

# Wideband Coaxial Cables

## RF42(1-5/8")

### Construction

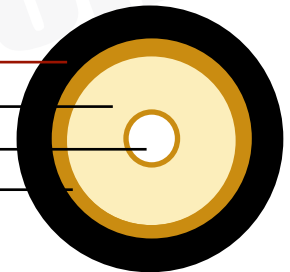
Inner conductor	Corrugated copper tube	Φ17.4 mm
Dielectric	Foam PE	Φ42.8 mm
Outer conductor	Corrugated copper	Φ46.5 mm
Sheath	PE/LSOH	Φ49.5 mm

### Electrical & Mechanical Characteristics

Impedance	50±3 Ohm
Nominal capacitance	76 pF/m
Velocity of propagation	88%
Insulation resistance	>5000 Mohm.Km
Inner conductor resistance	0.82 Ohm/Km
Outer conductor resistance	0.43 Ohm/Km
Installation temperature range	-40°C - +60 °C
Operating temperature range	-55°C - +85°C
Test voltage	11 KV
Cable weight (approx.)	1340kg/km
Operating Frequency Band	1 – 2700 MHz
Screening effectiveness	>120dB



PE/LSOH sheath  
Foam PE dielectric  
Corrugated copper tube inner conductor  
Corrugated copper tube



### Attenuation

Frequency (MHz)	Attenuation (dB/100m)	Attenuation (dB/100ft)	Frequency (MHz)	Attenuation (dB/100m)	Attenuation (dB/100ft)
10	0.20	0.06	1500	3.10	0.94
100	0.67	0.20	1700	3.35	1.02
150	0.83	0.25	1800	3.47	1.06
200	0.98	0.30	1900	3.66	1.12
300	1.22	0.37	2000	3.71	1.13
450	1.53	0.47	2100	3.82	1.16
500	1.63	0.50	2200	3.93	1.20
700	1.97	0.60	2300	4.05	1.23
800	2.13	0.65	2500	4.27	1.30
900	2.28	0.69	2700	4.48	1.37
1000	2.43	0.74			

### Return Loss

806-960 MHz	24.3dB
1700-2000 MHz	24.3dB