

INCH-POUND

MIL-DTL-27072/7C
8 December 2000
SUPERSEDING
MIL-C-27072/7B
24 September 1987

DETAIL SPECIFICATION SHEET

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

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:

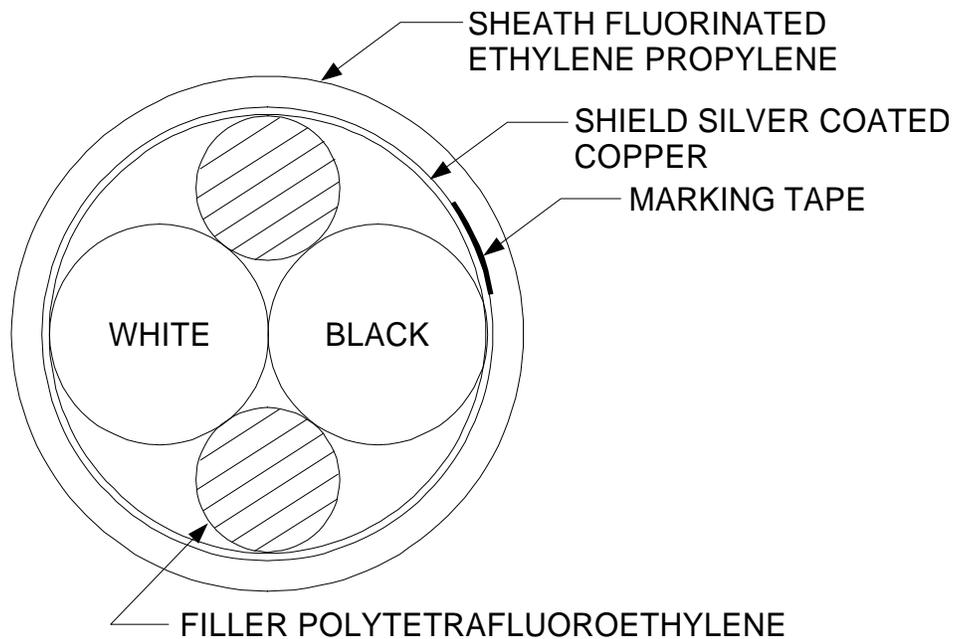


FIGURE 1. Cable configuration.

*Sheath compound is clear with no additional color coding.

MIL-DTL-27072/7C

Design and construction: See figure 1
 Number of conductors: 2
 Temperature rating: 200 °C

Components:

Basic wire: NEMA HP3-EXBFB* (formerly M16878/4BFB***)
 or NEMA HP3-EWBFB* (formerly M16878/21BFB***) (See table I.)

Conductor: Silver-coated copper
 Primary insulation: Polytetrafluoroethylene
 Colors: Black
 White

Jacket over insulation: Not applicable

Filler:

Material: Polytetrafluoroethylene
 Lay: 3.0 inches maximum

Cabling: Not applicable

Binder tape material: Not applicable

Shield:

Material: Silver coated copper
 Gauge: 38 AWG
 Braid angle: 20 to 40 degrees

Jacket undershield: Not applicable

Sheath:

Material: Fluorinated ethylene propylene
 Wall thickness: .010 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: Not applicable
 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 27072/7	Basic wire except color NEMA HP3-EXBFB* or NEMA HP3-EWBFB* (reference)				Finished cable diameter (in.) ±10%
	Wire size (AWG)	Number of strands	Strand size	Nominal diameter (inch)	
MDDD*	22	7	30	.050	.140

Asterisk (*) 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 6145-2262-002)