

MIL-C-27072/88
24 September 1987

SUPERSEDING
MIL-C-27072/8A(USAF)
21 June 1965

MILITARY SPECIFICATION SHEET
CABLE, SPECIAL PURPOSE, ELECTRICAL,
MULTICONDUCTOR, (3 CONDUCTORS)
M27072/8KBCK*

This specification is approved by all Departments 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.

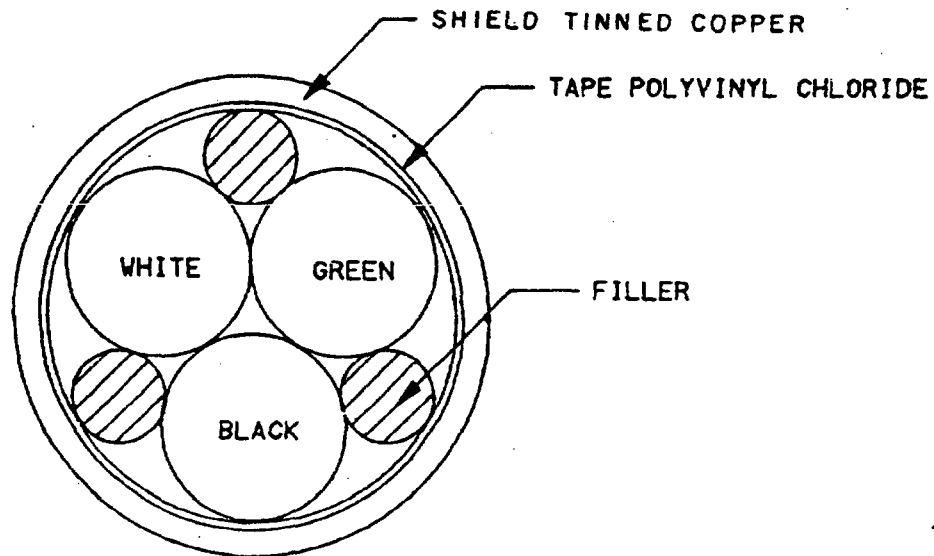


FIGURE 1. Cable configuration.

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

DESIGN DATA:

Design and construction: See figure 1.

Number of conductors: Three.

Conductor size/stranding: See table I.

Wire: M16878/18B68*** (see table I).

Jacket undershield: Not applicable.

Shielding: Tinned copper.

Sheath: Not applicable.

Temperature rating: 105°C.

REQUIREMENTS:

Visual and dimensional:

Components:

Basic wire: Tinned copper.

Dimension: See table I.

Primary insulation:

Material: Polyvinyl chloride.

Wall thickness: .017 ±.002 inch (0.43 ±0.05 mm).

Colors:

Black.

Green.

White.

Spark test voltage: 5,000 V rms.

Inspection test voltage: 3,000 V rms.

Impulse dielectric test: 10,000 V peak.

Jacket over insulation: Polyamide.

Color: Natural.

Filler:

Material: In accordance with MIL-C-27072.

Lay: 1.4 inches (35.6 mm).

Tape material: Not applicable.

Shield:

Material: Tinned copper.

Gauge: 38 AWG.

Braid angle: 20 to 40 degrees.

MIL-C-27072/8B

Workmanship: In accordance with MIL-C-27072.

Sheath: Not applicable:

Finished cable:

Weight: For future consideration.

Diameter: See table I.

Conductor resistance: In accordance with MIL-W-16878/18.

Dielectric strength: In accordance with MIL-W-16878/18.

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

TABLE I. Construction data.

Part number M27072/8	Conductor			Nominal diameter (in.)	Finished cable diameter (in.) ±10%	Basic wire M16878/18
	Wire size (AWG)	Number of strands	Strand size (AWG)			
K8CK*	20	7	28	.078	.210	BGB***

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 6145-0909-2)