

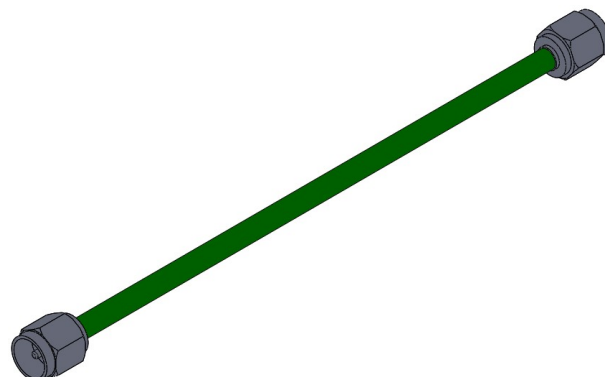


ULTRABEND EM-G141 Series

Flexible Low Profile Cable Assemblies, SMA 18GHz

Features

- VSWR 1.35:1 Max up to 18GHz
- SMA Connectors both ends
- 76% Phase Velocity
- Double Shielded
- Shielding Effectivity >90dB
- 0.141in FEP Outer Jacket, Green
- EM-G141 Series Ultrabend
- Eliminates 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		76		%
Dielectric Withstand		1200		Volts
RF Shielding	90			dB
Capacitance		88		pF/m
Temperature	-55		125	° C
Phase change vs bending		±0.3		° /GHz
TEM Mode Cutoff Frequency			34	GHz, EM-G141 cable only

Performance by Frequency (Cable Only)

Frequency (MHz)	Max Insertion Loss(25° C) dB/ft	Average Power(25° C @ Sea Level) Watts
500	0.094	660
1000	0.136	456
2000	0.198	313
4000	0.292	212
6000	0.369	168
8000	0.437	142
10000	0.500	124
12400	0.569	109
16000	0.665	93
18000	0.717	87
26500	0.917	68

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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-G141
Diameter	0.141in. (3.58mm)
Weight	0.028lb/ft(0.041kg/m)
Minimum Bend Radius, Static	0.315in. (8.0mm)
Minimum Bend Radius, Dynamic	1.575in. (40.0mm)
Length Tolerance	±0.196in(±5mm)

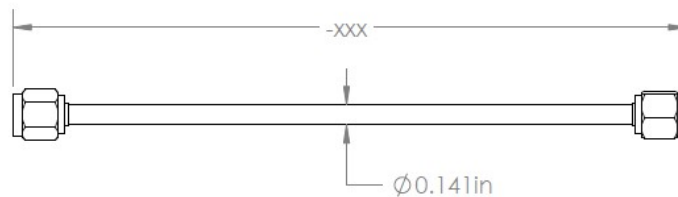
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Ordering Information



Connector Options:
SMA

Part Number Configurator			
Series, SMA	Connector 1	Connector 2	Length (in)
EM-G141SMA	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-G141SMAMS-024, 24 inch cable with straight SMA male both ends.

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