

## TESC Series Cables



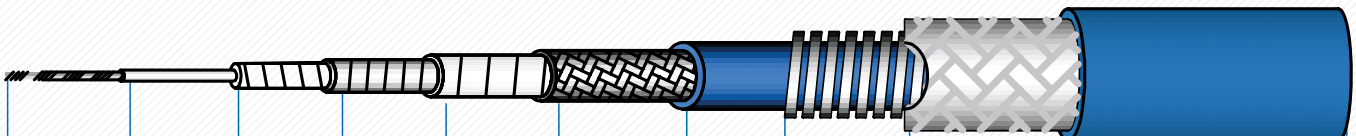
### FEATURES

- Highly Flexible
- Low Insertion Loss

### TYPICAL APPLICATIONS

- RF Module
- Anechoic Test Chambers
- Automated Test Equipment
- Wireless Telecommunication Module Testing

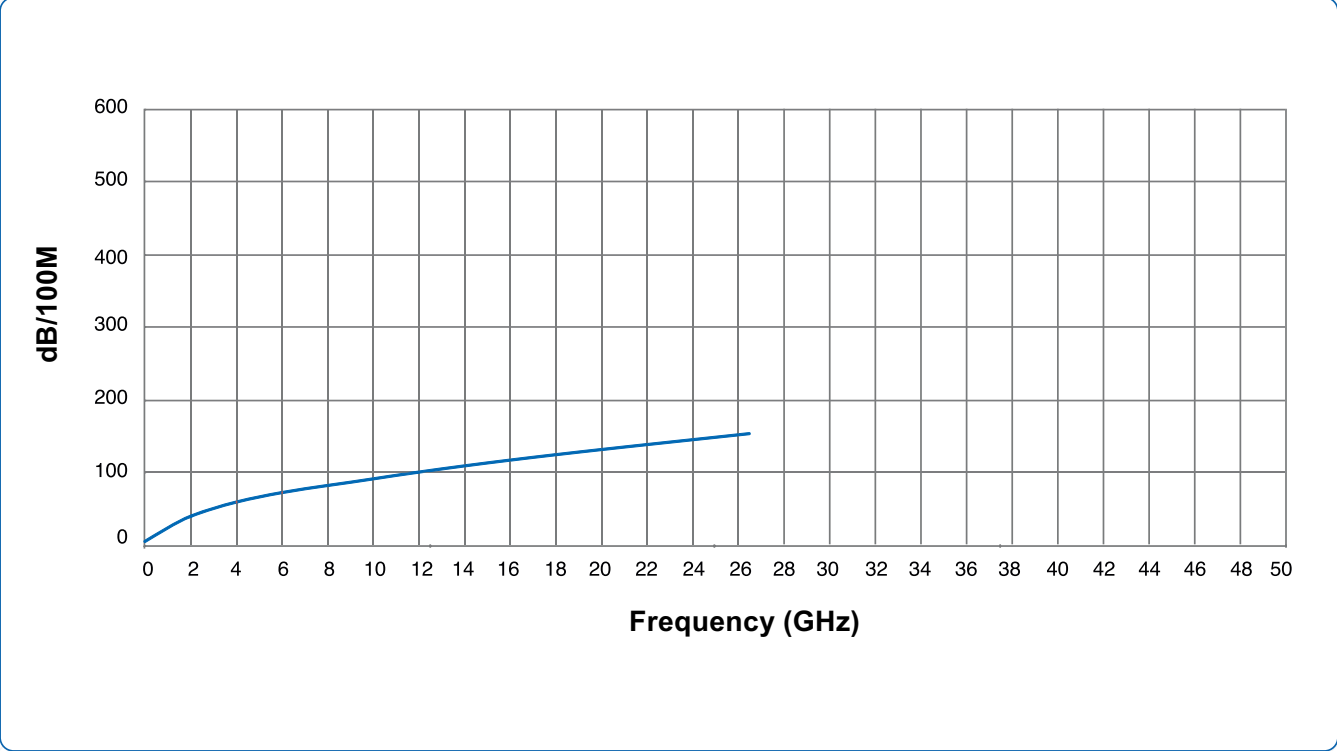
