

INCH-POUND

MIL-DTL-27072/70A  
8 December 2000  
SUPERSEDING  
MIL-C-27072/70  
24 June 1969

DETAIL SPECIFICATION SHEET

CABLE, SPECIAL PURPOSE, ELECTRICAL, SHIELDED;  
TYPE I, STYLE 1, 4 CONDUCTORS,  
M27072/70MACA\*

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

The requirements for acquiring the product described herein shall consist of this specification sheet and MIL-DTL-27072C.

REQUIREMENTS:

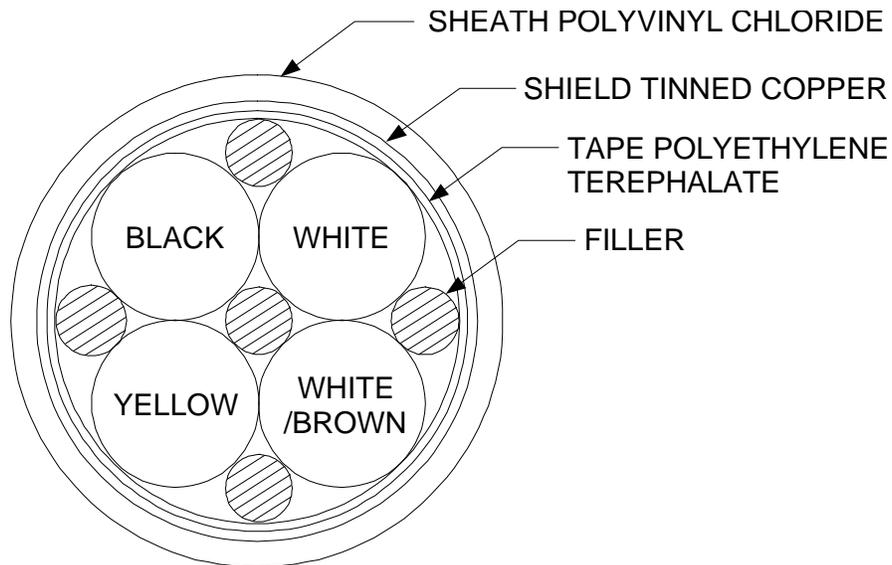


FIGURE 1. Cable configuration.

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

MIL-DTL-27072/70A

Design and construction: See figure 1  
 Number of conductors: 4  
 Temperature rating: 105 °C

Components:

Basic wire: MIL-DTL-16878/17BFB\* (See table I.)  
 Conductor: Tinned copper  
 Primary insulation: Polyvinyl chloride  
 Colors: Black  
 White  
 Yellow  
 White/brown

Jacket over insulation: Polyamide  
 Color: Natural (clear)

Filler:  
 Material: In accordance with MIL-DTL-27072  
 Lay: 1.75 inches

Cabling: Not applicable

Binder tape material: Polyethylene terephthalate

Shield:  
 Material: Tinned copper  
 Gauge: 36 AWG  
 Braid angle: 20 to 40 degrees

Jacket undershield: Not applicable

Sheath:  
 Material: Polyvinyl chloride  
 Wall thickness: .065 inch nominal  
 Tensile strength: In accordance with table V of MIL-DTL-27072  
 Ultimate elongation: In accordance with table V of MIL-DTL-27072  
 Accelerated aging: In accordance with table V of MIL-DTL-27072  
 Color: See table IV of MIL-DTL-27072

Finished cable: See table I  
 Cold bend: Mandrel size in accordance with table XIII of MIL-DTL-27072  
 Dielectric withstanding voltage: 2,000 V rms  
 Conductor resistance: In accordance with basic wire specification

Table I. Construction data.

PIN 27072/70	Basic wire except color M16878/17BFB*** (reference)				Finished cable diameter (in.) ±10%
	Wire size (AWG)	Number of strands	Strand size	Nominal diameter (inch)	
MACA	22	7	30	.056	.312

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

CHANGES FROM PREVIOUS ISSUE: Marginal notations are not used in this revision to identify changes with respect to the previous issues due to the extensiveness of the changes.

CONCLUDING MATERIAL

Custodians:  
Army - CR  
Navy - SH  
Air Force - 11  
DLA - CC

Preparing activity:  
DLA - CC  
(Project 6145-2262-017)