



AEROSPACE MATERIAL SPECIFICATION

AMS-DTL-23053™/7

REV. B

Issued 1999-07
Revised 2012-08
Cancelled 2018-12

Superseded by AS23053/7A

Insulation Sleeving, Electrical, Heat Shrinkable,
Polyethylene Terephthalate, Non-Crosslinked

FSC 5970

RATIONALE

Requirements of AMS-DTL-23053/7 have been replaced in entirety by AS23053/7.

CANCELLATION NOTICE

This Technical Report has been declared "CANCELLED" as of December 2018 and has been superseded by AS23053/7. By this action, this document will remain listed in the respective index, if applicable. Cancelled Technical Reports are available from SAE.

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The requirements for acquiring the sleeving described herein shall consist of this specification sheet and the issue of the following specification listed in that issue of the Department of Defense Index of Specifications and Standards (DODISS) specified in the solicitation: MIL-DTL-23053

REQUIREMENTS

Polymer type: The base polymer used in formulating this sleeving shall be polyethylene terephthalate.

Continuous operating temperature range: -76 °F (-60 °C) to +275 °F (+135 °C).

Classification: The heat shrinkable sleeving shall be furnished in the following classes, as specified (See 6.4a and 6.8):

Class 1 - Single longitudinal seam, thermally bonded

Class 2 - Spirally wound, resin bonded

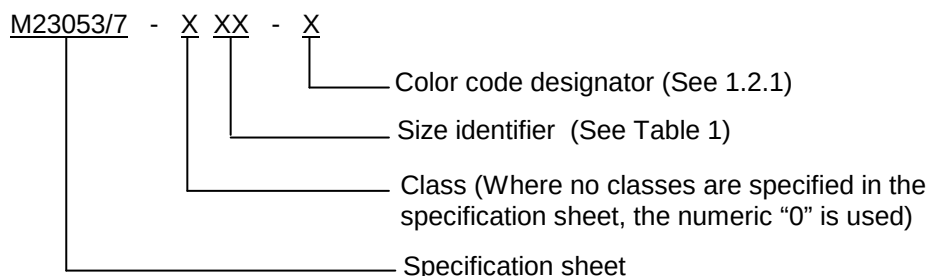
Color: The heat shrinkable sleeving shall be furnished in clear, as manufactured. The acquiring activity may specify colors for Class 2 sleeving only (See 6.2b). Colors shall conform to Class I of MIL-STD-104. (See 1.2.1 and 3.4.2.1)

Longitudinal change:

Class 1: 30 percent maximum

Class 2: 35 percent maximum

Military part number: The military part number shall consist of the basic number of this specification sheet and dash numbers as follows:



Example: Class 1, 0.125 inches (3.2 mm), as supplied ID sleeving shall be identified as M23053/7-103-C.

TABLE 1 - CONSTRUCTION DETAILS, INCHES (MM) 1/

Military part number <u>1/</u>	As supplied ID minimum	After unrestricted shrinkage	
		ID maximum	Wall Thickness <u>2/</u>
<u>Class 1</u>			
M23053/7-101-C		No longer	Manufactured
M23053/7-102-C		No longer	Manufactured
M23053/7-103-C	0.125 (3.18)	0.088 (2.24)	0.0027 ± 0.0004(0.0687 ± 0.0102)
M23053/7-104-C	0.187 (4.75)	0.131 (3.33)	0.0027 ± 0.0004(0.0687 ± 0.0102)
M23053/7-105-C	0.250 (6.35)	0.175 (4.45)	0.0027 ± 0.0004(0.0687 ± 0.0102)
M23053/7-106-C	0.375 (9.53)	0.263 (6.68)	0.0027 ± 0.0004(0.0687 ± 0.0102)
M23053/7-107-C	0.500 (12.70)	0.350 (8.89)	0.0027 ± 0.0004(0.0687 ± 0.0102)
M23053/7-108-C	0.750 (19.05)	0.525 (13.33)	0.0027 ± 0.0004(0.0687 ± 0.0102)
M23053/7-109-C	1.000 (25.40)	0.700 (17.78)	0.0027 ± 0.0004(0.0687 ± 0.0102)
M23053/7-110-C	1.375 (34.93)	0.963 (24.46)	0.0027 ± 0.0004(0.0687 ± 0.0102)
M23053/7-111-C	1.500 (38.10)	1.050 (26.67)	0.0027 ± 0.0004(0.0687 ± 0.0102)
M23053/7-112-C	2.000 (50.80)	1.400 (35.56)	0.0027 ± 0.0004(0.0687 ± 0.0102)
M23053/7-113-C	2.500 (63.50)	1.750 (44.45)	0.0027 ± 0.0004(0.0687 ± 0.0102)
M23053/7-114-C	3.000 (76.20)	2.100 (53.34)	0.0027 ± 0.0004(0.0687 ± 0.0102)
M23053/7-115-C	4.000 (101.60)	2.800 (71.12)	0.0027 ± 0.0004(0.0687 ± 0.0102)
<u>Class 2</u>			
M23053/7-201-*	0.015 (.381)	0.011 (0.28)	<u>3/</u>
M23053/7-202-*	0.020 (.508)	0.015 (0.38)	
M23053/7-203-*	0.025 (.635)	0.019 (0.48)	
M23053/7-204-*	0.030 (.762)	0.023 (0.58)	
M23053/7-205-*	0.042 (1.06)	0.032 (0.81)	
M23053/7-206-*	0.046 (1.17)	0.035 (0.89)	
M23053/7-207-*	0.062 (1.57)	0.047 (1.19)	
M23053/7-208-*	0.093 (2.36)	0.070 (1.78)	
M23053/7-209-*	0.125 (3.18)	0.094 (2.39)	
M23053/7-210-*	0.187 (4.75)	0.140 (3.56)	
M23053/7-211-*	0.250 (6.35)	0.188 (4.78)	
M23053/7-212-*	0.312 (7.92)	0.234 (5.94)	
M23053/7-213-*	0.375 (9.53)	0.281 (7.14)	
M23053/7-214-*	0.500 (12.70)	0.375 (9.53)	
M23053/7-215-*	0.625 (15.88)	0.469 (11.91)	
M23053/7-216-*	0.750 (19.05)	0.563 (14.30)	
M23053/7-217-*	1.000 (25.40)	0.750 (19.05)	