### CABLE STRUCTURE



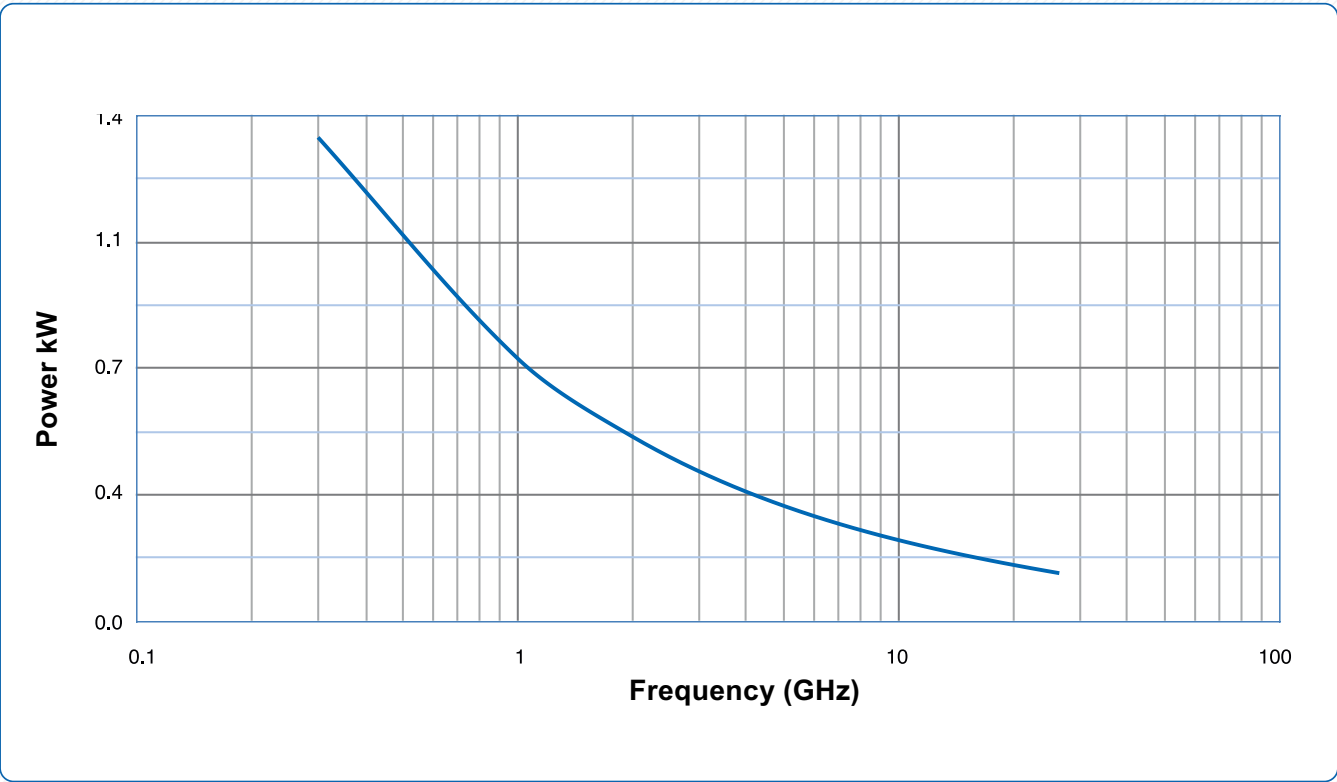
Center Conductor	Insulation	Dielectric	Outer Conductor	Inner Layer	Shielding	Jacket	Armored Spring	Strengthening Net	Jacket
Strand Silver Plated Copper	FEP	PTFE	Silver Plated Copper Foil	PTFE	Silver Plated Copper	Blue PVC	Stainless steel strips	Silver Plated Copper	Blue PVC



