

Section 10

**COAXIAL CABLE
and FITTINGS**

Updated 26 August 2009

**RG58 Low Loss Solid Core
MIL SPEC Coaxial Cable, 50 Ohm**

Availability
STOCK



RG58 low loss solid core MIL SPEC 50 ohm coaxial cable is particularly useful for applications such as cellular mobile phone antenna installations. A broad selection of connectors are available.

Available in cut lengths, the Order Code is **7839**. Otherwise, both a 100 metre and 300 metre roll are available at reduced prices per metre. The full roll Order Codes are **7839-100** and **7839-300** respectively.

A WHITE jacketed RG58 low loss cable is also in stock. Order **7839W** for cut lengths, or **7839W-300** for a full 300 metre roll.



Construction Specifications RG58 Low Loss, 50 Ohm (7839)				
Centre Conductor	Solid Bare Copper, 1.02 mm			
Dielectric	Foamed Polyethylene (PE)			
Outer Conductor	Aluminium Tape			
Overall Braid	Tinned Copper, 95% Coverage			
Jacket	Black Polyethylene (PE), 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 (± 2 Ohms)			
Nominal Capacitance	79.7 pF/m			
Velocity of Propagation	80%			
Attenuation		Per 100 metres	Maximum Power	
Frequency	30 MHz	6.3 dB	10 MHz	1,000 Watts
	50 MHz	8.1 dB	50 MHz	450 Watts
	100 MHz	12.0 dB	100 MHz	300 Watts
	150 MHz	14.1 dB	200 MHz	200 Watts
	220 MHz	17.1 dB	400 MHz	135 Watts
	450 MHz	24.6 dB	1,000 MHz	80 Watts
	900 MHz	35.0 dB	3,000 MHz	40 Watts
	1,500 MHz	45.6 dB	5,000 MHz	20 Watts
	1,800 MHz	50.1 dB		
	2,000 MHz	53.0 dB		
	2,500 MHz	59.5 dB		