



## EXACTEST HARDENED Precision Microwave Test Cables, 67GHz

### Features

- ET67H Series
- VSWR 1.35:1 Max up to 67GHz
- 76% Phase Velocity
- Triple Shielded with Spring Armor
- Shielding Effectivity >90dB
- Braided PTFE Fiber, Purple and Black
- 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, 1.85mm Connectors
VSWR, 40GHz			1.25:1	@40GHz, 1.85mm Connectors
VSWR, 50GHz			1.30:1	@50GHz, 1.85mm Connectors
VSWR, 67GHz			1.35:1	@67GHz, 1.85mm Connectors
Velocity of Propagation		76		%
Dielectric Withstand		500		Volts
RF Shielding	90			dB
Capacitance		88		pF/m
Temperature	-55		125	° C
Amplitude Stability			±0.15	dB @ 67GHz
Bending Phase Stability			±6.7	° @ 67GHz

### Performance by Frequency (Cable Only)

Frequency (MHz)	Max Insertion Loss(25° C) dB/100ft	Average Power(25° C @ Sea Level) Watts
1000	21.36	169
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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 770.742.8847



## EXACTEST HARDENED Precision Microwave Test Cables, 67GHz



Construction			
Item	Material	Item	Material
1	Center conductor, silver plated copper wire	6	Sheath, FEP
2	Dielectric, LDPTFE	7	Internal Spring Armor
3	Internal shield, silver plated copper ribbon	8	Reinforced Braid, Tinned Copper Wire
4	Middle layer, LDPTFE	9	Anti-torsion protective layer, PTFE winding
5	Outer shield, woven silver plated copper thread	10	Outer jacket, Braided PTFE Fiber, Purple and Black

MECHANICAL SPECIFICATION, CONNECTORS		
Description	Connector 1	Connector 2
Type	1.85mm	1.85mm
Interface Spec	MIL-STD-348	MIL-STD-348
Mating Cycles	5000	5000
Hex Wrench Size	5/16 in	5/16 in
Mating Torque	8in-lbs/0.92nm	8in-lbs/0.92nm
Material	Stainless Steel	Stainless Steel
Pin	Gold Plated BeCu	Gold Plated BeCu
Dielectric Type	PTFE	PTFE

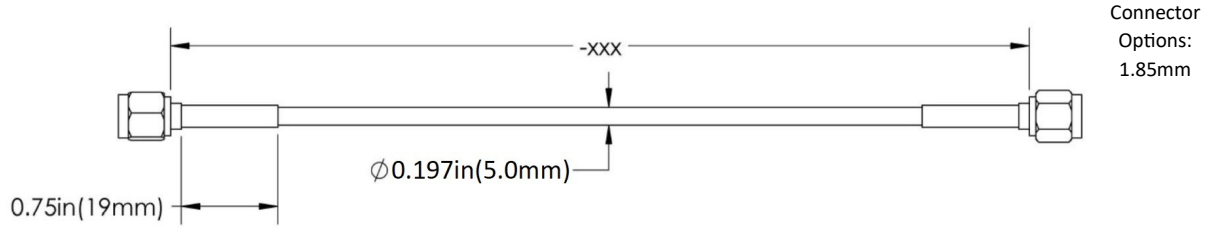
MECHANICAL SPECIFICATION, CABLE	
Description	Specification
Cable Type	ET67H
Diameter	0.197in. (5.0mm)
Weight	0.80kg/m
Armor Crush Resistance	180N/25mm
Minimum Bend Radius, Static	0.984in. (25mm)
Minimum Bend Radius, Dynamic	1.967in. (50mm)
Length	Customer Specified

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### Ordering Information



Part Number Configurator			
Series	Connector 1	Connector 2	Length (in)
EM-ET67H	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-ET67H185M-048, 48 inch cable with 1.85mm male connectors both ends.

EM-ET67H185M185F-024, 24 inch cable with 1.85mm male and 1.85mm Female connectors.

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