

# MIL-DTL-17 Coaxial Cables



QPL approved manufacturer of high temperature, high performance coaxial cables supplied in exact accordance with the MIL-DTL-17 specification. The information referenced has been taken from the MIL-DTL-17 "slant sheets" which define complete physical and electrical characteristics for each MIL-DTL-17 part number including dimensional parameters, dielectric materials, shield constructions, VSWR, and maximum attenuation over various frequency ranges.

## The Importance of VSWR Sweep Testing

When selecting a 50 ohm coaxial cable, constructions with VSWR requirements are highly recommended.

Manufacturing and sweep testing cables with concern for VSWR ensures a quality cable free of spikes over the frequency range referenced on the slant sheet.

## Precision PTFE Dielectrics Used

All of the PTFE dielectric coax cables listed are high temperature, high performance constructions exhibiting high dielectric strength and low capacitance in proportion to the cable's dielectric constant. Harbour manufactures all PTFE dielectric cable constructions with tolerances tighter than the MIL-DTL-17 specification to ensure uniformity of electrical characteristics, especially impedance, attenuation, and VSWR.

## Constructions with PTFE Tape Wrapped Jackets

A/U - in accordance with a previous revision of the MIL-DTL-17 specification.

These constructions can withstand operating temperatures up to 250 ° versus 200° C for FEP jacketed cables. PTFE tape wrapped cables are generally more flexible than their FEP jacketed counterpart. Alternative 250° constructions are also available with PFA jackets.

M17 Part	Overall Diameter	Bend Radius	Weight (lbs/mft)
M17/60-RG142	.195"	1.0"	43.0
M17/93-RG178	.071"	0.4"	6.3
M17/94-RG179	.100"	0.4"	10.8
M17/95-RG180	.141"	0.7"	19.8
M17/111-RG303	.170"	0.9"	31.0
M17/112-RG304	.280"	1.4"	94.0
M17/113-RG316	.098"	0.5"	12.2
M17/127-RG393	.390"	2.0"	165.0
M17/128-RG400	.195"	1.0"	50.0
M17/131-RG403	.116"	0.6"	15.0
M17/152-00001	.114"	0.6"	18.5
M17/176-00002	.129"	0.6"	18.0
RG187 A/U	.100"	0.5"	10.0
RG188 A/U	.100"	0.5"	11.0
RG195 A/U	.141"	0.7"	18.0
RG196 A/U	.067"	0.4"	6.0