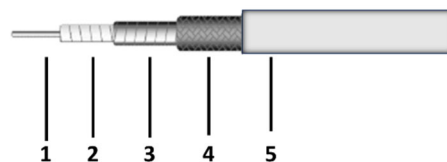


VT-290

Ultra Low Loss Phase Stable Coaxial Cable



Features & Benefits

- 85% Velocity of Propagation
- PTFE Tape + SPC Foil
- Ultra Low Loss, Excellent Temperature Phase Stability

Construction Specification

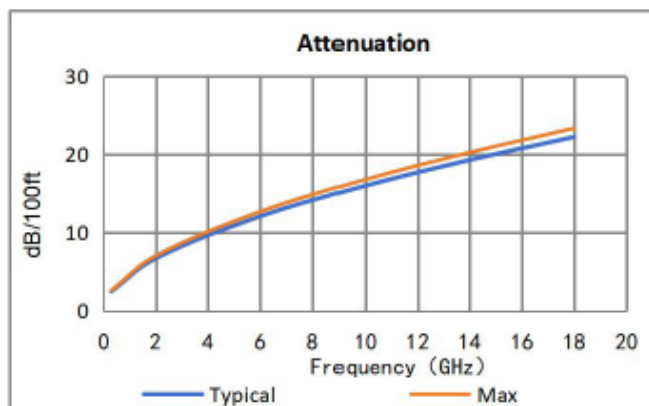
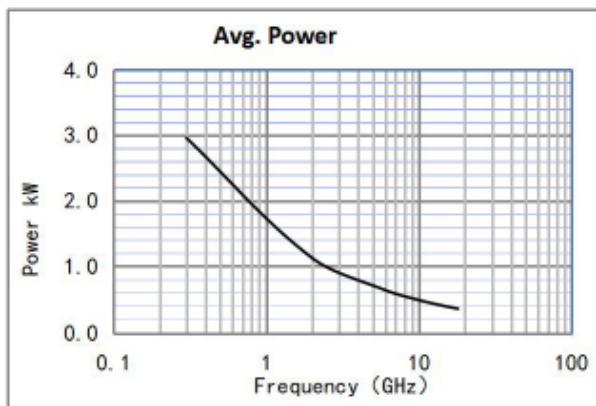
	Description	Size (mm) Tol.	Size (inch) Tol.	Materials
1	Center Conductor	2.30 ± 0.03	0.0906 ± 0.00118	Silver Plated Copper
2	Dielectric	6.02 ± 0.10	0.2370 ± 0.00393	LD PTFE
3	Outer Conductor	6.34 ± 0.10	0.2496 ± 0.00393	Silver Plated Copper Ribbon
4	Outer Shield	6.78 ± 0.12	0.2669 ± 0.00472	Silver Plated Copper
5	Jacket	7.40 ± 0.15	0.2920 ± 0.00590	Grey FEP

Mechanical & Environmental Specifications

Bend Radius: Installation (inches)	1.6
Bend Radius: Repeated (inches)	3.2
Weight (LBS/FT)	0.09
Temp: Operating and Installation (°C)	-55 ~ 165
Temp: Storage (°C)	-65 ~ 165

Electrical Specifications

Operating Frequency (GHz)	18
Impedance (Ohms)	50
Velocity of Propagation	85%
Shielding Effectiveness (dB)	90
Voltage Withstanding (V, DC)	3600



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

Frequency MHz	300	1000	2000	4000	6000	8000	10000	12000	14000	16000	18000
dB/100 m	8.3	15.4	22.1	31.9	39.7	46.4	52.5	58.1	63.4	68.3	73.0
dB/100 ft	2.50	4.69	6.70	9.73	12.10	14.15	16.00	17.71	19.30	20.82	22.3
Avg. Power kW	2.956	1.603	1.122	0.783	0.634	0.542	0.481	0.436	0.401	0.373	0.350

Calculate Attenuation = $K1 \cdot \sqrt{FMHz} + K2 \cdot FMHz$ where $K1 = 0.4692908$ & $K2 = 0.0005595$

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