

Section 10

COAXIAL CABLE and FITTINGS

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RG316 Teflon Insulated Miniature Coaxial Cable, 50 Ohm



RG316 miniature 50 ohm coaxial cable has silver plated copper inner and outer conductors with a teflon dielectric. Teflon insulated coaxial cable assemblies offer superior phase and high temperature stability.

RG316 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 3 GHz.

Available in cut lengths, the Order Code is **7853**.



Construction Specifications RG316 Miniature, 50 Ohm (7853)

Centre Conductor	Silver Plated Copper Clad Steel, 7 strand x 0.17 mm
Dielectric	Teflon PTFE, 1.52 mm
Overall Braid	Silver Plated Copper, 1.95 mm
Jacket	Teflon FEP, 2.50 mm outside diameter.

Mechanical Specifications

Minimum Bend Radius	13.0 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	1,200 VMS
Maximum Frequency	3 GHz

Attenuation Per 100 metres

Frequency	100 MHz	26.2 dB
	400 MHz	53.1 dB
	1,000 MHz	85.6 dB
	3,000 MHz	153.2 dB