RFC-100A 50 Ohms Coaxial Cable

CONSTRUCTION

Inner Conductor

Insulation

Outer Conductor

Jacket

PROPERTIES

Min. Bending Radius:	6.4	mm
Max. Pulling Tension	78	N
Crush resistance of cable (load of 700N)	< 1	%
Admissible Ambient Temperature		
	-40~+85	℃

PHYSICAL SPECIFICATIONS

Center Conductor	Solid BCCS
Conductor Dia.(+/-0.01mm)	0.46
Min. Break Strength (N)	128
Insulation	Solid Polyethylene
Insulation Dia.(+/-0.10mm)	1.52
Color	Neutral
Centricity (%)	⩾ 90
Adhesion	10 to 100N @ 25mm
1st Outer Conductor	Bonded Aluminum Foil
Overlapping	⩾ 115%
Dia.(+/-0.10mm)	1.65
2nd Outer Conductor	Tinned Copper Braid
Conductor Dia.(+/-0.01mm)	0.10
No. of Wires	80
Coverage (+/-3%)	90
Outer Jacket	PVC
Outer Dia (+/-0.10mm)	2.79
Tensile strength	⩾ 13.5 N/mm^2
Elongation at break	⩾ 100 %
Adhesion	20 to 80N @ 50mm

Printing

Shireen RFC ® 100A Low Loss 50 ohms Cable ww/yy
+ footage marking

ELECTRICAL CHARACTERISTICS

Characteristic Impedance	50	+-3ohm
Capacitance	101	±3pF/m
Velocity Ratio	> 66	%
DC Resistance: Centre Conductor	< 266.0	ohm/km
DC Resistance: Outer Conductor	< 31.2	ohm/km
Peak Power rating	0.60	Kw
Cut Off Frequency	90.00	GHz
Insulation Resistance	> 5,000	MΩ·km
Dielectric Strength	1600	VAC
Voltage Withstand	500	VDC
Screening Factor at 1 - 1000MHz	> 90	dB

Frequency	**Attenuation** (at 20 ℃)	
30 MHz	3.93	dB/100Ft
50 MHz	5.09	dB/100Ft
100 MHz	7.25	dB/100Ft
150 MHz	8.96	dB/100Ft
220 MHz	10.91	dB/100Ft
450 MHz	15.82	dB/100Ft
900 MHz	22.83	dB/100Ft
1500 MHz	30.08	dB/100Ft
1800 MHz	33.22	dB/100Ft
2000 MHz	35.20	dB/100Ft
2500 MHz	39.80	dB/100Ft
3000 MHz	43.83	dB/100Ft
5800 MHz	64.1	dB/100Ft