

MIL-C-27072/62A
24 September 1987
SUPERSEDING
MIL-C-27072/62 (USAF)
30 January 1969

MILITARY SPECIFICATION SHEET

CABLE, SPECIAL PURPOSE, ELECTRICAL, MULTICONDUCTOR,
(2 CONDUCTORS) AND SINGLE SHIELDED
M27072/62JEDD*

This specification is approved for use by all Depart-
ments and Agencies of the Department of Defense.

The requirements for acquiring the cable described herein shall
consist of this specification and the latest issue of MIL-C-27072.

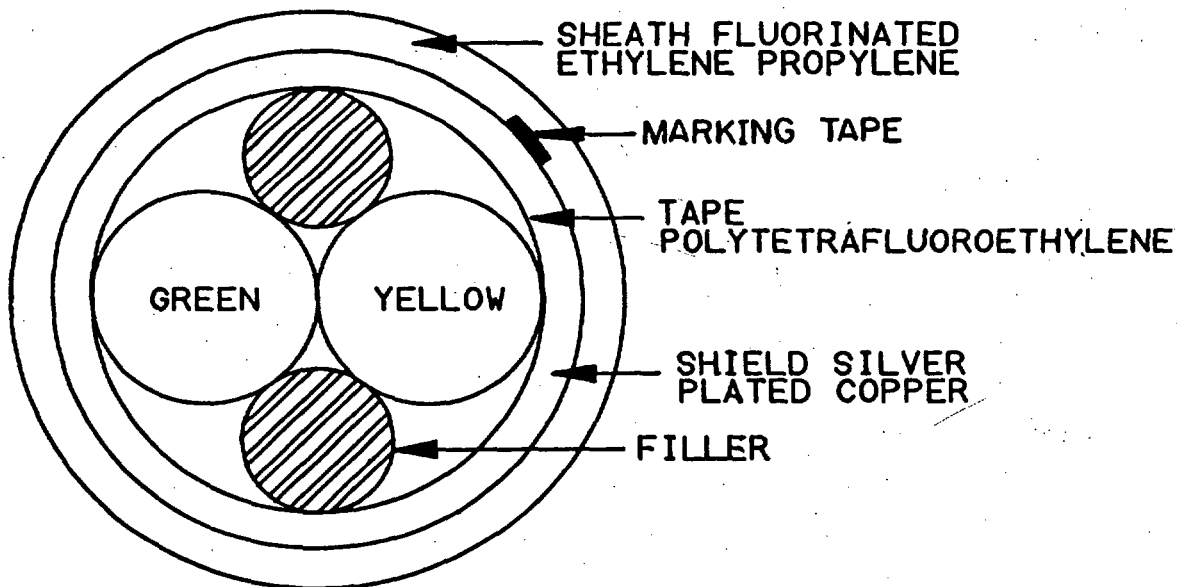


FIGURE 1. Cable configuration.

* Jacket compound is clear with no additional color coding.

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DESIGN DATA:

Design and construction: See figure 1.
Number of conductors: Two.
Conductor size and stranding: See table I.
Wire: In accordance with M16878/5BGE* (see table I).
Jacket undershield: Not applicable.
Shielding: Silver plated copper.
Sheath: Fluorinated ethylene propylene.
Temperature rating: 200°C.

REQUIREMENTS:

Visual and dimensional:

Components:

Basic wire: Silver plated copper.
Dimension: See table I.
Primary insulation:
Material: Polytetrafluoroethylene.
Colors:
Black.
White.
Spark test voltage: 5,000 V rms.
Inspection test voltage: 3,000 V rms.
Impulse dielectric test: 8,000 V peak.
Jacket over insulation: Not applicable.
Wall thickness: Not applicable.
Color: Not applicable.

Filler:

Material: When used, shall be in accordance with MIL-C-27072.
Lay: 2.25 inches maximum.
Tape material: Polytetrafluoroethylene (optional).

Shield:

Material: Silver plated copper.
Gauge: 38 AWG.
Braid angle: 20 to 40 degrees.

Workmanship: In accordance with MIL-C-27072.

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Sheath:

Material: Fluorinated ethylene propylene.

Wall thickness: 0.015 inch nominal.

Tensile strength: See table V of MIL-C-27072.

Elongation: See table V of MIL-C-27072.

Tension set: Not applicable.

Tear strength: Not applicable.

Accelerated aging: Not applicable.

Oil resistance: Not applicable.

Color: See table IV of MIL-C-27072.

Finished cable:

Diameter: See table I.

Conductor resistance: In accordance with MIL-W-16878/5 or MIL-W-16878/22.

Dielectric strength: In accordance with MIL-W-16878/5 or MIL-W-27072/22.

Cold bend: Mandrel size in accordance with table XIII of MIL-C-27072.

Ozone: Mandrel size in accordance with table XIV of MIL-C-27072.

Heat stability: Not applicable.

TABLE I. Construction data.

Part number M27072/62	Conductor			Nominal diameter (in.)	Finished cable diameter (in.) ±10%	Basic wire M16878/5 M16878/22
	Wire size (AWG)	Number of strands	Strand size (AWG)			
JEDD*	20	19	32	.068	.200	BGE***

Asterisks (*) shall be replaced by the appropriate color designator.

Revision letters are not used to denote changes due to the extensiveness of the changes.

Custodians:

Army - CR

Navy - SH

Air Force - 85

Review activities:

Air Force - 99

DLA - ES, IS

Preparing activity:

Air Force - 85

Agent:

DLA - ES

(Project 6145-0908-13)