## ATTENUATION



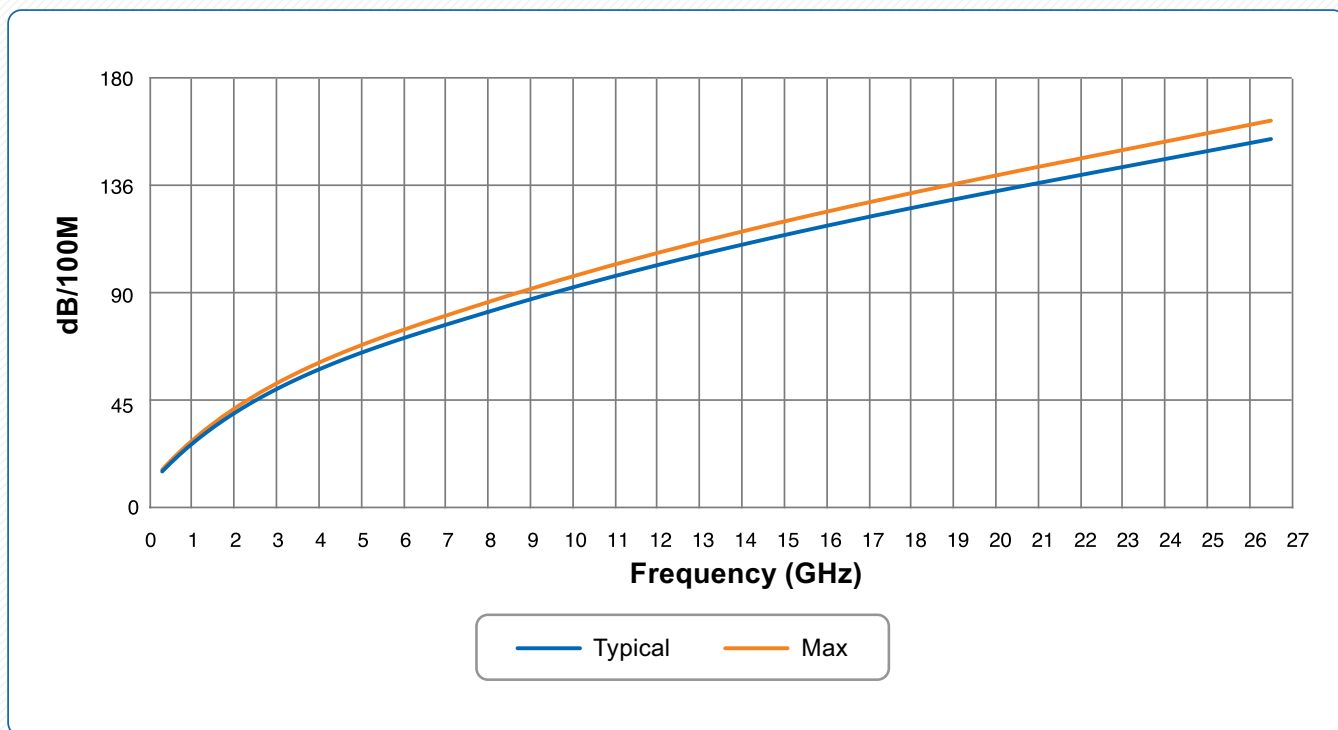
## AVERAGE POWER



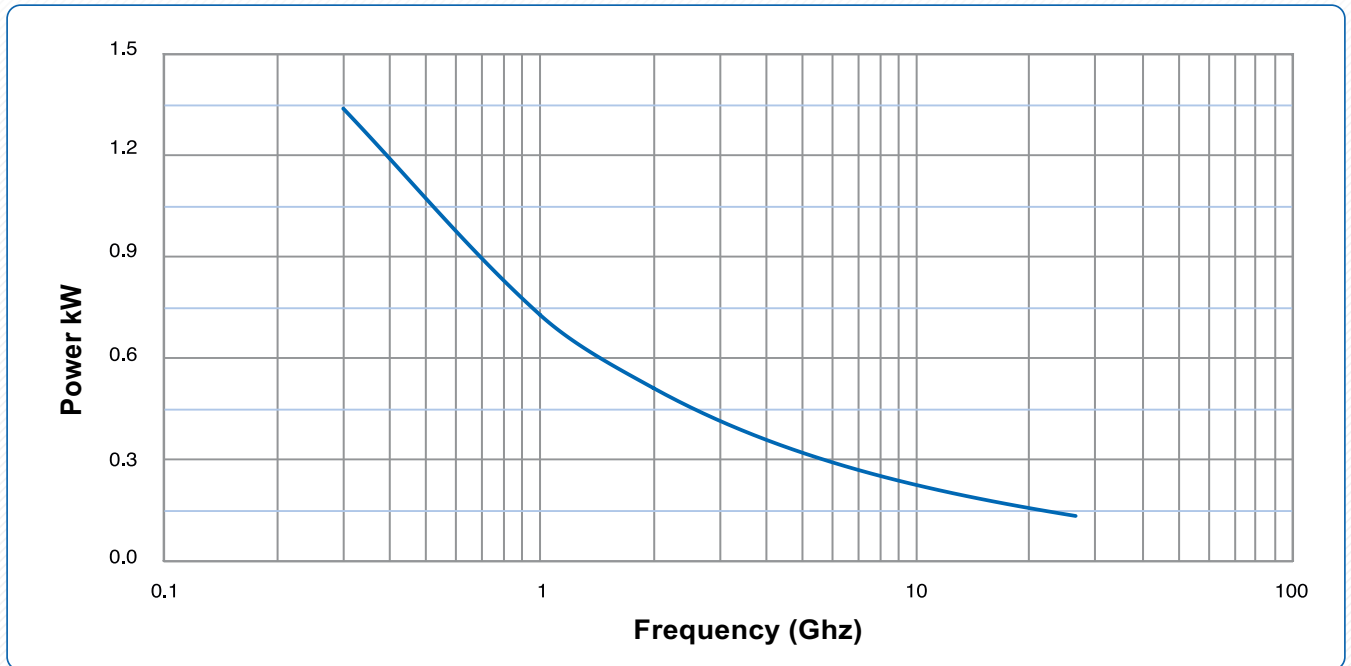
## SPECIFICATIONS

CABLE	TESC
Center Conductor	Stranded
Overall Diameter (mm)	9.0
Nominal Weight (g/m)	177
Minimum Bend Radius (mm)	40
Max Flex Cycles	200,000
Temperature Range (°C)	-40/85
Maximum Frequency (GHz)	26.5
Typical VSWR	1.22:1
Maximum VSWR	1.30:1
Max. Insertion Loss (dB/m)	1.6
Impedance (Nominal) (Ohms)	50
Phase Stability vs. Flex	±6.0
Amplitude Stability vs Bending (dB)	< ±0.1
Amplitude Stability vs. Shaking (dB)	< ±0.1
Dielectric Contant (Nominal)	1.45
Velocity of Propagation (Nominal) (%)	83
Time Delay (Nominal)	0.0401

