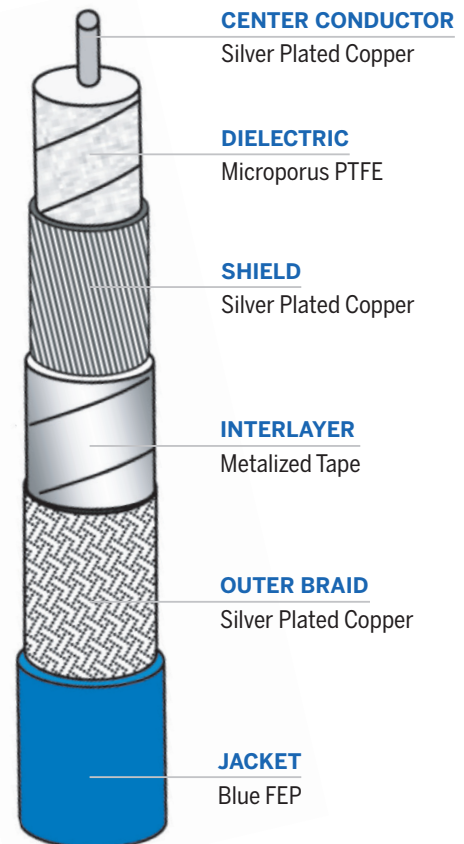
	Units	
Impedance	Ω	50+/-2
Maximum Frequency	GHz	18.0
Capacitance	pF/ft (pF/m)	24.8 (81.2)
Velocity of Propagation	%	81
Delay	ns/ft (ns/m)	1.25 (4.10)
Shielding	dB	-90

Attenuation

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

Key Applications

- 5G high frequency
- Space environment
- Test and measurement



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Ordering Guide

AVAILABLE FOR CABLE ASSEMBLY ONLY

MG300 - CODE CODE - 01.0 M
- Connector A Connector B - Length Units of measure
M - Meters
F - Feet

CODE	Description
NM	N Male
NF	N Female
TM	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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Times Microwave Systems
358 Hall Avenue, Wallingford, CT 06492, USA
T 800. 867.2629 F 203. 949.8423
www.timesmicrowave.com