

INCH-POUND

MIL-DTL-27072/83B
8 December 2000
SUPERSEDING
MIL-C-27072/83A
24 September 1987

DETAIL SPECIFICATION SHEET

CABLE, SPECIAL PURPOSE, ELECTRICAL, MULTICONDUCTOR
(7 CONDUCTORS) AND SINGLE SHIELDED,
M27072/83MACA*

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:

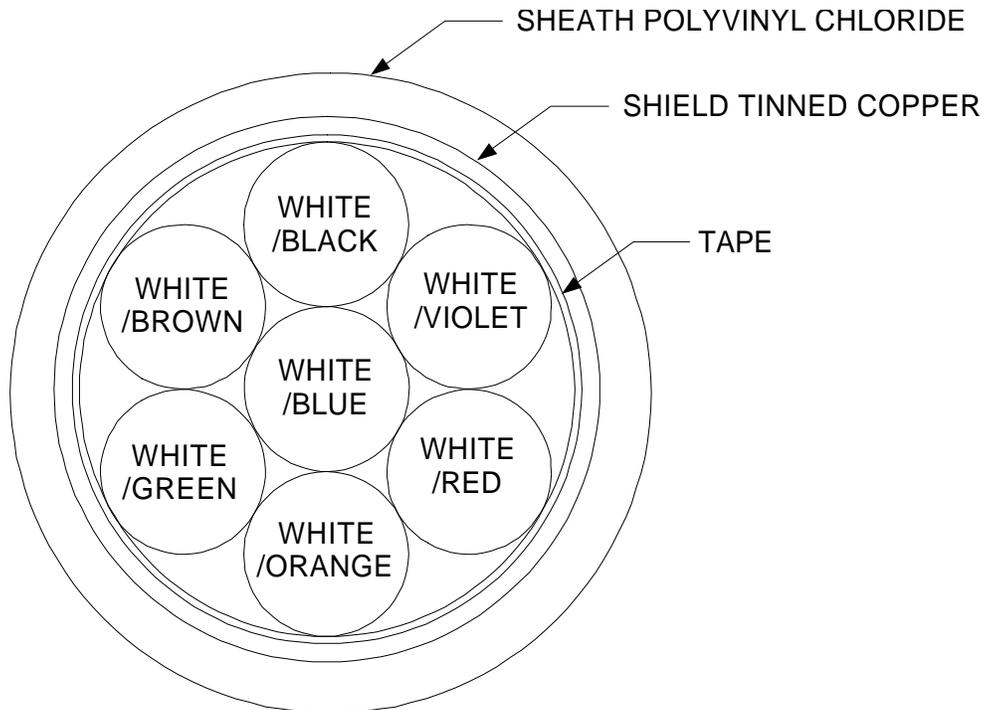


FIGURE 1. Cable configuration.

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

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Design and construction: See figure 1.
 Number of conductors: 7
 Temperature rating: 105 °C

Components:

Basic wire: M16878/17BFB*** (See table I.)

Conductor: Tinned copper
 Primary insulation: Polyvinyl chloride
 Colors: White with blue tracer
 White with brown tracer
 White with green tracer
 White with orange tracer
 White with red tracer
 White with violet tracer
 White with black
 Jacket over insulation: Polyamide
 Color: Natural

Filler: Not applicable

Cabling: Not applicable

Binder tape material: In accordance with MIL-DTL-27072

Shield:

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

Jacket undershield: Not applicable

Sheath:

Material: Polyvinyl chloride
 Wall thickness: .025 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 27072/83	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	.247

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 6145-2262-020)