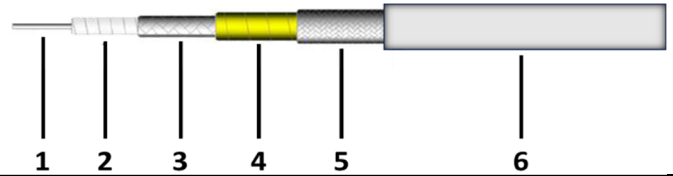


VT-190S – High Performance Coaxial Cable



Features & Benefits

- 76% Velocity of Propagation
- PTFE Tape + SPC Ribbon + Tri-Shield
- Low Loss, Excellent Bending Performance, Durable

Construction Specification

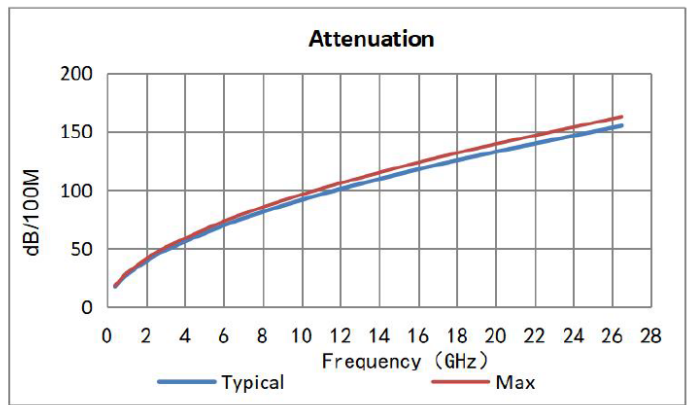
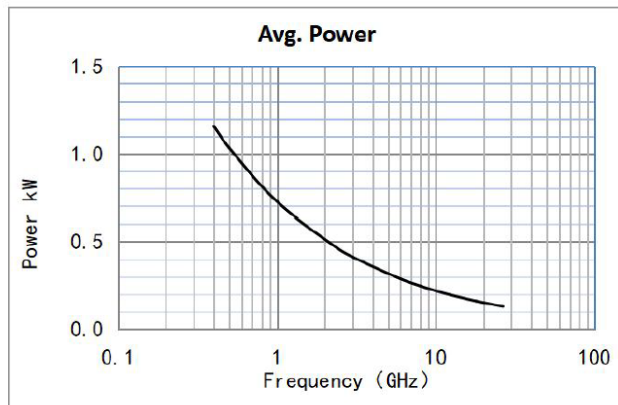
	Description	Size (mm) Tol.	Size (inch) Tol.	Materials
1	Center Conductor	1.29 ± 0.02	0.0508 ± 0.0008	Silver Plated Copper
2	Dielectric	3.91 ± 0.05	0.1539 ± 0.0032	LD PTFE
3	Outer Conductor	4.23 ± 0.05	0.1665 ± 0.0032	Silver Plated Copper Ribbon
4	Inner Layer	4.32 ± 0.05	0.1701 ± 0.0040	Aluminum Laminate
5	Outer Shield	4.76 ± 0.08	0.1874 ± 0.0040	Silver Plated Copper
6	Jacket	5.20 ± 0.10	0.2047 ± 0.0060	Grey FEP

Mechanical & Environmental Specifications

Bend Radius: Installation (inches)	0.98
Bend Radius: Repeated (inches)	2.05
Weight (Grams/FT)	18.3
Temp: Operating and Installation (°C)	-55 ~ 200
Temp: Storage (°C)	-65 ~ 200

Electrical Specifications

Operating Frequency (GHz)	26.5
Impedance (Ohms)	50
Velocity of Propagation	76%
Shielding Effectiveness (dB)	100
Voltage Withstanding (V, DC)	1500



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

Frequency MHz	400	500	1000	2400	3000	6000	8000	10000	24400	18000	26500
dB/100 m	17.36	19.44	27.67	43.36	48.67	69.87	81.31	91.53	102.67	125.51	155.03
dB/100 ft	5.29	5.93	8.43	13.22	14.83	21.3	24.78	27.9	31.29	38.25	47.25
Avg. Power kW	1.157	1.033	0.726	0.463	0.413	0.287	0.247	0.219	0.196	0.160	0.130

Calculate Attenuation = $K1 \cdot \sqrt{FMHz} + K2 \cdot FMHz$ where $K1 = 0.8562336$ & $K2 = 0.0005906$

Version A Release Date Oct 2023.

Distributed By East Coast Microwave Sales & Distribution LLC, 470 Wildwood Avenue, Woburn MA 01801
 Telephone: 1.800.STOCKROOM – EMAIL: Sales@ecmstockroom.com – Website: www.ecmstockroom.com