

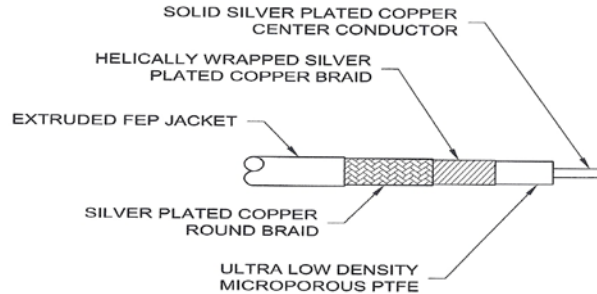


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E311 CABLE

COAXIAL CABLE CROSS SECTION



Max. Frequency (GHz)	18
Vel. Of Propagation %	84
RF Leakage at 18 GHz` (dB)	>-100
Max. Voltage (kV)	15
Capacitance (pF/ft.)	24
Cable OD (Inches)	0.311
Bend Radius (Inches)	1.5
Weight (Lb/100 ft.)	9
Center Conductor type	Solid
k1:	4.04
k2:	0.155

Cable Attenuation (dB/100ft.)= $k_1 \sqrt{f} + k_2 f$

Cable Assembly Loss (dB)= $(k_1 \sqrt{f} + k_2 f) / 1200 \times l$ + Connector 1 Loss + Connector 2 Loss

Connector Loss:

Connector Type	Straight	Right Angle
SMA	$.005 \sqrt{f} + .01 f$	$.014 \sqrt{f} + .013 f$
N	$.004 \sqrt{f} + .01 f$	$.013 \sqrt{f} + .013 f$
TNC	$.004 \sqrt{f} + .01 f$	$.013 \sqrt{f} + .013 f$

f is frequency in GHZ

VSWR Specifications:

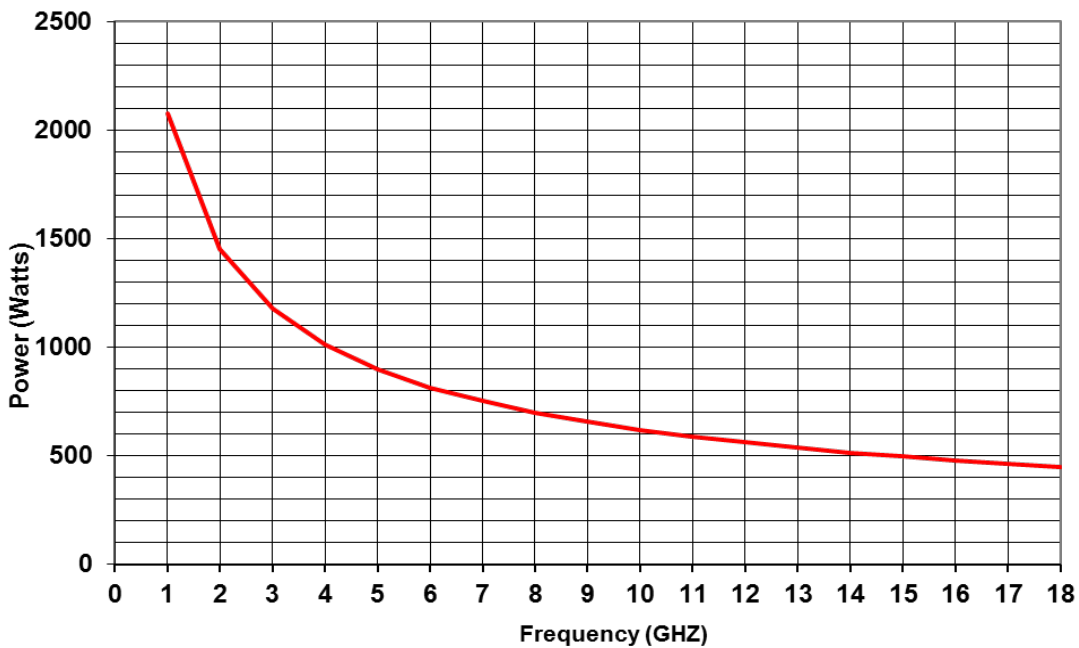
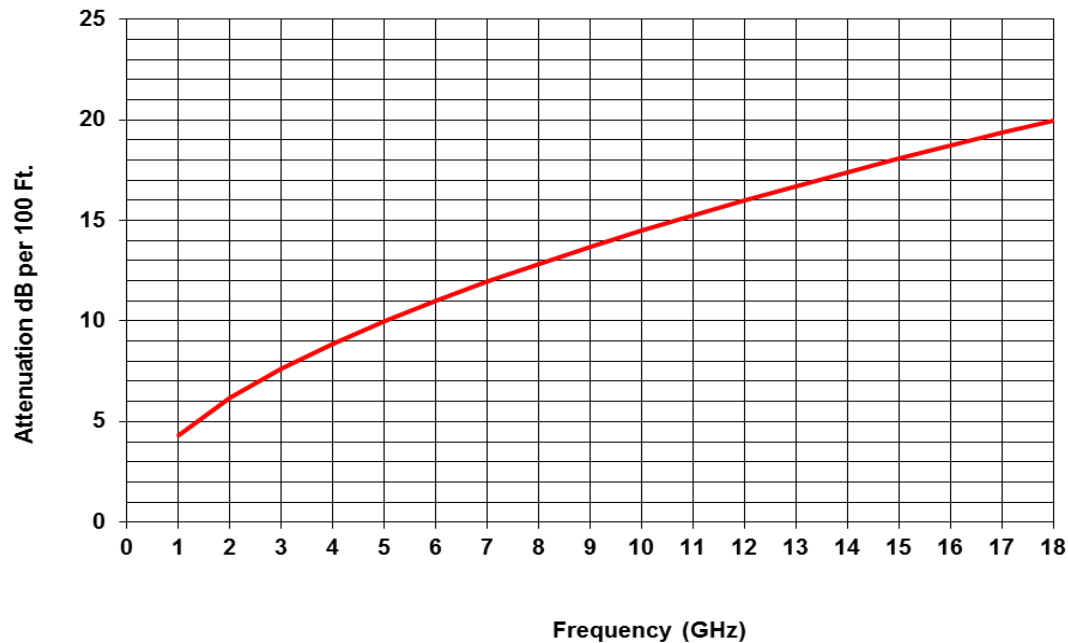
- 1.35:1 for assemblies with 2 straight connectors.
- 1.40:1 for assemblies with 1 straight and 1 right angle connector.
- 1.45:1 for assemblies with 2 right angle connectors.



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Max. Avg Power at sea level and 20 deg C. VSWR 1:1