

CONSTRUCTION

Inner Conductor

Insulation

Outer Conductor

Jacket



PROPERTIES

Min. Bending Radius: 38.5 mm

Max. Pulling Tension 1750 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)	4.47 (1.58/7)
Min. Break Strength (N)	6000
Insulation	Foamed Polyethylene
Insulation Dia.(+/-0.20mm)	11.56
Color	Neutral
Centricity (%)	≥ 90
Adhesion	10 to 100N @ 25mm
1st Outer Conductor	Bonded Aluminum Foil
Overlapping	≥ 115%
Dia.(+/-0.20mm)	11.71
2nd Outer Conductor	Tinned Copper Braid
Conductor Dia.(+/-0.01mm)	0.18
No. of Wires	240
Coverage (+/-3%)	95
Outer Jacket	Thermoplastic Elastomer
Outer Dia (+/-0.10mm)	14.99
Tensile strength	≥ 9.9 N/mm ²
Elongation at break	≥ 390 %
Adhesion	40 to 100N @ 50mm

Printing

Shireen RFC ® 600-UF UltraFlex 50 ohms Cable ww/yy
+ footage marking

ELECTRICAL CHARACTERISTICS

Characteristic Impedance 50 +3ohm

Capacitance 77 ±3pF/m

Velocity Ratio > 86 %

DC Resistance: Centre Conductor < 1.70 ohm/km

DC Resistance: Outer Conductor < 3.90 ohm/km

Peak Power rating 40.00 Kw

Cut Off Frequency 16.20 GHz

Insulation Resistance > 10,000 MΩ·km

Dielectric Strength 4000 VCA

Voltage Withstand 4000 VDC

Screening Factor at 1 - 1000MHz > 90 dB

Frequency	Attenuation (at 20 °C)
30 MHz	0.50 dB/100Ft
50 MHz	0.70 dB/100Ft
150 MHz	1.20 dB/100Ft
220 MHz	1.40 dB/100Ft
450 MHz	2.10 dB/100Ft
900 MHz	3.00 dB/100Ft
1500 MHz	4.00 dB/100Ft
1800 MHz	4.40 dB/100Ft
2000 MHz	4.70 dB/100Ft
2500 MHz	5.30 dB/100Ft
5800 MHz	8.70 dB/100Ft