

INCH-POUND
MIL-DTL-27072/1C
w/AMENDMENT 1
20 May 2016
SUPERSEDING
MIL-DTL-27072/1C
8 December 2000

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-27072.

REQUIREMENTS:

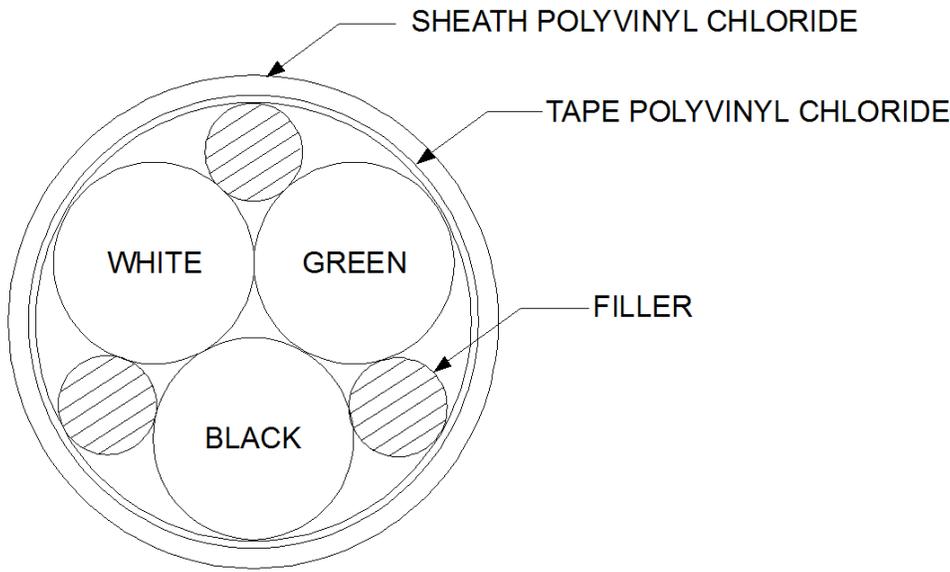


FIGURE 1. Cable configuration.

*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:	3
Temperature rating:	105 °C
Components:	
Basic wire:	NEMA HP 7-BN-BJE* (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 NEMA HP 7-BN-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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Amendment notations. The margins of this specification are marked with vertical lines to indicate modifications generated by this amendment. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations.

Referenced documents: This document references MIL-DTL-27072.

CONCLUDING MATERIAL

Custodians:

Army - CR
Navy - SH
Air Force - 85
DLA – CC

Preparing activity:
DLA - CC

(Project 6145-2016-014)

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of this information above using the ASSIST Online database at <https://assist.dla.mil>.