

EXACTEST K-SERIES

Precision Microwave Test Cables, 26.5GHz

FEATURES

- ET26K Series, Integrated Armor
- VSWR 1.25:1 Max up to 26.5GHz
- 76% Phase Velocity
- Double Shielded with Spring Armor
- Shielding Effectivity >100dB
- Braided PTFE Fiber, Purple and Black
- Connector options 3.5mm / SMA



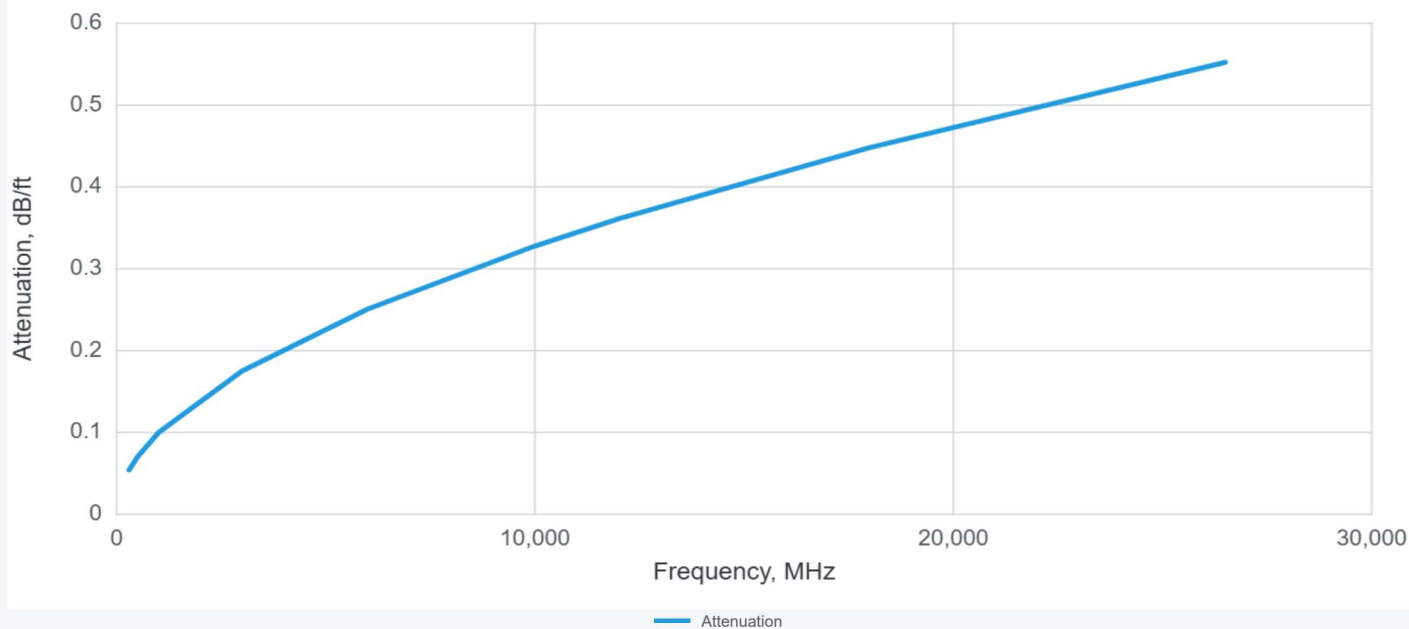
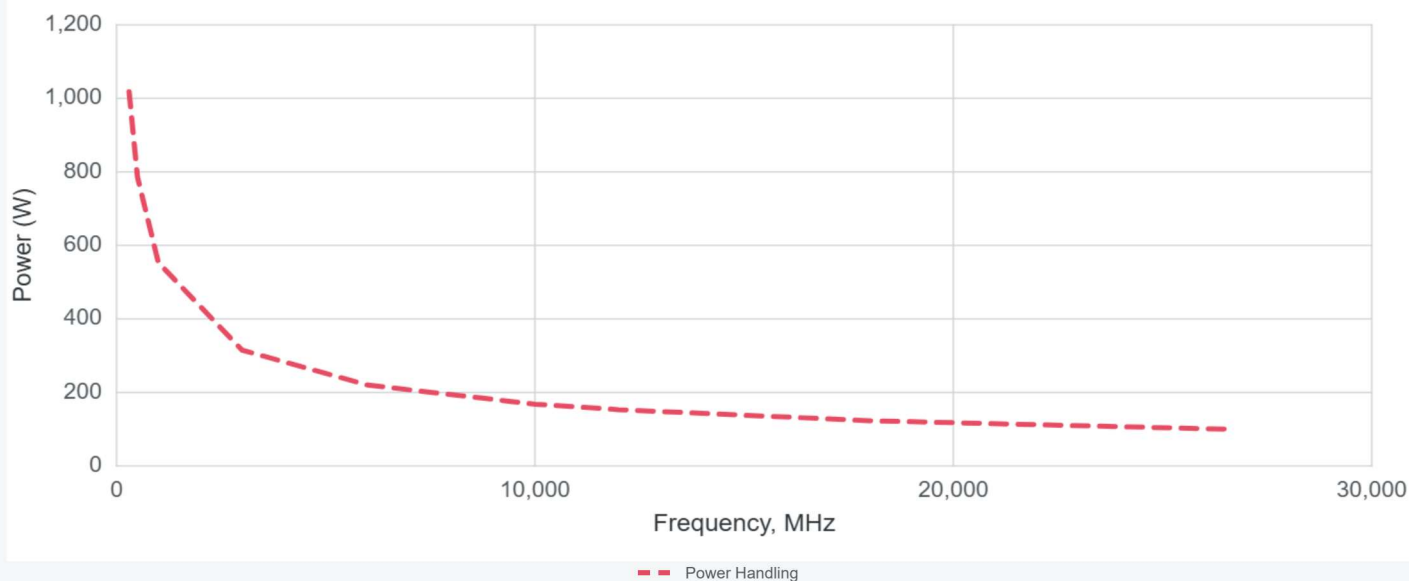
EM-ET26K cable construction shown for reference

