



RFC-240-UF 50 Ohms Coaxial Cable

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 Stranded Bare Copper
 Conductor Dia.(+/-0.02mm) 1.42 (0.485/7)
 Min. Break Strength (N) 740

Insulation Foamed Polyethylene
 Insulation Dia.(+/-0.10mm) 3.81
 Color Neutral
 Centricity (%) ≥ 90
 Adhesion 30 to 50N @ 25mm

1st Outer Conductor Bonded Aluminum Foil
 Overlapping ≥ 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 Thermoplastic Elastomer
 Outer Dia (+/-0.10mm) 6.10
 Tensile strength ≥ 9.9 N/mm²
 Elongation at break ≥ 390 %
 Adhesion 20 to 80N @ 50mm

Printing

Shireen RFC ® 240-UF UltraFlex 50 ohms Cable ww/yy
 + footage marking

ELECTRICAL CHARACTERISTICS

Characteristic Impedance 50 +-3ohm
Capacitance 79 ±3pF/m
Velocity Ratio > 84 %

DC Resistance: Centre Conductor < 14.10 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 MΩ·km
Dielectric Strength 1600 VAC
Voltage Withstand 1500 VDC

Screening Factor at 1 - 1000MHz > 90 dB

Frequency	Attenuation (at 20 °C)
30 MHz	1.60 dB/100Ft
50 MHz	2.10 dB/100Ft
100 MHz	2.98 dB/100Ft
150 MHz	3.60 dB/100Ft
220 MHz	4.40 dB/100Ft
450 MHz	6.30 dB/100Ft
900 MHz	9.10 dB/100Ft
1500 MHz	11.80 dB/100Ft
1800 MHz	13.00 dB/100Ft
2000 MHz	13.80 dB/100Ft
2500 MHz	15.50 dB/100Ft
3000 MHz	17.00 dB/100Ft
5800 MHz	24.4 dB/100Ft