## ATTENUATION



## AVERAGE POWER



Attenuation (Typical @25°C & VSWR = 1.0) & Power (VSWR = 1.0; 40°C; Sea Level)

Frequency (MHz)	TESC	
	Attenuation (dB/100m)	Average Power (kW)
300	15.39	1.340
1000	28.28	0.729
3000	49.50	0.416
4000	57.39	0.359
6000	70.74	0.291
8000	82.13	0.251
10000	92.26	0.223
12000	101.50	0.203
14000	110.06	0.187
18000	125.68	0.164
24000	146.46	0.141
26500	154.43	0.134
29000		
32000		
40000		
50000		

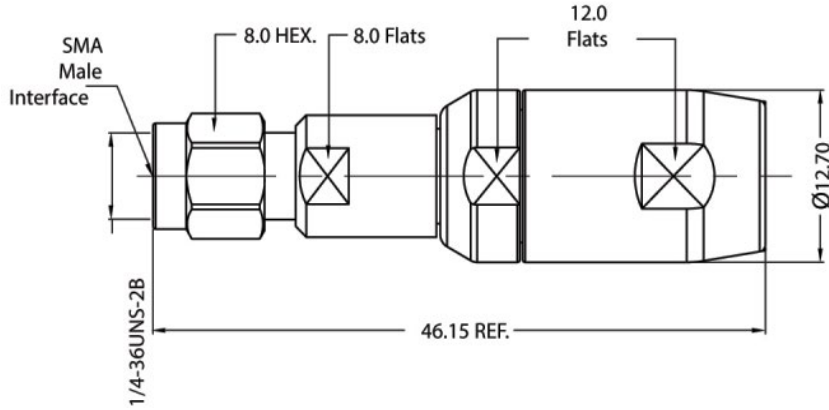
Calculate Attenuation =  $K1 \cdot \sqrt{FMHz} + K2 \cdot FMHz$

	TESC
K1	0.8811000
K2	0.0004150

AVAILABLE STANDARD CONNECTORS

TESC-SMSM

Type	SMA Male	Code	SMSM
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TESC-NN

Type	N Male	Code	NN
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