ELECTRICAL SPECIFICATION (25° C, SEA LEVEL)

Description	Min	Typ	Max	Units / Note
Impedance		50Ω		Ohm
Frequency	DC		26.5	GHz
VSWR, 26.5GHz			1.25:1	3.5mm connectors
Velocity of Propagation		76		%
RF Shielding	100			dB
Dielectric Withstand Voltage		1500		Volts
Capacitance		88		pF/m
Temperature	-55		125	° C
Amplitude Stability			±0.03	dB @ 26.5GHz
Bending Phase Stability			±0.2	°/GHz
Phase Change over Temperature			1500	PPM, -45 - 85° C

CABLE STRUCTURE

Description	Material	Units / Note
Inner Conductor	Silver Plated Copper	
Dielectric	PTFE	
Inner Shield	Flat Silver Plated Copper Strip	
Intermediate layer	LD-PTFE	
Outer Shielding Layer	Silver Plated Copper Wire Braid	
Inner Jacket	FEP	
Inner Armor	Steel Spring	
Reinforcing Braid	Tinned Copper Wire	
Anti-torsion Protection Layer	PTFE	
Outer Jacket	PTFE Fiber Yarn	7.6mm (0.299in)

EXACTEST K-SERIES
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01
RF PERFORMANCE
Attenuation and Power Handling

02
ENVIRONMENTAL PERFORMANCE
Power vs Frequency


Typical performance shown. Values are generated from the editable chart data and are not guaranteed specifications unless stated.

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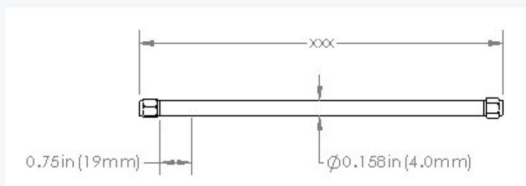
MECHANICAL SPECIFICATION, CONNECTORS

Description	Connector 1	Connector 2
Type	3.5mm or SMA, Male/Male Right Angle	3.5mm or SMA, Female/Female Bulkhead
Interface Spec	MIL-STD-348	MIL-STD-348
Mating Cycles	5000	5000
Hex Wrench Size	5/16 in	N/A
Mating Torque	8-10 in-lbs / 0.9-1.13 Nm	N/A
Material	Passivated Stainless Steel	Passivated Stainless Steel
Pin / Receptacle	Gold Plated BeCu	Gold Plated BeCu
Dielectric Type	PTFE	PTFE
Armor Compression Strength	180N/25mm (41.1 ft-lb/in)	180N/25mm (41.1 ft-lb/in)

MECHANICAL SPECIFICATION, CABLE

Description	Specification
Cable Type	EM-ET26K
Diameter	7.6mm (0.299in)
Weight	0.120kg/m (0.081lb/ft)
Minimum Bend Radius, Static	38.0mm (1.50in)
Minimum Bend Radius, Dynamic	76.0mm (3.0in)
Length Tolerance	±5mm (±0.196in)

Ordering Information



Connector Options:
3.5mm
SMA

Part Number Configurator

Series	Connector 1	Connector 2	Length (in)
EM-ET26K	XXXX	XXXX	-XXX

Connector 1		Connector 2	
SMA Male Straight	SMAMS	SMA Male Straight	SMAMS
SMA Male, Right Angle	SMAMR	SMA Male, Right Angle	SMAMR
SMA Female Straight	SMAFS	SMA Female Straight	SMAFS
SMA Female Bulkhead	SMAFB	SMA Female Bulkhead	SMAFB
3.5mm Male Straight	350MR	3.5mm Male Straight	350MR
3.5mm Male Right Angle	350MR	3.5mm Male Right Angle	350MR
3.5mm Female Straight	350FS	3.5mm Female Straight	350FS

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

Example: EM-ET26K350MS350FS-048, 48 inch cable with straight 3.5mm male straight and 3.5mm female straight connectors