

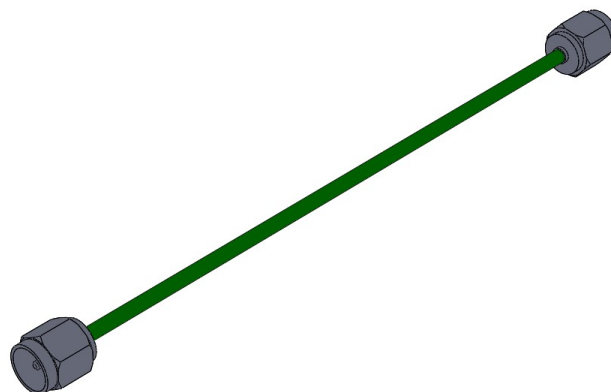


ULTRABEND EM-G086 Series

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
- 0.086in FEP Outer Jacket, Green
- EM-G086 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		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			61	GHz, EM-G086 cable only

Performance by Frequency (Cable Only)		
Frequency (MHz)	Max Insertion Loss(25° C) dB/ft	Average Power(25° C @ Sea Level) Watts
500	0.159	258
1000	0.228	180
3000	0.410	100
6000	0.602	68
10000	0.804	51
12000	0.893	46
16000	1.056	39
18000	1.133	36
26000	1.414	29
30000	1.544	27
40000	1.847	22

Contact us:
sales@echelon-mw.com
www.echelon-mw.com
 770.742.8847

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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-G086
Diameter	0.086in. (2.18mm)
Weight	0.013lb/ft(0.019kg/m)
Minimum Bend Radius, Static	0.24in. (6.0mm)
Minimum Bend Radius, Dynamic	0.79in. (20.0mm)
Length Tolerance	±0.196in(±5mm)

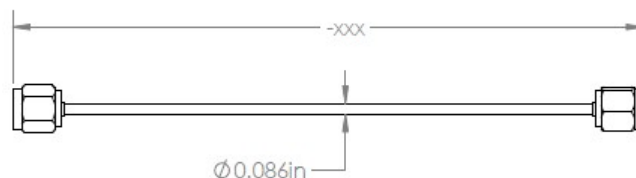
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Ordering Information



Connector Options:
SMA

Part Number Configurator			
Series, SMA	Connector 1	Connector 2	Length (in)
EM-G086SMA	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-G086SMAMS-024, 24 inch cable with straight SMA male both ends.

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