

INCH-POUND
MIL-DTL-27072/9D
w/AMENDMENT 1
20 May 2016
SUPERSEDING
MIL-DTL-27072/9D
12 March 2012

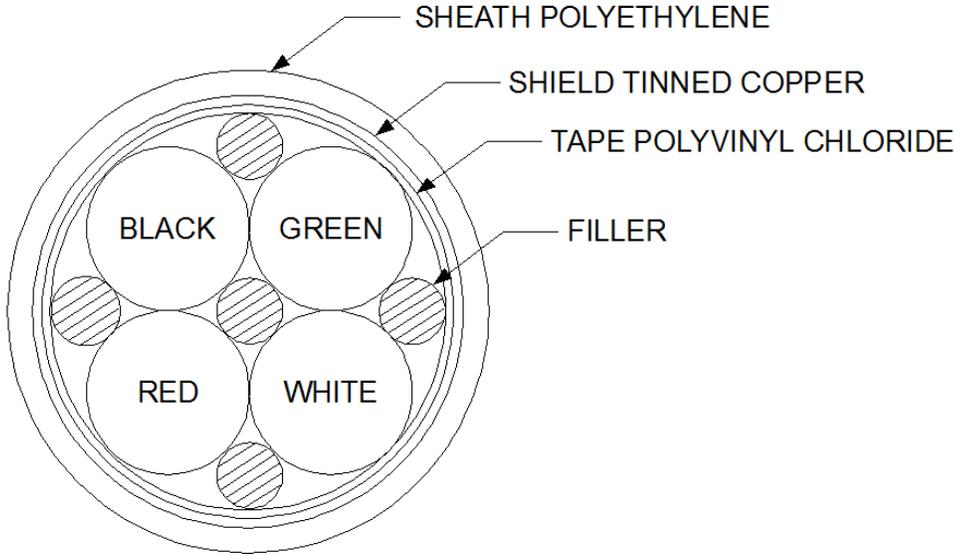
DETAIL SPECIFICATION SHEET

CABLE, SPECIAL PURPOSE, ELECTRICAL, MULTICONDUCTOR
(4 CONDUCTORS) AND SINGLE SHIELDED,
M27072/9HBKB*

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:



NOTE: The complete Part or Identifying Number (PIN) requires a color code designator (see table I).

FIGURE 1. Cable configuration.

MIL-DTL-27072/9D
w/AMENDMENT 1

Design and construction:	See figure 1
Number of conductors:	4
Temperature rating:	105 °C
Components:	
Basic wire:	NEMA HP 7-CN-BHB* (see table I)
Conductor:	Tinned copper
Primary insulation:	Polyvinyl chloride
Colors:	Black Green White Red
Jacket over insulation:	Polyamide
Color:	Natural
Filler:	
Material:	In accordance with MIL-DTL-27072
Lay:	2.0 inches
Cabling:	Not applicable
Binder tape material:	Polyvinyl chloride
Shield:	
Material:	Tinned copper
Gauge:	In accordance with MIL-DTL-27072
Braid angle:	20 to 40 degrees
Jacket undershield:	Not applicable
Sheath:	
Material:	Polyethylene
Wall thickness:	.040 inch nominal
Tensile strength:	In accordance with MIL-DTL-27072
Ultimate elongation:	In accordance with MIL-DTL-27072
Accelerated aging:	Not applicable
Color:	See MIL-DTL-27072
Finished cable:	See table I
Cold bend:	Mandrel size in accordance with MIL-DTL-27072
Dielectric withstanding voltage:	3,000 V rms
Conductor resistance	In accordance with basic wire specification

MIL-DTL-27072/9D
w/AMENDMENT 1

TABLE I. Construction data.

PIN 27072/9	Basic wire except color NEMA HP 7-CN-BHB* ^{1/2/} (reference)				Finished cable diameter inch (mm) ±10%
	Wire size (AWG)	Number of strands	Strand size	Nominal diameter inch(mm)	
HBKB*	18	7	26	.090(2.29)	.334(8.48)

^{1/} Asterisks (*) shall be replaced by the appropriate color designator.

^{2/} Dimensions are in inches. Metric equivalents are given for information only.

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 document. This document references MIL-DTL-27072.

CONCLUDING MATERIAL

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

Preparing activity:
DLA - CC

(Project 6145-2016-015)

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>.