

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 ≥ 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 ≥ 13.5 N/mm²

Elongation at break ≥ 300 %

Adhesion 20 to 80N @ 50mm

Printing

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

ELECTRICAL CHARACTERISTICS

Characteristic Impedance 50 +3ohm

Capacitance 83 ±3pF/m

Velocity Ratio > 80 %

DC Resistance: Centre Conductor < 24.94 ohm/km

DC Resistance: Outer Conductor < 16.1 ohm/km

Peak Power rating 2.50 Kw

Cut Off Frequency 41.00 GHz

Insulation Resistance > 5,000 MΩ·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