



RFC-600 50 Ohms Coaxial Cable

CONSTRUCTION

Inner Conductor

Insulation

Outer Conductor

Jacket



PROPERTIES

Min. Bending Radius: 38.1 mm

Max. Pulling Tension 1750 N

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

Admissible Ambient Temperature -40~+85 °C

PHYSICAL SPECIFICATIONS

Center Conductor Solid CCA
Conductor Dia.(+/-0.03mm) 4.47
Min. Break Strength (N) 1700

Insulation Foamed Polyethylene
Insulation Dia.(+/-0.20mm) 11.56
Color Neutral
Centricity (%) ≥ 85
Adhesion 10 to 100N @ 25mm

1st Outer Conductor Bonded Aluminum Foil
Overlapping ≥ 115%
Dia.(+/-0.10mm) 11.71

2nd Outer Conductor Tinned Copper Braid
Conductor Dia.(+/-0.01mm) 0.18
No. of Wires 240
Coverage (+/-3%) 95

Outer Jacket PE
Outer Dia (+/-0.10mm) 14.99
Tensile strength ≥ 16.2 N/mm²
Elongation at break ≥ 700 %
Adhesion 20 to 80N @ 50mm

Printing

Shireen RFC ® 600 Low Loss 50 ohms Cable ww/yy
+ footage marking

ELECTRICAL CHARACTERISTICS

Characteristic Impedance 50 +-3ohm
Capacitance 77 ±3pF/m
Velocity Ratio > 87 %

DC Resistance: Centre Conductor < 4.60 ohm/km
DC Resistance: Outer Conductor < 5.40 ohm/km

Peak Power rating 40.00 Kw
Cut Off Frequency 10.30 GHz
Insulation Resistance > 5,000 MΩ·km
Dielectric Strength 1600 VAC
Voltage Withstand 4000 VDC

Screening Factor at 1 - 1000MHz > 90 dB

Frequency	Attenuation (at 20 °C)
30 MHz	0.43 dB/100Ft
50 MHz	0.55 dB/100Ft
100 MHz	0.85 dB/100Ft
150 MHz	0.98 dB/100Ft
220 MHz	1.19 dB/100Ft
450 MHz	1.71 dB/100Ft
900 MHz	2.50 dB/100Ft
1500 MHz	3.32 dB/100Ft
1800 MHz	3.69 dB/100Ft
2000 MHz	3.90 dB/100Ft
2500 MHz	4.42 dB/100Ft
3000 MHz	5.06 dB/100Ft
5800 MHz	7.3 dB/100Ft