

Section 10

COAXIAL CABLE and FITTINGS

Updated 13 January 2012

RG142 Teflon Insulated Miniature Coaxial Cable, 50 Ohm



RG142 miniature 50 ohm coaxial cable has a silver plated copper clad steel centre conductor with a teflon dielectric. Teflon insulated coaxial cable assemblies offer superior phase and high temperature stability.

RG142 is frequently installed in sensitive areas with minimal space. Typical examples include avionics equipment bays, medical systems, phased antenna arrays and 2-way communication infrastructure. This cable is also particularly useful for 50 ohm data link applications up to 8 GHz.

Available in cut lengths, the Order Code is **7823**.

Construction Specifications RG142 Miniature, 50 Ohm (7823)		
Centre Conductor	Silver Plated Copper Clad Steel, 0.94 mm diameter	
Dielectric	Teflon PTFE, 2.95 mm	
Outer Conductor	Silver Plated Copper Double Braid, 3.95 mm diameter	
Jacket	Teflon FEP, 4.95 mm outside diameter.	
Mechanical Specifications		
Minimum Bend Radius	25 mm	
Operating Temperature	-55°C to +200°C	
Electrical Specifications		
Impedance	50 Ohms	
Nominal Capacitance	96.45 pF/m	
Velocity of Propagation	70%	
Maximum Voltage	1,900 VMS	
Maximum Frequency	8 GHz	
Attenuation Per 100 metres		
Frequency	100 MHz	13.0 dB
	400 MHz	29.0 dB
	1,000 MHz	47.0 dB
	3,000 MHz	89.0 dB