

INCH-POUND

MIL-DTL-27072/29B
 8 December 2000
 SUPERSEDING
 MIL-C-27072/29A
 24 September 1987

DETAIL SPECIFICATION SHEET

CABLE, SPECIAL PURPOSE, ELECTRICAL, MULTICONDUCTOR,
 (12 CONDUCTORS) AND SINGLE SHIELDED,
 M27072/29MACA*

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:

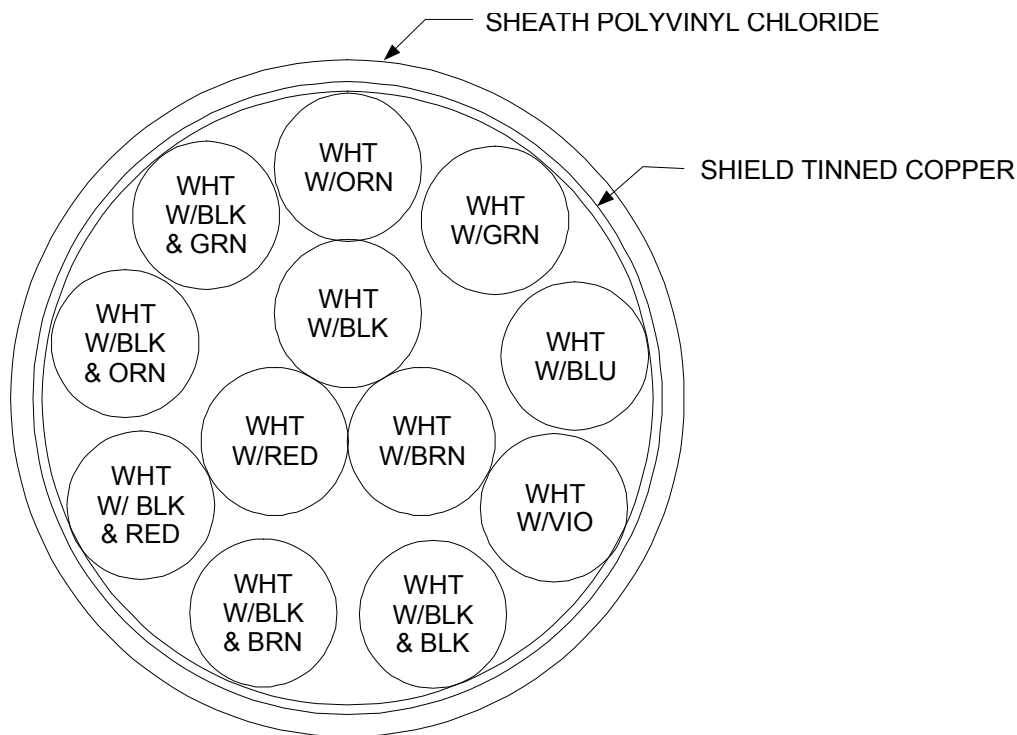


FIGURE 1. Cable configuration.

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

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Design and construction:	See figure 1
Number of conductors:	12
Temperature rating:	105 °C
Components:	
Basic wire:	M16878/17BFB* (See table I.)
Conductor:	Tinned copper
Primary insulation:	Polyvinyl chloride
Colors:	White with black tracer White with brown tracer White with red tracer White with orange tracer White with green tracer White with blue tracer White with violet tracer White with two black tracers White with black and brown tracers White with black and red tracers White with black and orange tracers White with black and green tracers
Jacket over Insulation:	Polyamide
Color:	Natural
Filler:	Not applicable
Cabling:	
Number of conductors:	Twelve
Maximum pitch or lay:	3.0 inches
Binder tape material:	Not applicable
Shield:	
Material:	Tinned copper
Gauge:	36 AWG
Braid angle:	20 to 40 degrees
Jacket undershield:	Not applicable
Sheath:	
Material:	Polyvinyl chloride
Wall thickness:	.030 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

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Table I. Construction data.

PIN 27072/29	Basic wire except color M16878/17BFB*** (reference)				Finished cable diameter (in.) $\pm 10\%$
	Wire size (AWG)	Number of strands	Strand size	Nominal diameter (inch)	
MACA*	22	7	30	.056	.310

Asterisks (*) 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 6145-2262-008)