

Technical Data Sheet

Flexible Coaxial Cable 50 Ω - PE - Double Shielding

RG-223/U

Connector parts		Material			Diar	neter	
Inner Conductor		Copper, S	ilver plate	d	0.88	3 mm	
Dielectric		PE (Polyeth	nylene)		2.9	ō mm	
First Outer Shield		Copper, S	ilver plate	d	3.6	mm	
Second Outer Shield		Copper, S			4.2	mm	
Jacket		PVC II (Pol			5.4	mm	
Electrical Data							
Impedance		50 Ω ± 2					
Frequency		DC to 6 G	,Hz				
Capacitance		101 pF/m					
Velocity of signal propa	gation	66 %					
Signal delay		5 ns/m					
Insulation resistance		$\geq 1 \times 10^8 $					
Screening effectiveness		≥ 85 dB (up to 1 GHz)					
Operating voltage		≤ 2.5 kVrms (@ sea level)					
Mechanical Data							
Weight		55 g/m					
Min. bending radius		30 mm (Static)					
		54 mm (Dynamic)					
Environmental Data							
Temperature range		-25°C to +85°C					
Installation temperature		-20°C to +60°C					
RoHS (2011/65/EU)		compliant					
Typical Attenuation							
Frequency (GHz)	Typical Attenuation	(dB/m)		Attenuation (dB/ft)		/ power (Watt) sea level	
	@ 25°C sea level		@ 25°	C sea level	@ 40°C		
0.3	@ 25°C sea level 0.23		@ 25°0	C sea level	@ 40°C : 219		
				C sea level			
0.6	0.23		0.07	C sea level	219		
0.6 0.9	0.23 0.34		0.07 0.10	C sea level	219 155		
0.6 0.9 1.2	0.23 0.34 0.42		0.07 0.10 0.13	C sea level	219 155 126		
0.6	0.23 0.34 0.42 0.5		0.07 0.10 0.13 0.15	C sea level	219 155 126 110		
1.8	0.23 0.34 0.42 0.5 0.64 0.76		0.07 0.10 0.13 0.15 0.20 0.23	C sea level	219 155 126 110 89		
0.6 0.9 1.2 1.8 2.4 3	0.23 0.34 0.42 0.5 0.64 0.76 0.88		0.07 0.10 0.13 0.15 0.20 0.23 0.27	C sea level	219 155 126 110 89 77 69		
0.6 0.9 1.2 1.8 2.4	0.23 0.34 0.42 0.5 0.64 0.76		0.07 0.10 0.13 0.15 0.20 0.23	C sea level	219 155 126 110 89 77		
0.6 0.9 1.2 1.8 2.4 3 5.1	0.23 0.34 0.42 0.5 0.64 0.76 0.88 1.23		0.07 0.10 0.13 0.15 0.20 0.23 0.27 0.38	C sea level	219 155 126 110 89 77 69 53		
0.6 0.9 1.2 1.8 2.4 3 5.1 6	0.23 0.34 0.42 0.5 0.64 0.76 0.88 1.23 1.37 are carefully compiled to the		0.07 0.10 0.13 0.15 0.20 0.23 0.27 0.38 0.42	Rosnol RF/Microwave Tec	219 155 126 110 89 77 69 53 49		Pa
0.6 0.9 1.2 1.8 2.4 3 5.1 6 he facts and figures herein nowledge, but they are intern	0.23 0.34 0.42 0.5 0.64 0.76 0.88 1.23 1.37	urposes only	0.07 0.10 0.13 0.15 0.20 0.23 0.27 0.38 0.42 Rev.:-		219 155 126 110 89 77 69 53 49		Pa