# RFC-240-UF 50 Ohms Coaxial Cable

SHIREEN

RoHS COMPLIANT

## 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 | ℃ |

## 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/mm$^2$ |
| 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 ℃) | |
|---|---|---|
| 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 |