

MIL-C-27072/64A  
24 September 1987  
~~SUPERSEDING~~  
MIL-C-27072/64 (USAF)  
3 February 1969

MILITARY SPECIFICATION SHEET

CABLE, SPECIAL PURPOSE, ELECTRICAL, MULTICONDUCTOR,  
(8 CONDUCTORS) M27072/64DBAA\*

This specification is approved for use 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.

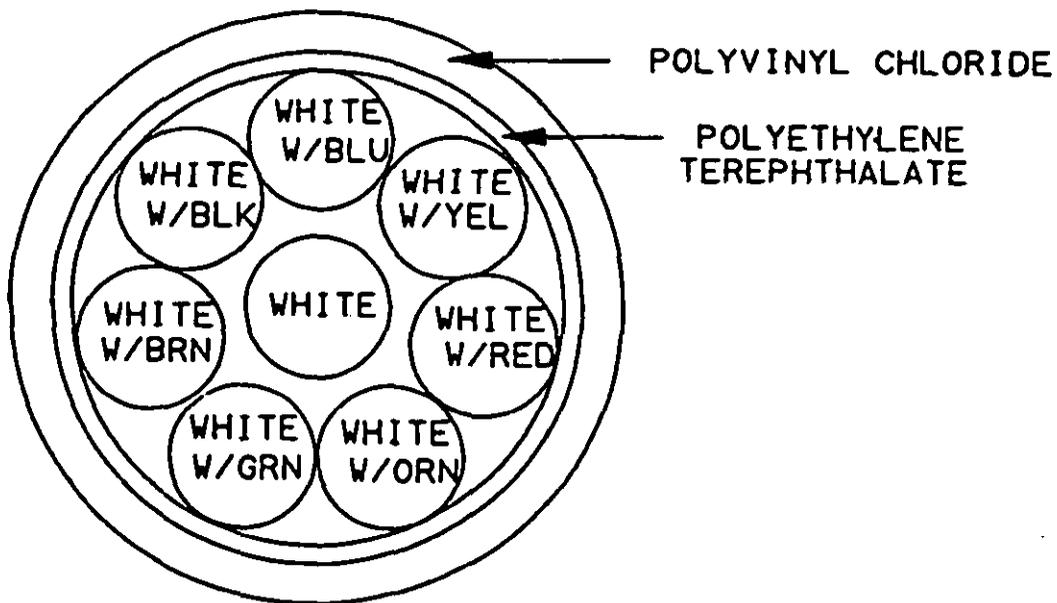


FIGURE 1. Cable configuration.

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

MIL-C-27072/64A

DESIGN DATA:

Design and construction: See figure 1.  
Number of conductors: Eight.  
Conductor size and stranding: See table I.  
Wire: In accordance with M16878/18BLE\* (see table I).  
Jacket undershield: Not applicable.  
Shielding: Not applicable.  
Sheath: Polyvinyl chloride.  
Temperature rating: 105°C.

REQUIREMENTS:

Visual and dimensional:

Components:

Basic wire: Tinned copper.

Dimension: See table I.

Primary insulation:

Material: Polyvinyl chloride.

Wall thickness: .043 inch  $\pm$ .003.

Colors:

White.

White with blue tracer.

White with black tracer.

White with brown tracer.

White with green tracer.

White with orange tracer.

White with red tracer.

White with yellow tracer.

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.

Wall thickness: .004 inch  $\pm$ .001.

Color: Natural.

Filler: Applicable.

Material: If used, shall be in accordance with MIL-C-27072.

## MIL-C-27072/64A

Lay: 6.50 inches maximum.

Tape material: Polyethylene terephthalate.

Shield:

Material: Not applicable.

Gauge: Not applicable.

Braid angle: Not applicable.

Workmanship: In accordance with MIL-C-27072.

Sheath:

Material: Polyvinyl chloride.

Wall thickness: .065 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: See table V of MIL-C-27072.

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-16878/18.

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

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 M27072/64	Conductor			Nominal diameter (in.)	Finished cable diameter (in.) ±10%	Basic wire M16878/18
	Wire size (AWG)	Number of strands	Strand size (AWG)			
DBAA*	12	19	25	.134	.690	BLE***

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

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

MIL-C-27072/64A

Custodians:

Army - CK  
Navy - SH  
Air Force - 85

Review activities:

Air Force - 99  
DLA - ES, IS

Preparing activity:  
Air Force - 85

Agent:  
DLA - ES

(Project 6145-0909-29)