RG-223 50 Ohms Coaxial Cable

SHIREEN

RoHS COMPLIANT

CONSTRUCTION

Inner Conductor

Insulation

1st Outer Conductor

2nd Outer Conductor

Jacket

PROPERTIES

Min. Bending Radius:	14.5	mm
Max. Pulling Tension	150	N
Crush resistance of cable (load of 700N)	< 1	%
Rated Temperature		
Operating temperature	-40~+85	℃
Outdoor Installation	-20	℃

PHYSICAL SPECIFICATIONS

Center Conductor	Solid Sliver Plated Copper
Conductor Dia.(+/-0.015mm)	0.90
Min. Break Strength (N)	300
Insulation	Solid Polyethylene
Insulation Dia.(+/-0.10mm)	2.95
Color	Neutral
Centricity (%)	⩾ 85
Adhesion	5 to 25N @ 25mm
1st Outer Conductor	Sliver Plated Bare Copper Braid
Conductor Dia.(+/-0.01mm)	0.12
No. of Wires	112
Coverage (+/-3%)	90
2nd Outer Conductor	Sliver Plated Bare Copper Braid
Conductor Dia.(+/-0.01mm)	0.12
No. of Wires	128
Coverage (+/-3%)	95
Outer Jacket	PVC
Outer Dia (+/-0.20mm)	5.30
Tensile strength	⩾ 12.5 N/mm^2
Elongation at break	⩾ 150 %
Adhesion	150 to 250N @ 200mm

Printing

Shireen RFC ® RG223 50 ohms Cable ww/yy + footage marking

ELECTRICAL CHARACTERISTICS

Characteristic Impedance	50	+-3ohm
Capacitance	101	±3pF/m
Velocity Ratio	> 66	%
DC Resistance: Centre Conductor	< 28.0	ohm/km
DC Resistance: Outer Conductor	< 7.00	ohm/km
Peak Power rating	2.10	Kw
Cut Off Frequency	32.00	GHz
Insulation Resistance	> 2,500	MΩ·km
Dielectric Strength	1000	VAC
Voltage Withstand	2000	VDC
Screening Factor at 1 - 1000MHz	> 90	dB

Frequency	**Attenuation** (at 20 ℃)	
1 MHz	0.35	dB/100Ft
10 MHz	1.20	dB/100Ft
50 MHz	2.80	dB/100Ft
100 MHz	4.10	dB/100Ft
200 MHz	6.00	dB/100Ft
400 MHz	8.80	dB/100Ft
500 MHz	9.90	dB/100Ft
700 MHz	12.00	dB/100Ft
900 MHz	13.80	dB/100Ft
1000 MHz	14.50	dB/100Ft
3000 MHz	25.74	dB/100Ft