



RFC-400-UF 50 Ohms Coaxial Cable

CONSTRUCTION

Inner Conductor
Insulation
Outer Conductor
Jacket



PROPERTIES

Min. Bending Radius: 25.4 mm
Max. Pulling Tension 740 N
Crush resistance of cable (load of 700 \uparrow) < 1 %
Admissible Ambient Temperature -40~+85 °C

PHYSICAL SPECIFICATIONS

Center Conductor Stranded Bare Copper
Conductor Dia.(+/-0.02mm) 2.74 (0.95/7)
Min. Break Strength (N) 2200

Insulation Foamed Polyethylene
Insulation Dia.(+/-0.10mm) 7.24
Color Neutral
Centricity (%) ≥ 90
Adhesion 10 to 100N @ 25mm

1st Outer Conductor Bonded Aluminum Foil
Overlapping $\geq 115\%$
Dia.(+/-0.10mm) 7.39

2nd Outer Conductor Tinned Copper Braid
Conductor Dia.(+/-0.01mm) 0.15
No. of Wires 192
Coverage (+/-3%) 95

Outer Jacket Thermoplastic Elastomer
Outer Dia (+/-0.10mm) 10.29
Tensile strength $\geq 9.9 \text{ N/mm}^2$
Elongation at break $\geq 390 \%$
Adhesion 40 to 100N @ 50mm

Printing
Shireen RFC @ 400-UF UltraFlex 50 ohms Cable ww/yy
+ footage marking

ELECTRICAL CHARACTERISTICS

Characteristic Impedance 50 $\pm 3\text{ohm}$
Capacitance 78 $\pm 3\text{pF/m}$
Velocity Ratio > 85 %

DC Resistance: Centre Conductor < 3.51 ohm/km
DC Resistance: Outer Conductor < 5.40 ohm/km

Peak Power rating 16.00 Kw
Cut Off Frequency 16.20 GHz
Insulation Resistance > 5,000 M Ω ·km
Dielectric Strength 1600 VAC
Voltage Withstand 2500 VDC

Screening Factor at 1 - 1000MHz > 90 dB

Frequency	Attenuation (at 20 °C)	
30 MHz	0.80	dB/100Ft
50 MHz	1.10	dB/100Ft
100 MHz	1.44	dB/100Ft
150 MHz	1.80	dB/100Ft
220 MHz	2.20	dB/100Ft
450 MHz	3.30	dB/100Ft
900 MHz	4.70	dB/100Ft
1500 MHz	6.20	dB/100Ft
1800 MHz	6.80	dB/100Ft
2000 MHz	7.20	dB/100Ft
2500 MHz	8.10	dB/100Ft
3000 MHz	9.40	dB/100Ft
5800 MHz	13.00	dB/100Ft