



RFC-240-FR 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

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 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 LSZH-FRPE
Outer Dia (+/-0.10mm) 6.10
TPE Compound: DW9023B-2C (IEC60332-3)
Smoke Index Test Method IEC 61034-2
Toxicity Index Test Method IEC 60754-2

Printing
Shireen RFC @ 240-FR Low Loss 50 ohms Cable ww/yy
+ footage marking
Operating Temperature -40 deg to +85 deg C

ELECTRICAL SPECIFICATIONS

Characteristic Impedance 50 +-3ohm
Capacitance 79 ±3pF/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 -km
Dielectric Strength 1600 VCA
Voltage Withstand 1500 VDC

Screening Factor at 1 - 1000MHz > 90 dB

Frequency	Attenuation (at 20)
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