



RFC-195 50 Ohms Coaxial Cable

CONSTRUCTION

Inner Conductor

Insulation

Outer Conductor

Jacket



PROPERTIES

Min. Bending Radius: 12.7 mm

Max. Pulling Tension 245 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) 0.94

Min. Break Strength (N) 293

Insulation Foamed Polyethylene

Insulation Dia.(+/-0.10mm) 2.80

Color Neutral

Centricity (%) ≥ 90

Adhesion 10 to 100N @ 25mm

1st Outer Conductor Bonded Aluminum Foil

Overlapping $\geq 115\%$

Dia.(+/-0.10mm) 2.95

2nd Outer Conductor Tinned Copper Braid

Conductor Dia.(+/-0.01mm) 0.11

No. of Wires 112

Coverage (+/-3%) 90

Outer Jacket PVC

Outer Dia (+/-0.10mm) 4.95

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

Elongation at break $\geq 300\%$

Adhesion 20 to 80N @ 50mm

Printing

Shireen RFC ® 195 Low Loss 50 ohms Cable ww/yy
+ footage marking

ELECTRICAL CHARACTERISTICS

Characteristic Impedance 50 $\pm 3\Omega$

Capacitance 83 $\pm 3\text{pF/m}$

Velocity Ratio > 80 %

DC Resistance: Centre Conductor < 24.94 Ω/km

DC Resistance: Outer Conductor < 16.1 Ω/km

Peak Power rating 2.50 Kw

Cut Off Frequency 41.00 GHz

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

Dielectric Strength 1600 VAC

Voltage Withstand 1000 VDC

Screening Factor at 1 - 1000MHz > 90 dB

Frequency	Attenuation (at 20 °C)	
30 MHz	1.98	dB/100Ft
50 MHz	2.56	dB/100Ft
100 MHz	3.66	dB/100Ft
150 MHz	4.45	dB/100Ft
220 MHz	5.39	dB/100Ft
450 MHz	7.77	dB/100Ft
900 MHz	11.12	dB/100Ft
1500 MHz	14.54	dB/100Ft
1800 MHz	16.00	dB/100Ft
2000 MHz	16.89	dB/100Ft
2500 MHz	19.02	dB/100Ft
3000 MHz	21.00	dB/100Ft
5800 MHz	29.90	dB/100Ft