

INCH-POUND

MIL-DTL-27072/1C  
8 December 2000  
SUPERSEDING  
MIL-C-27072/1B  
24 September 1987

DETAIL SPECIFICATION SHEET

CABLE, SPECIAL PURPOSE, ELECTRICAL, MULTICONDUCTOR  
(3 CONDUCTORS),  
M27072/1FAAA\*

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:

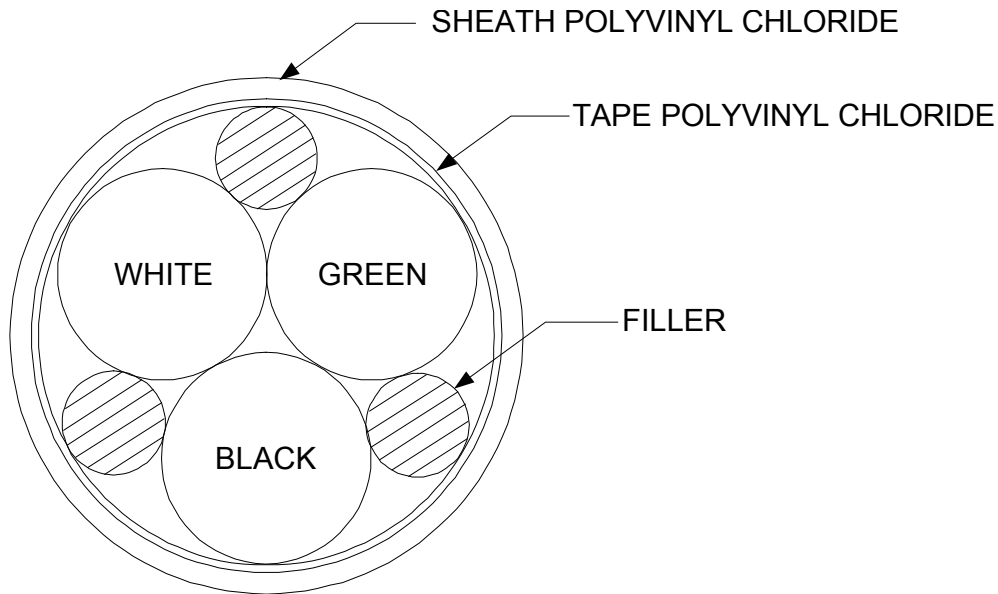


FIGURE 1. Cable configuration.

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

## MIL-DTL-27072/1C

Design and construction:	See figure 1
Number of conductors:	3
Temperature rating:	105 °C
Components:	
Basic wire:	M16878/17BJE*** (See table I.)
Conductor:	Tinned copper
Primary insulation:	Polyvinyl chloride
Colors:	Black Green White
Jacket over insulation:	Polyamide
Color:	Natural
Filler:	
Material:	In accordance with MIL-DTL-27072
Lay:	3.0 inches
Cabling:	Not applicable
Binder tape material:	Polyvinyl chloride
Shield:	Not applicable
Jacket undershield:	Not applicable
Sheath:	
Material:	Polyvinyl chloride
Wall thickness:	.035 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 27072/1	Basic wire except color M16878/17 BJE*** (reference)				Finished cable diameter (in.) ±10%
	Wire size (AWG)	Number of strands	Strand size	Nominal diameter (inch)	
FAAA*	16	19	29	.086	.266

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

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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 6145-2262-001)