



**RADIO FREQUENCY
INDUSTRIES (PTY.) LTD.**

"Simply The Best"

CK No : 2005/006095/07

VAT No : 4470219918

rf-sales@rfind.co.za

Phone : +27(0)11 869 9285

Fax : +27(0)86 509 2874

Cell : +27(0)82 765 3007

24 Hendrik Potgieter Street,

Corner 5th Avenue

ALBERTON NORTH, 1450

P.O. Box 1500

ALBERTON

1450



RG174 (MIL-C17-F) COAXIAL CABLE

RFi ORDER CODE : RG174

CABLE SPECIFICATIONS		ATTENUATION		
RF SPECIFICATIONS		Freq.	dB/100m	Avr. Power kW
Max. Frequency	= 1GHz	0.5MHz	1.540	0.165
Velocity Factor	= 66%	1MHz	1.920	0.117
Maximum Operating Voltage (RMS)	= 1100 Volts	1.5MHz.	2.330	0.855
Peak Power	= 1.5kV RMS (At Sea Level)	10MHz	8.730	0.354
Impedance	= 50Ω (+/- 2)	30MHz	17.840	0.259
INNER CONDUCTOR SPECIFICATIONS		50MHz	20.650	0.197
Inner Conductor Makeup	= 6 Tin Plated Copper Strands X 0.19mm Each	100MHz	30.870	0.161
Inner Conductor Overall Diameter	= 0.58mm Overall Diameter	200MHz	45.560	0.136
Inner Conductor DC-Resistance (Ω/km)	= ≤337Ω	400MHz	67.500	0.120
OUTER CONDUCTOR SPECIFICATIONS		600MHz	85.360	0.116
Outer Conductor (Braid) Makeup	= 8 Bundels X 8 Copper Strands = 64 Strands	800MHz	100.620	0.109
Outer Conductor (Braid) Makeup	= 64 Tin Plated Copper Strands X 0.12mm Each	900MHz	106.240	0.109
Outer Conductor (Braid) Diameter	= 1.85mm	1000MHz	112.300	0.108
Outer Conductor (Braid) Coverage	= 90%	Attenuation @ 20 Degree Centigrade		
Outer Conductor (Braid) DC-Resistance (Ω/km)	= 15Ω	Av. Power @ 40 Degree Centigrade		
INSULATOR SPECIFICATION				
Insulator Dielectric Specification	= White Solid Polyethylene X 1.5mm			
OUTER JACKET SPECIFICATIONS				
Outer Jacket (Sleeving) Diameter	= 0.59 Wall X 3.18mm Outer Diameter			
Outer Jacket (Sleeving) Specification	= Black Polyvinyl Chloride (PVC)			
Outer Jacket (Sleeving) UV Specification	= UV Resistant			
Outer Jacket (Sleeving) Marking	= RFi Cable RG174C/U MIL-C-17F 50 Ω			
TECHNICAL SPECIFICATIONS				
Capacitance	= 101.05pF/m			
Inductance	= 0.253 uH/m			
MECHANICAL SPECIFICATIONS				
Operating Temperature	= -40 To +75 Centigrade			
Minimum Bend Radius Installed	= 10mm			
Minimum Bend Radius Repeated	= 20mm			
Tensile Strength	= 93.412N			
Cable Weight	= 0.01g/m (1.1kg/100m)			

**Manufacturers of : Two-Way Radio Antennas, Duplexers, Filters, Combiners, Splitters, Lightning protectors & other RF Products.
Sales and Distribution of: Two-Way Radios, Repeater Systems, Power Meters, Microphones, Power Supplies, Cables & Connectors.**