MIL-C-27072/49A
24 September 1987
SUPERSEOING
MIL-C-27072/49(USAF)
12 October 1966

## MILITARY SPECIFICATION SHEET

CABLE, SPECIAL PURPOSE, ELECTRICAL, MULTICONDUCTOR.
(2 CONDUCTORS) AND SINGLE SHIELDED
M27072/49HBCK\*

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the cable described herein shall consist of this specification and the latest issue of MIL-C-27072.

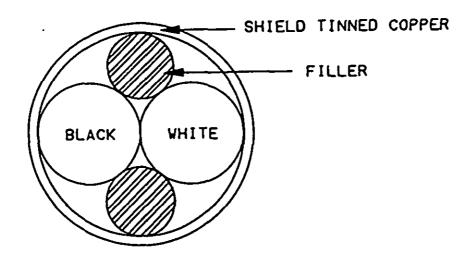


FIGURE 1. Cable configuration.

<sup>\*</sup> The complete part number requires a color code designator (see table 1).

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DESIGN DATA:
  Design and construction: See figure 1.
  Number of conductors: Two.
  Conductor size/stranding: See table 1.
 Wire: M16878/188HB* (see table I).
  Jacket undershield: Not applicable.
  Shielding: Tinned copper.
  Sheath: Not applicable.
 Temperature rating: 105°C.
REQUIREMENTS:
  Visual and dimensional:
   Components:
     Basic wire: Tinned coated copper.
       Dimension: See table I.
       Primary insulation:
         Material: Polyvinyl chloride.
         Wall thickness: .016 inch *.002.
         Colors:
           White.
           Black.
       Spark test voltage: 5,000 Y rms.
       Inspection test voltage: 3,000 Y rms.
        impulse dielectric test: 10,000 V peak.
     Jacket over insulation: Polyamide.
       Color: Natural.
     Filler: Required.
       Material: In accordance with MiL-C-27072.
       Lay: 1.5 inch maximum.
      Tape material: Not applicable.
     Shield:
       Material: Tinned copper.
       Gauge 36 AVG.
        Braid angle: 20 to 40 degrees.
   Workmanship: In accordance with MIL-C-27072.
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## MIL-C-27072/49A

Finished cable:

Weight: For future consideration.

Diameter: See table 1.

Conductor resistance: In accordance with MIL-W-16878/18.

Dielectric strength: In accordance with MIL-W-16878/18.

Cold bend: Mandrel size in accordance with table XIII of MIL-C-27072.

Ozone: Mandrel size in accordance with table XIV of MIL-C-27072.

Marking durability: In accordance with MIL-C-27072.

Heat stability: Not applicable.

TABLE I. Construction data.

Part number   M27072/49		Number of strands	ductor Strand   size (AWG)	Nominal diameter (in.)	Finished	Basic wire M16878/18
HBCK+	1 18	1 1 7	26	.09	.199	848***

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

Revision letters are not used to denote changes due to the extensiveness of the changes.

Custodians: Army - CR Navy - SH

Air Force - 85

Review activities: Air Force - 99 DLA - ES, IS Preparing activity: Air Force - 85

Agent: DLA - ES

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