



EXACTEST STANDARD Precision Microwave Test Cables, 110GHz

Features

- VSWR 1.50:1 Max at 110GHz
- 76% Phase Velocity
- Triple Shielded
- Shielding Effectivity >90dB
- FEP Outer Jacket
- ET110S Series
- Connector 1.0mm



ELECTRICAL SPECIFICATION (25° C, sea level)

Description	Min	Typ	Max	Units/Note
Impedance		50Ω		Ohm
Frequency	DC		110	GHz
VSWR, 40GHz			1.25:1	@40GHz
VSWR, 50GHz			1.30:1	@50GHz
VSWR, 67GHz			1.35:1	@67GHz
VSWR, 110GHz			1.50:1	@110GHz
Velocity of Propagation		76		%
RF Shielding	90			dB
Temperature	-55		125	° C
Amplitude Stability			±0.25	dB @ 110GHz
Bending Phase Stability			±9.0	° @ 110GHz

Performance by Frequency

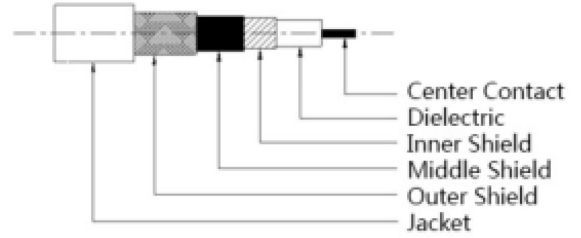
Frequency (MHz)	Max Insertion Loss(25° C) dB/100ft	Average Power(40° C @ Sea Level) Watts
1000	18.89	82
3000	60.51	47
6000	86.23	33
10000	112.16	25
12000	123.16	22
18000	152.19	19
26500	186.39	15
40000	231.77	12
50000	261.09	11
67000	305.63	9
110000	400.60	7

Contact us:
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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	1.0mm	1.0mm
1.0mm Interface Spec	IEC-6119-31	IEC-6119-31
Mating Cycles	5000	5000
Hex Wrench Size	15/64 in	15/64 in
Mating Torque	4.0in-lbs/0.45nm	4.0in-lbs/0.45nm
Material	Stainless Steel	Stainless Steel
Pin	Gold Plated BeCu	Gold Plated BeCu
Dielectric Type	PTFE	PTFE

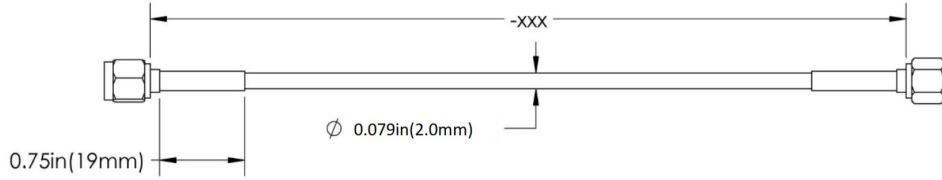
MECHANICAL SPECIFICATION, CABLE	
Description	Specification
Cable Type	ET110S
Diameter	0.079in. (2.0mm)
Weight	0.007kg/m
Minimum Bend Radius, Static	0.394in. (10mm)
Minimum Bend Radius, Dynamic	0.787in. (20mm)
Length	Customer Specified

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Ordering Information



Connector Options:
1.0mm

Part Number Configurator			
Series	Connector 1	Connector 2	Length (in)
EM-ET110S	XXXX	XXXX	-XXX

Connector 1		Connector 2	
1.0mm Male	100M	1.0mm Male	100M
1.0mm Female	100F	1.0mm Female	100F

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

Example:

EM-ET110S100M-048, 48 inch cable with 1.0mm male connectors both ends.

EM-ET110S100M100F-024, 24 inch cable with 1.0mm male and 1.0mm Female connectors.

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