



RFC-240 50 Ohms Coaxial Cable

CONSTRUCTION

Inner Conductor

Insulation

Outer Conductor

Jacket



PROPERTIES

Min. Bending Radius: 19.1 mm

Max. Pulling Tension 372 N

Crush resistance of cable (load of 700N) < 1 %

Admissible Ambient Temperature -40~+85 °C

PHYSICAL SPECIFICATIONS

Center Conductor Solid Bare Copper

Conductor Dia.(+/-0.02mm) 1.42

Min. Break Strength (N) 728

Insulation Foamed Polyethylene

Insulation Dia.(+/-0.10mm) 3.81

Color Neutral

Centricity (%) ≥ 90

Adhesion 10 to 100N @ 25mm

1st Outer Conductor Bonded Aluminum Foil

Overlapping $\geq 115\%$

Dia.(+/-0.10mm) 3.94

2nd Outer Conductor Tinned Copper Braid

Conductor Dia.(+/-0.01mm) 0.12

No. of Wires 144

Coverage (+/-3%) 90

Outer Jacket PVC

Outer Dia (+/-0.10mm) 6.10

Tensile strength $\geq 13.5 \text{ N/mm}^2$

Elongation at break $\geq 300\%$

Adhesion 20 to 80N @ 50mm

Printing

Shireen RFC ® 240 Low Loss 50 ohms Cable ww/yy
+ footage marking

ELECTRICAL CHARACTERISTICS

Characteristic Impedance 50 $\pm 3\text{ohm}$

Capacitance 79 $\pm 3\text{pF/m}$

Velocity Ratio $> 84\%$

DC Resistance: Centre Conductor < 10.50 ohm/km

DC Resistance: Outer Conductor < 12.76 ohm/km

Peak Power rating 5.60 Kw

Cut Off Frequency 31.00 GHz

Insulation Resistance $> 5,000 \text{ M}\Omega \cdot \text{km}$

Dielectric Strength 1600 VAC

Voltage Withstand 1500 VDC

Screening Factor at 1 - 1000MHz $> 90 \text{ dB}$

Frequency	Attenuation (at 20 °C)
30 MHz	1.34 dB/100Ft
50 MHz	1.74 dB/100Ft
100 MHz	2.50 dB/100Ft
150 MHz	3.02 dB/100Ft
220 MHz	3.66 dB/100Ft
450 MHz	5.27 dB/100Ft
900 MHz	7.56 dB/100Ft
1500 MHz	9.88 dB/100Ft
1800 MHz	10.85 dB/100Ft
2000 MHz	11.49 dB/100Ft
2500 MHz	12.92 dB/100Ft
3000 MHz	14.36 dB/100Ft
5800 MHz	20.4 dB/100Ft