

INCH-POUND

MIL-C-27072B  
AMENDMENT 1  
10 May 1994

## MILITARY SPECIFICATION SHEET

CABLE, POWER, ELECTRICAL, AND CABLE, SPECIAL PURPOSE,  
ELECTRICAL, MULTICONDUCTOR AND SINGLE SHIELDED  
GENERAL SPECIFICATION FOR

This amendment forms a part of MIL-C-27072B, dated 24 September 1987, and is approved for use by all Departments and Agencies of the Department of Defense.

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3.2.2, delete and substitute:

"3.2.2 Sheath color and stripe band. Cable stripes or bands shall be in accordance with MIL-STD-686. The sheath, stripe and band designator shall be in accordance with table IV. Cable sheath material shall be of a contrasting color to the stripe or band."

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Table IV, delete and substitute:

" TABLE IV. Sheath color or stripe color.

Color designator	Sheath color	First stripe or band	Color designator	Sheath color	First stripe or band
0	Black		G	Black	Violet
1	Brown		H	Black	Gray
2	Red		J	Brown	Red
3	Orange		K	Brown	Orange
4	Yellow		L	Brown	Yellow
5	Green		M	Brown	Green
6	Blue		N	Brown	Blue
7	Violet		P	Brown	Violet
8	Gray		R	Brown	Gray
9	White		S	Red	Orange
A	Black	Brown	T	Red	Yellow
B	Black	Red	U	Red	Green
C	Black	Orange	W	Red	Blue
D	Black	Yellow	Y	Red	Violet
E	Black	Green	X	unstriped <sup>1/</sup>	
F	Black	Blue	Z	Clear <sup>2/</sup>	

<sup>1/</sup> Inactive for new design. For new design use color designator 0 through 9 for unstriped solid colored sheath.

<sup>2/</sup> Applicable only to cable sheaths made of fluorinated ethylene propylene.

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Paragraph 3.2.8.C, add the following after Polychloroprene:

"in accordance with MIL-C-13777."

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Table V, delete and substitute:

TABLE V. Sheath physical properties.1/

Inspection	Test Paragraph	Sheath material designator (see 1.2.1.1)							
		A 2/	B	C	D	E	F	G	H
Original tensile strength (PSI) (min)	4.5.2.1	2100-2700	1800	1800	2200	3000	7000	In accordance with MIL-Y-1140	3500
Original ultimate elongating percent (min)	4.5.2.2	250-350	250	300	200	150	150	In accordance with MIL-Y-1140	550
Tear strength (min)	4.5.2.4	---	---	20	---	---	---	---	---
Tension set (max)	4.5.2.3	---	---	3/8	---	---	---	---	---
Accelerated aging	4.5.2.5	X	---	X	---	---	---	---	X
Tensile strength	4.5.2.1	75% of original	---	1600 (1bf/in <sup>2</sup> )	---	---	---	---	50%
Ultimate elongation	4.5.2.2	75% of original	---	2-7 (inches) (min)	---	---	---	---	50%
Oil resistance	4.5.2.6	---	---	X	---	---	---	---	---
Percent change from original tensile strength	4.5.2.1	---	---	60	---	---	---	---	---
Percent change from original ultimate elongation (inches) (min)	4.5.2.2	---	---	60	---	---	---	---	---

1/ "X" denotes applicable testing.

2/ PVC shall not be used in aerospace applications.

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3.4.5.1, delete and substitute:

"3.4.5.1 Sheaths of materials designated A, B, D, E, F, G, and H. Sheaths of materials designated A, B, D, E, F, G, and H, shall be well centered over the cable core. Sheaths of materials designated A, B, and D, shall be extruded directly over the cabled components or overall shield or binder tape, if present. Sheath material designated E shall be either extruded or tape-wrapped, directly over the cabled components or overall shield or binder tape, if present."

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4.5.2.5, add the following after first sentence:

"For sheath material H, the accelerated aging shall be conducted in accordance with method 4021 of FED-STD-228.

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6.2.1d, delete and substitute:

"d. Required nontechnical constructional changes such as the addition of binder tapes, or other minor deviations that do not affect the performance requirements."

CONCLUDING MATERIAL

Custodians:  
Army - CR  
Navy - SH  
Air Force - 85

Review activities:  
DLA- ES

Preparing activity:  
Air force - 85

Agent:  
DLA - ES

(Project 6145-2069)