

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 |