

INCH-POUND

MIL-DTL-17/60D  
4 January 2006

SUPERSEDING  
MIL-C-17/60C  
15 March 1977

DETAIL SPECIFICATION SHEET

CABLES, RADIO FREQUENCY, FLEXIBLE, COAXIAL,  
50 OHMS, M17/60-RG142.

This specification is approved for use by all Departments  
and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet and MIL-DTL-17.

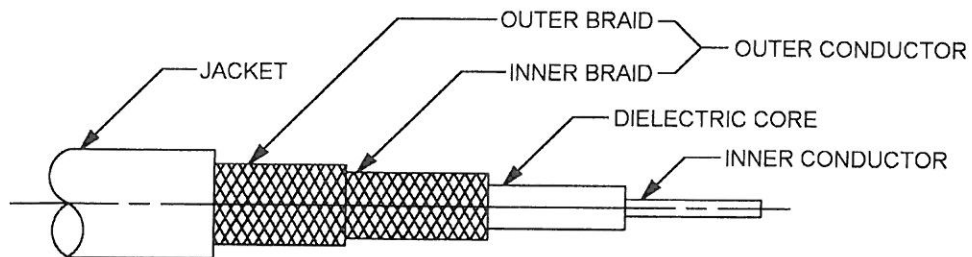


FIGURE 1. Configuration.

MIL-DTL-17/60D

TABLE I. Description.

Components	Construction details
Inner conductor	Solid silver-coated, steel wire Overall diameter: 0.037 inch $\pm$ 0.001
Dielectric core	Type F-1: Solid, extruded PTFE Diameter: 0.116 inch $\pm$ 0.005
Outer conductor	Double braid of AWG #36 silver-coated copper wire Diameter: 0.171 inch maximum
Inner braid	Coverage: 94.8% nominal Carriers: 16 Ends: 7 Picks/inch: 11.5 $\pm$ 10%
Outer braid	Coverage: 93.1% nominal Carriers: 16 Ends: 7 Picks/inch: 14.5 $\pm$ 10%
Jacket	Type IX: <b>PFA</b> Diameter: 0.195 inch $\pm$ 0.005

ENGINEERING INFORMATION

Configuration: See figure 1.

Capacitance: 29.3 pF per foot, nominal.

Continuous working voltage: 1,400 V rms, maximum.

Operating frequency: 12.4 GHz, maximum.

Velocity of propagation: 69.5 percent, nominal.

Power rating: See figure 2.

Operating temperature range: -55° to +200°C.

Weight: 0.043 pound per foot, nominal.

Inner conductor properties:

DC resistance (maximum at 20°C): 1.95 ohms per 100 feet.

Elongation: 1 percent, minimum.

Tensile strength: 110 klb<sub>f</sub>/inch<sup>2</sup>, minimum.

Engineering notes: This cable useful in general purpose, high temperature applications. (See connector series "TNC", "BNC", and "SMA" in accordance with MIL-PRF-39012. NATO preferred type NWR-25.)