

## Section 10

### COAXIAL CABLE and FITTINGS

Updated 23 February 2011

### RG214/U Double Shielded Coaxial Cable RF MAX Brand, 50 Ohm



Our RF MAX brand of double shielded 50 ohm RG214/U coaxial cable offers equivalent construction quality and performance to other "name" brands available. Compare the specifications.

RG214/U is commonly used in test leads and quality installations requiring low PIM and cross talk.

Available in cut lengths per metre, the Order Code is **7808**.

Purchase a full 100 metre roll to reduce the price per metre even further. Order **7808-100**.



#### Construction Specifications, RF MAX RG214/U Cable (7808)

<b>Centre Conductor</b>	Silver Plated Copper, 7 Strand, 2.24 mm
<b>Dielectric</b>	Solid Polyethylene (PE), 7.25 mm (± 0.02 mm)
<b>1st Braid Coverage</b>	96% Tinned Copper Braiding
<b>2nd Braid Coverage</b>	98% Tinned Copper Braiding
<b>Jacket</b>	Black PVC, 1.10 mm thick, 10.8 mm diam (± 0.10 mm)

#### Mechanical Specifications

<b>Bend Radius</b>	Static 55 mm, Dynamic 162 mm
<b>Weight</b>	18.5 kg per 100 metres
<b>Operating Temperature</b>	-40°C to +85°C

#### Electrical Specifications

<b>Impedance</b>	50 Ohms (± 3 Ohms)
<b>Maximum Frequency</b>	6 GHz
<b>Nominal Capacitance</b>	100 pF/m (± 3 pF/m)
<b>Velocity of Propagation</b>	66 %
<b>Sparker Test</b>	4,000 VAC
<b>Dielectric Strength</b>	Conductor to Shield : 10,000 VDC

#### Attenuation Per 100 metres Maximum Power

Frequency	Attenuation (dB)	Maximum Power (Watts)
100 MHz	5 dB	1028 Watts
200 MHz	9 dB	727 Watts
300 MHz	12 dB	593 Watts
400 MHz	14 dB	514 Watts
500 MHz	16 dB	460 Watts
600 MHz	18 dB	420 Watts
800 MHz	21 dB	353 Watts
850 MHz	22 dB	353 Watts
900 MHz	23 dB	343 Watts
1000 MHz	24 dB	325 Watts
1800 MHz	35 dB	242 Watts
2000 MHz	38 dB	230 Watts
2400 MHz	43 dB	210 Watts
3000 MHz	50 dB	188 Watts
4000 MHz	61 dB	163 Watts
5000 MHz	72 dB	145 Watts
6000 MHz	82 dB	133 Watts