



Openplatform Technology Company Limited

RG223



Construction Specifications				
Inner Conductor	Silver Plated Copper Wire, 0.88 mm			
Dielectric	Solid Polyethylene (PE), 2.95 mm			
Outer Conductor	Double Silver Braid, 3.60 mm and 4.20 mm			
Overall Braid	Tinned Copper, 96% coverage			
Jacket	Black PVC, 5.40 mm outside diameter			
Mechanical Specifications				
Bend Radius	Once: 30 mm		Repeated: 55 mm	
Weight	5.5 kg per 100 metres			
Operating Temperature	-40°C to +70°C			
Electrical Specifications				
Cutoff Frequency	5 GHz			
Velocity of Propagation	66.3 %			
Signal Delay	5.03 nS/m			
Impedance	50 Ohms			
Capacitance	100.7 pF/m			
Shielding Effectiveness	> 85 dB			
DC Resistance	Inner Conductor:		27.7 ohms/km	
	Outer Conductor:		6.7 ohms/km	
Attenuation	dB / meters		Maximum Power / Watts	
Frequency	10 MHz	0.039	10 MHz	1,000
	50 MHz	0.105	50 MHz	450
	100 MHz	0.158	100 MHz	400
	200 MHz	0.231	200 MHz	300
	400 MHz	0.330	400 MHz	200
	900 MHz	0.472	1000 MHz	150
	1000 MHz	0.545	3000 MHz	80
	3000 MHz	1.006	5000 MHz	40
	5000 MHz	1.518		



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RG142



Construction Specifications				
Inner Conductor	Silver Plated Copper Wire, 0.94 mm			
Dielectric	Solid PTFE, 2.95 mm			
Outer Conductor	Double Silver Braid, 3.95 mm			
Overall Braid	SPC Wires			
Jacket	FEP, 4.95 mm outside diameter			
Mechanical Specifications				
Bend Radius	Once: 25 mm		Repeated: 50 mm	
Weight	5.4 kg per 100 metres			
Operating Temperature	-55°C to +200°C			
Electrical Specifications				
Cutoff Frequency	5 GHz			
Velocity of Propagation	70 %			
Signal Delay	4.80 nS/m			
Impedance	50 Ohms			
Capacitance	94 pF/m			
Shielding Effectiveness	> 90 dB			
DC Resistance	Inner Conductor:		27.7 ohms/km	
	Outer Conductor:		6.7 ohms/km	
Attenuation	dB / meters		Maximum Power / Watts	
Frequency	10 MHz	0.029	10 MHz	9,000
	50 MHz	0.069	50 MHz	3,500
	100 MHz	0.109	100 MHz	2,400
	200 MHz	0.155	3000 MHz	350
	400 MHz	0.228		
	1000 MHz	0.429		
	3000 MHz	0.858		
	5000 MHz	1.320		



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7D-FB



Construction Specifications				
Inner Conductor	Bare Copper Wire, 2.6 mm			
Dielectric	Foam Polyethylene (PE), 7.3 mm			
First Shield	Bonded Aluminum Foil			
Second Shield	Tinned Copper wire Braid, 80% coverage, 8.2 mm			
Jacket	Black PVC, 9.8 mm outside diameter			
Mechanical Specifications				
Bend Radius	Minimum: 45 mm			
Weight	10 kg per 100 metres			
Operating Temperature	-25°C to +70°C			
Electrical Specifications				
Cutoff Frequency	15.8 GHz			
Velocity of Propagation	82 %			
Signal Delay	-			
Impedance	50 Ohms			
Capacitance	84 pF/m			
Shielding Effectiveness	> 90 dB			
DC Resistance	Inner Conductor: 3.31 ohms/km Outer Conductor: 11.1 ohms/km			
Attenuation	dB / meters	Maximum Power / Watts		
Frequency	150 MHz	0.052	150 MHz	1,370
	200 MHz	0.061	200 MHz	1,160
	280 MHz	0.073	280 MHz	970
	350 MHz	0.082	350 MHz	870
	400 MHz	0.086	400 MHz	830
	800 MHz	0.123	800 MHz	580
	900 MHz	0.130	900 MHz	550
	1200 MHz	0.165	1200 MHz	430
	1500 MHz	0.187	1500 MHz	380
	1900 MHz	0.217	1900 MHz	330
	2000 MHz	0.225	2000 MHz	320
	2400 MHz	0.248	2400 MHz	290
	3000 MHz	0.284	3000 MHz	250



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LMR400



Construction Specifications				
Inner Conductor	Solid BCCAl, 2.74 mm			
Dielectric	Foam Polyethylene (PE), 7.24 mm			
Outer Conductor	Aluminum Tape, 7.39 mm			
Overall Braid	Tinned Copper, 8.13 mm			
Jacket	Black PVC, 10.29 mm outside diameter			
Mechanical Specifications				
Bend Radius	installation: 25.4 mm repeated 101.6mm			
Weight	10 kg per 100 metres			
Operating Temperature	-40°C to +85°C			
Electrical Specifications				
Cutoff Frequency	16.2 GHz			
Velocity of Propagation	85 %			
Signal Delay	3.92 nS/m			
Impedance	50 Ohms			
Capacitance	78.4 pF/m			
Shielding Effectiveness	> 90 dB			
DC Resistance	Inner Conductor: 4.6 ohms/km Outer Conductor: 5.4 ohms/km			
Attenuation	dB / meters		Maximum Power / Watts	
Frequency	30 MHz	0.022	30 MHz	3,330
	50 MHz	0.029	50 MHz	2,570
	150 MHz	0.050	150 MHz	1,470
	220 MHz	0.061	220 MHz	1,200
	450 MHz	0.089	450 MHz	830
	900 MHz	0.128	900 MHz	580
	1500 MHz	0.168	1500 MHz	440
	1800 MHz	0.186	1800 MHz	400
	2000 MHz	0.196	2000 MHz	370
	2500 MHz	0.222	2500 MHz	330
	5000 MHz	0.353	5000 MHz	210