

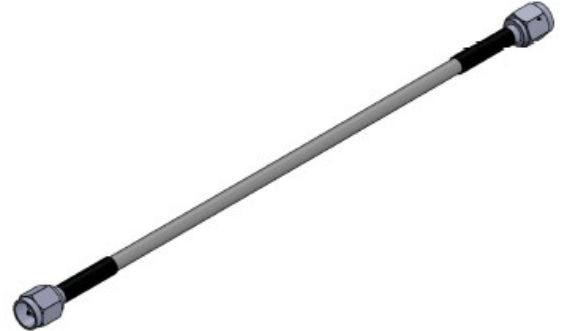


## ECHELON MAX EM-B360 Series

### Ultra Low Loss Phase Stable Cable Assemblies, 40GHz

#### Features

- EM-B360 Series Ultra Low Loss
- Phase and Amplitude Stable
- VSWR 1.35:1 Max up to 40GHz
- 2.92mm or 2.40mm Connectors
- 83% Phase Velocity
- Double Shielded
- Shielding Effectivity 90dB
- 3.6mm/0.142in FEP Outer Jacket, Gray



#### ELECTRICAL SPECIFICATION (25° C, sea level)

Description	Min	Typ	Max	Units/Note
Impedance		50Ω		Ohm
Frequency	DC		40	GHz
VSWR, 40GHz			1.35:1	2.92mm
VSWR, 26.5GHz			1.30:1	2.92mm
VSWR, 18GHz			1.25:1	2.92mm
Velocity of Propagation		83		%
RF Shielding	90			dB
Dielectric Withstand Voltage		1000		Volts
Capacitance		80		pF/m
Temperature	-55		165	° C
Phase change vs bending			±0.3	° /GHz
Phase change vs temperature			750	PPM, (-45 - 85 ° C)

#### Performance by Frequency (Cable Only)

Frequency (MHz)	Max Insertion Loss (25° C) dB/ft	Average Power (25° C @ Sea Level) Watts
1000	0.11	510
2000	0.16	370
4000	0.23	250
8000	0.33	176
10000	0.37	156
15000	0.46	125
18000	0.51	115
26500	0.62	93
32000	0.69	84
40000	0.78	75

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MECHANICAL SPECIFICATION, CONNECTORS		
Description	Connector 1	Connector 2
Type	2.92mm/2.40mm Male Straight/Right Angle	2.92mm/2.40mm 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-B360
Diameter	0.142in. (3.6mm)
Weight	0.221lb/ft(0.033kg/m)
Minimum Bend Radius, Static	0.71in. (18mm)
Minimum Bend Radius, Dynamic	1.42in. (36.0mm)
Length Tolerance	±0.196in(±5mm)

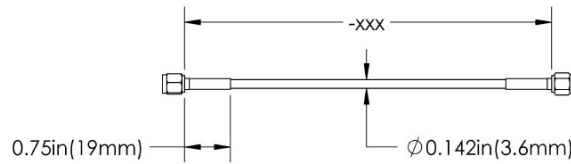
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#### Ordering Information



Connector Options:  
 2.92mm  
 2.40mm

Part Number Configurator			
Series	Connector 1	Connector 2	Length (in)
EM-B360	XXXX	XXXX	-XXX

Connector 1		Connector 2	
2.92mm Male, Straight	29MS	2.92mm Male, Straight	29MS
2.92mm Male, Right Angle	29MR	2.92mm Male, Right Angle	29MR
2.92mm Female Bulkhead	29FB	2.92mm Female Bulkhead	29FB
2.40mm Male, Straight	24MS	2.40mm Male, Straight	24MS
2.40mm Male, Right Angle	24MR	2.40mm Male, Right Angle	24MR

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

#### Example:

EM-B36024MS29MR-012, 12 inch cable with straight 2.40mm male to right angle 2.92mm male.

EM-B36029MS-024, 24 inch cable with straight 2.92mm male connectors both ends.

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