

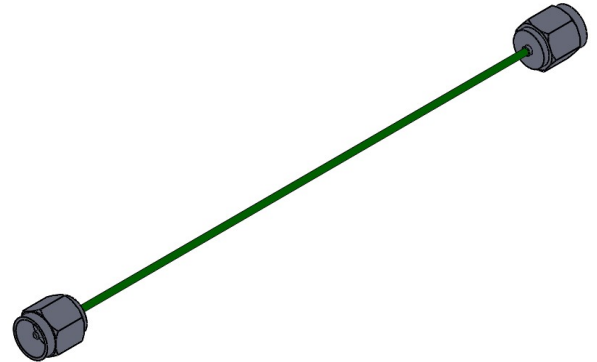


ULTRABEND EM-G047 Series

Flexible Low Profile Cable Assemblies, SMA 18GHz

Features

- VSWR 1.35:1 Max up to 18GHz
- SMA Connectors both ends
- 70% Phase Velocity
- Double Shielded
- Shielding Effectivity >90dB
- 0.047in FEP Outer Jacket, Green
- EM-G047 Series Ultrabend
- Eliminates requirements for 90° connections



ELECTRICAL SPECIFICATION (25° C, sea level)

Description	Min	Typ	Max	Units/Note
Impedance		50Ω		Ohm
Frequency	DC		18	GHz
VSWR, 18GHz			1.35:1	@18GHz
Velocity of Propagation		70		%
Dielectric Withstand		500		Volts
RF Shielding	90			dB
Capacitance		94		pF/m
Temperature	-55		125	° C
Phase change vs bending		±0.3		° /GHz
TEM Mode Cutoff Frequency			109	GHz, EM-G047 cable only

Performance by Frequency (Cable Only)

Frequency (MHz)	Max Insertion Loss(25° C) dB/ft	Average Power(25° C @ Sea Level) Watts
500	0.248	100
1000	0.352	70
3000	0.641	40
6000	0.875	28
10000	1.138	22
16000	1.453	17
18000	1.545	16
26000	1.873	13
40000	2.351	11
67000	3.100	8
100000	3.855	6

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MECHANICAL SPECIFICATION, CONNECTORS		
Description	Connector 1	Connector 2
Type	SMA Male Straight/Right Angle	SMA Female
Interface Spec	MIL-STD-348	MIL-STD-348
Mating Cycles	500	500
Hex Wrench Size	5/16 in	N/A
Mating Torque	8-10in-lbs/0.9-1.13nm	8-10in-lbs/0.9-1.13nm
Material	Stainless Steel	Stainless Steel
Pin/Receptacle	Gold Plated BeCu	Gold Plated BeCu
Dielectric Type	PTFE	PTFE

MECHANICAL SPECIFICATION, CABLE	
Description	Specification
Cable Type	EM-G047
Diameter	0.047in. (1.19mm)
Weight	0.005lb/ft(0.008kg/m)
Minimum Bend Radius, Static	0.10in. (2.54mm)
Minimum Bend Radius, Dynamic	0.24in. (6.0mm)
Length Tolerance	±0.196in(±5mm)

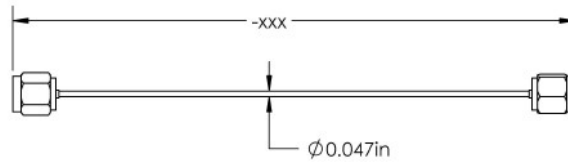
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Ordering Information



Connector Options:
SMA

Part Number Configurator			
Series, SMA	Connector 1	Connector 2	Length (in)
EM-G047SMA	XX	XX	-XXX

Connector 1		Connector 2	
SMA Male, Straight	MS	SMA Male, Straight	MS
SMA Female Bulkhead	FB	SMA Female Bulkhead	FB

*** - If Connector 1 = Connector, 2 omit Connector 2

Example:

EM-G047SMAMS-024, 24 inch cable with straight SMA male both ends.

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