

MIL-C-27072/26A
24 September 1987

SUPERSEDING
MIL-C-27072/26(USAF)
16 July 1965

MILITARY SPECIFICATION SHEET

CABLE, SPECIAL PURPOSE, ELECTRICAL, MULTICONDUCTOR,
(2 CONDUCTORS) AND SINGLE SHIELDED
M27072/26JACA*

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.

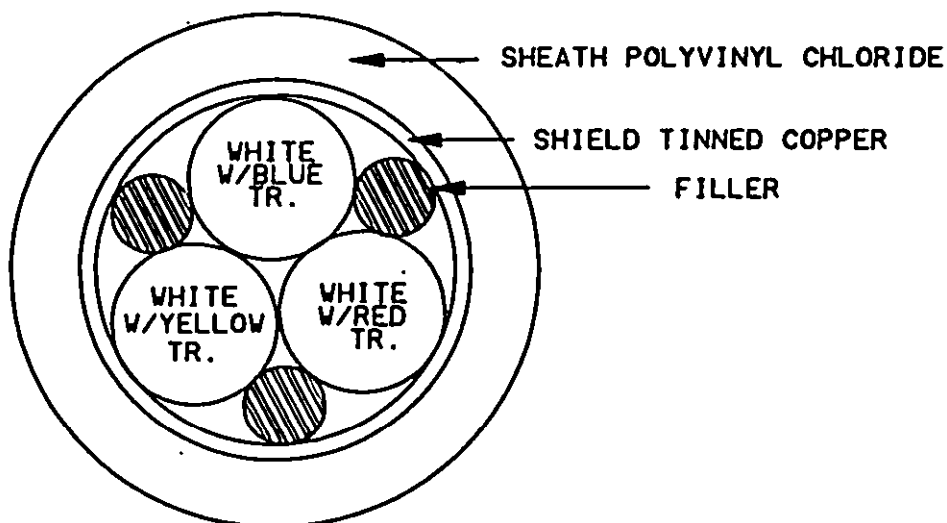


FIGURE 1. Cable configuration.

* The complete part number requires a color code designator (see table 1).

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DESIGN DATA:

Design and construction: See figure 1.
Number of conductors: Three.
Conductor size and stranding: See table I.
Wire: M16878/17BGE*** (see table I).
Jacket undershield: Not applicable.
Shielding: Tinned copper.
Sheath: Polyvinyl chloride.
Temperature rating: 105°C.

REQUIREMENTS:

Visual and dimensional:

Components:

Basic wire: Tin coated.

Dimensions: See table I.

Primary insulation:

Material: Polyvinyl chloride.

Wall thickness: .008 ±.003 inch.

Colors:

White with blue tracer.

White with red tracer.

White with yellow tracer.

Spark test voltage: 3,400 V rms.

Inspection test voltage: 2,000 V rms.

Impulse dielectric test: 8,000 V peak.

Jacket over insulation: Polyamide.

Color: Natural.

Filler:

Material: In accordance with MIL-C-27072.

Lay: 1.3 inches maximum.

Tape material: Not applicable.

Shield:

Material: Tinned copper.

Gauge: 36 AWG.

Braid angle: 20 to 40 degrees.

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Workmanship: In accordance with MIL-C-27072.

Sheath:

Material: Polyvinyl chloride.

Wall thickness: .030 inch nominal.

Tensile strength: In accordance with table V of MIL-C-27072.

Elongation: In accordance with table V of MIL-C-27072.

Tension set: Not applicable.

Tear strength: Not applicable.

Accelerated aging: In accordance with table V of MIL-C-27072.

Oil resistance: Not applicable.

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

Finished cable:

Weight: For future consideration.

Diameter: See table I.

Conductor resistance: In accordance with MIL-W-16878/17 or MIL-W-16878/21.

Dielectric strength: In accordance with MIL-W-16878/17 or MIL-W-16878/21.

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.

Marking durability: In accordance with MIL-C-27072.

Heat stability: Not applicable.

TABLE I. Construction data.

Part number M27072/26	Conductor				Finished cable diameter (in.) ±10%	Basic wire M16878/17 M16878/21
	Wire size (AWG)	Number of strands	Strand size (AWG)	Nominal diameter (in.)		
JACA*	20	19	32	.063	.217	BGE***

Asterisks (*) shall be replaced with 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 6145-0909-8)