

## Section 10

### COAXIAL CABLE and FITTINGS

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### RG58A/U Stranded MIL SPEC Coaxial Cable, 50 Ohm



RG58A/U Stranded MIL SPEC 50 Ohm coaxial cable is suitable for low power applications in the lower frequency range, such as UHF CB 477 MHz communications. A broad selection of connectors are available.

Available in cut lengths, the Order Code is **7803**. Otherwise, both a 100 metre and 300 metre roll are available at reduced prices per metre. The full roll Order Codes are **7803-100** and **7803-300** respectively.



#### Construction Specifications RG58A/U Stranded, 50 Ohm (7803)

Centre Conductor	Tinned Copper, 19 Strand, each 0.18 mm
Dielectric	Polyethylene (PE)
Overall Braid	Tinned Copper
Jacket	Black PVC, 4.95 mm outside diameter.

#### Mechanical Specifications

Minimum Bend Radius	12.7 mm
Weight	3 kg per 100 metres
Operating Temperature	-40°C to +85°C

#### Electrical Specifications

Impedance	50 Ohms
Nominal Capacitance	93.5 pF/m
Velocity of Propagation	66%

Attenuation		Per 100 metres	Maximum Power	
Frequency	30 MHz	7.60 dB	10 MHz	1,000 Watts
	50 MHz	10.90 dB	50 MHz	425 Watts
	100 MHz	17.48 dB	100 MHz	290 Watts
	400 MHz	33.08 dB	200 MHz	190 Watts
	450 MHz	35.67 dB	400 MHz	105 Watts
	700 MHz	56.20 dB	1,000 MHz	60 Watts
	800 MHz	61.06 dB	3,000 MHz	25 Watts
	900 MHz	65.92 dB	5,000 MHz	20 Watts
	1,000 MHz	70.80 dB		