

## 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 °C

## 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 (%)  $\geq 90$   
Adhesion 10 to 100N @ 25mm

**1st Outer Conductor** Bonded Aluminum Foil  
Overlapping  $\geq 115\%$   
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** PVC  
Outer Dia (+/-0.10mm) 6.10  
Tensile strength  $\geq 13.5 \text{ N/mm}^2$   
Elongation at break  $\geq 300\%$   
Adhesion 20 to 80N @ 50mm

## Printing

Shireen RFC @ 240 Low Loss 50 ohms Cable ww/yy  
+ footage marking

## ELECTRICAL CHARACTERISTICS

**Characteristic Impedance** 50  $\pm 3\text{ohm}$   
**Capacitance** 79  $\pm 3\text{pF/m}$   
**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  $\text{M}\Omega \cdot \text{km}$   
**Dielectric Strength** 1600 VAC  
**Voltage Withstand** 1500 VDC

**Screening Factor at 1 - 1000MHz** > 90 dB

Frequency	Attenuation (at 20 °C)
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