

MIL-C-17/28B 15 March 1977 SUPERSEDING MIL-C-17/28A 28 February 1964

## MILITARY SPECIFICATION SHEET

CABLES. RADIO FREQUENCY, FLÉXIBLE, COAXIAL. 50 OHMS. M17/028-RG058

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

The complete requirements for procuring the cable described herein shall consist of this document and the latest issue of Specification MIL-C-17.

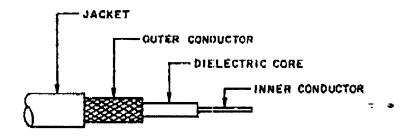


FIGURE 1. Configuration.

TABLE I. Description.

Components	Construction details
Inner conductor	Pineteen strands of tinned copper wire, each strand 0.0072 inch diameter. Overall diameter: 0.0355 inch ±0.0020.
Dielectric core	Type A-1: Solid polyethylene. Diameter: 0.116 inch ±0.004.
Outer conductor	Single braid of AWG #36 tinned copper wire. Diameter: 0.150 inch maximum.   Alternate  Coverage : 92.8% nominal 94.2% nominal
	Carriers : 12 16 Ends : 9 7 Picks/inch : 7.7 ±10% 10.3 ±10%
Jacket	Type Ila: PVC. Diameter: 0.195 inch ±0.004.

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M1L-C-17/28B

## ENGINEERING INFORMATION:

Capacitance: 30.8 pf per foot, nominal.

Continuous working voltage: 1,400 Yrms, maximum.

Operating frequency: 1 GHz, maximum.

Velocity of propagation: 65.9 percent, nominal.

Power rating: See figure 2.

Operating temperature range: -40° to +85°C. Weight: 0.029 pound per foot, nominal.

Inner conductor properties:

DC resistance (maximum at 20°C): 1.480 ohms per 100 feet.

Elongation: 20 +2.5 percent.

This cable useful in general purpose low temperature applications. (See connector series "TNC", "BNC", and "SMA" per MIL-C-39012. Engineering notes:

NATO preferred type NWR-2.)

## REQUIREMENTS:

Dimensions, configuration, and descriptions: See figure 1 and table 1.

Environmental and mechanical:

Visual and mechanical examination:

Eccentricity: 10 percent, maximum.

Adhesion of conductors:

Inner conductor to core: 4 pounds, minimum; 12 pounds, maximum.

Aging stability: +98° +2°C.
Dimensional stability: +85° ±2°C.

Inner conductor from core: 0.062 inch, maximum-

Inner conductor from Jacket: 0.125 inch, maximum.

Contamination: Applicable.

Electrical:

Test frequency: 10 MHz to 1 GHz.

Spark test: 5,000 Vrms. minimum.

Voltage withstanding: 5,000 Vrms, minimum.
Corona extinction voltage: 1,900 Vrms, minimum.
Characteristic impedance: 50 ohms ±2.

Attenuation: See figure 2.

Structural return loss: See figure 3.

Part number: See table II.

Supersession data: See table II.

TABLE II. Cross reference of part number.

Superseded part number Part number or type designation RG-58C/U M17/028-RG058