

Structural parameters

Item	material	Material diameter (mm)
Inner conductor	Bare copper wire or copper clad aluminum wire	3.60
Insulator	Foamed polyethylene	8.80
Outer conductor	Threaded copper tube	12.10
sheath	Polyethylene (PE) or low-smoke halogen-free flame-retardant polyethylene	13.40

Electrical performance parameters

Operating Frequency Band(Hz)	1-12500
Cable Impedance(ohm)	50 ohm \pm 1 ohm
Capacitance(pF/m)	79.7
dc Resistance, Inner Conductor(Ω /km)	2.85/1.78
dc Resistance, Outer Conductor(Ω /km)	3.5
dc Test Voltage(V)	400
Peak Power(kw)	19
Operating temperature($^{\circ}$ C)	-70~80

Return Loss/VSWR

Frequency Band	VSWR	Return Loss (dB)
680–800 MHz	1.130	24.30
800–960 MHz	1.130	24.30
1700–2200 MHz	1.130	24.30
2300–2700 MHz	1.130	24.30

Attenuation

Frequency Band	Attenuation (dB/m)	Average Power (kW)
100	3.22	3.03
200	4.65	2.11
450	7.20	1.37
800	9.86	1.00
900	10.56	0.94
1000	11.15	0.88
1500	13.80	0.70
1800	15.55	0.63
2000	16.40	0.59
2200	17.35	0.56
2400	18.10	0.53
2500	18.50	0.52
3000	20.90	0.48


