



RFC-100A 50 Ohms Coaxial Cable



CONSTRUCTION

Inner Conductor
 Insulation
 Outer Conductor
 Jacket



PROPERTIES

Min. Bending Radius: 6.4 mm
Max. Pulling Tension 78 N
Crush resistance of cable (load of 700N) < 1 %
Admissible Ambient Temperature -40~+85 °C

PHYSICAL SPECIFICATIONS

Center Conductor Solid BCCS
 Conductor Dia.(+/-0.01mm) 0.46
 Min. Break Strength (N) 128

Insulation Solid Polyethylene
 Insulation Dia.(+/-0.10mm) 1.52
 Color Neutral
 Centricity (%) ≥ 90
 Adhesion 10 to 100N @ 25mm

1st Outer Conductor Bonded Aluminum Foil
 Overlapping ≥ 115%
 Dia.(+/-0.10mm) 1.65

2nd Outer Conductor Tinned Copper Braid
 Conductor Dia.(+/-0.01mm) 0.10
 No. of Wires 80
 Coverage (+/-3%) 90

Outer Jacket PVC
 Outer Dia (+/-0.10mm) 2.79
 Tensile strength ≥ 13.5 N/mm²
 Elongation at break ≥ 100 %
 Adhesion 20 to 80N @ 50mm

Printing

Shireen RFC ® 100A Low Loss 50 ohms Cable ww/yy
 + footage marking

ELECTRICAL CHARACTERISTICS

Characteristic Impedance 50 +-3ohm
Capacitance 101 ±3pF/m
Velocity Ratio > 66 %

DC Resistance: Centre Conductor < 266.0 ohm/km
DC Resistance: Outer Conductor < 31.2 ohm/km

Peak Power rating 0.60 Kw
Cut Off Frequency 90.00 GHz
Insulation Resistance > 5,000 MΩ·km
Dielectric Strength 1600 VAC
Voltage Withstand 500 VDC

Screening Factor at 1 - 1000MHz > 90 dB

Frequency	Attenuation (at 20 °C)
30 MHz	3.93 dB/100Ft
50 MHz	5.09 dB/100Ft
100 MHz	7.25 dB/100Ft
150 MHz	8.96 dB/100Ft
220 MHz	10.91 dB/100Ft
450 MHz	15.82 dB/100Ft
900 MHz	22.83 dB/100Ft
1500 MHz	30.08 dB/100Ft
1800 MHz	33.22 dB/100Ft
2000 MHz	35.20 dB/100Ft
2500 MHz	39.80 dB/100Ft
3000 MHz	43.83 dB/100Ft
5800 MHz	64.1 dB/100Ft