

# Wideband Coaxial Cables

## RF6(1/4")

### Construction

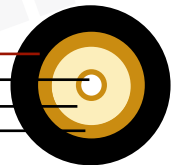
Inner conductor	Copper clad Aluminium	Φ2.54 mm
Dielectric	Foam PE	Φ6.89 mm
Outer conductor	Corrugated copper	Φ7.87 mm
Sheath	PE/LSOH	Φ8.89 mm

### Electrical & Mechanical Characteristics

Impedance	50±3 Ohm
Nominal capacitance	76.8 pF/m
Velocity of propagation	86%
Insulation resistance	>5000 Mohm.Km
Inner conductor resistance	5.15 Ohm/Km
Outer conductor resistance	4.00 Ohm/Km
Installation temperature range	-40°C - +60 °C
Operating temperature range	-55°C - +85°C
Test voltage	4 KV
Cable weight (approx.)	90 kg/km
Operating Frequency Band	1 – 15.8 GHz
Screening effectiveness	>120dB



PE/LSOH sheath  
Copper clad Aluminium inner conductor  
Foam PE dielectric  
Corrugated copper tube



### Attenuation

Frequency (MHz)	Attenuation (dB/100m)	Attenuation (dB/100ft)	Frequency (MHz)	Attenuation (dB/100m)	Attenuation (dB/100ft)
10	1.25	0.38	2100	20.56	6.27
100	4.05	1.23	2200	21.10	6.43
150	4.99	1.52	2300	21.64	6.60
200	5.80	1.77	2500	22.69	6.92
300	7.17	2.19	2700	23.70	7.23
450	8.88	2.71	3000	25.17	7.67
500	9.39	2.86	4000	29.72	9.06
700	11.24	3.43	5000	33.87	10.33
800	12.08	3.68	6000	37.74	11.51
900	12.84	3.91	8000	44.89	13.69
1000	13.64	4.16	8800	47.58	14.51
1500	17.04	5.20	10000	51.48	15.70
1700	18.27	5.57	12000	57.66	17.58
1800	18.86	5.75	140000	63.55	19.38
2000	20.00	6.10	158000	68.65	20.93

### Return Loss

806-960 MHz	23dB
1700-2000 MHz	23dB