



## EXACTEST STANDARD Precision Microwave Test Cables, 67GHz

### Features

- VSWR 1.30:1 Max at 67GHz
- 76% Phase Velocity
- Triple Shielded
- Shielding Effectivity >90dB
- FEP Outer Jacket
- ET67S Series
- Connector 1.85mm



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

Description	Min	Typ	Max	Units/Note
Impedance		50Ω		Ohm
Frequency	DC		67	GHz
VSWR, 18GHz			1.20:1	@18GHz
VSWR, 40GHz			1.25:1	@40GHz
VSWR, 50GHz			1.30:1	@50GHz
VSWR, 67GHz			1.30:1	@67GHz
Velocity of Propagation		76		%
RF Shielding	90			dB
Temperature	-55		125	° C
Amplitude Stability			±0.15	dB @ 67GHz
Bending Phase Stability			±6.7	° @ 67GHz

### Performance by Frequency

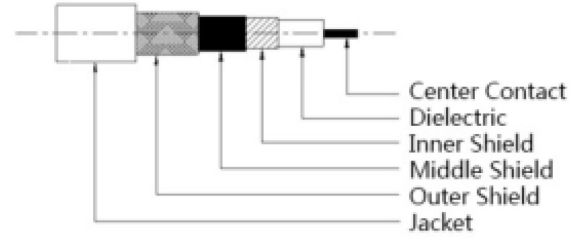
Frequency (MHz)	Max Insertion Loss(25° C) dB/100ft	Average Power(40° C @ Sea Level) Watts
1000	21.36	169
3000	37.47	96
6000	53.64	67
10000	70.09	52
12000	77.17	47
18000	95.74	38
26500	117.90	31
40000	147.62	24
50000	167.01	22
67000	196.72	18

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## EXACTEST STANDARD Precision Microwave Test Cables, 67GHz

Construction	
Item	Material
1	Center conductor, silver plated copper wire
2	Dielectric, LDPTFE
3	Internal shield, silver plated flat copper wire braid
4	Middle Shield, silver plated copper wire braid
5	Outer Shield, silver plated copper wire braid
6	Jacket, FEP



MECHANICAL SPECIFICATION, CONNECTORS		
Description	Connector 1	Connector 2
Type	1.85mm	1.85mm
1.85mm Interface Spec	IEC-6119-31	IEC-6119-31
Mating Cycles	5000	5000
Hex Wrench Size	5/16 in	5/16 in
Mating Torque	9.0in-lbs/1.02nm	9.0in-lbs/1.02nm
Material	Stainless Steel	Stainless Steel
Pin	Gold Plated BeCu	Gold Plated BeCu
Dielectric Type	PTFE	PTFE

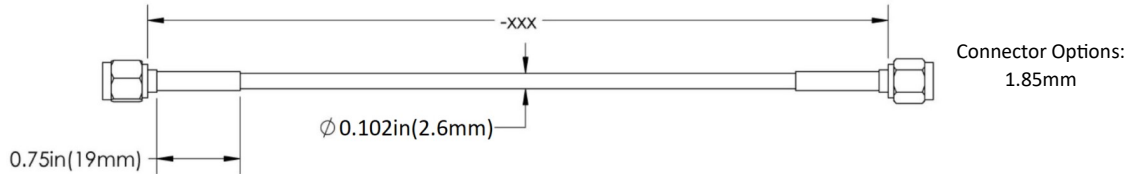
MECHANICAL SPECIFICATION, CABLE	
Description	Specification
Cable Type	ET67S
Diameter	0.102in. (2.6mm)
Weight	0.017kg/m
Minimum Bend Radius, Static	0.512in. (13mm)
Minimum Bend Radius, Dynamic	1.024in. (26mm)
Length	Customer Specified

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## EXACTEST STANDARD Precision Microwave Test Cables, 67GHz

### Ordering Information



Part Number Configurator			
Series	Connector 1	Connector 2	Length (in)
EM-ET67S	XXXX	XXXX	-XXX

Connector 1		Connector 2	
1.85mm Male	185M	1.85mm Male	185M
1.85mm Female	185F	1.85mm Female	185F

\*\* - If Connector 1 equals Connector 2, leave Connector 2 blank

### Example:

EM-ET67S185M-048, 48 inch cable with 1.85mm male connectors both ends.

EM-ET67S185M185F-024, 24 inch cable with 1.85mm male and 1.85mm Female connectors.

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