NOTICE

THIS DOCUMENT HAS BEEN TAKEN DIRECTLY FROM U.S. MILITARY SPECIFICATION MIL-I-23053/2C, AMENDMENT 1, NOTICE 1 AND CONTAINS ONLY MINOR EDITORIAL AND FORMAT CHANGES REQUIRED TO BRING IT INTO CONFORMANCE WITH THE PUBLISHING REQUIREMENTS OF SAE TECHNICAL STANDARDS. THE INITIAL RELEASE OF THIS DOCUMENT IS INTENDED TO REPLACE MIL-I-23053/2C, AMENDMENT 1, NOTICE 1. ANY PART NUMBERS ESTABLISHED BY THE ORIGINAL SPECIFICATION REMAIN UNCHANGED.

THE ORIGINAL MILITARY SPECIFICATION WAS ADOPTED AS AN SAE STANDARD UNDER THE PROVISIONS OF THE SAE TECHNICAL STANDARDS BOARD (TSB) RULES AND REGULATIONS (TSB 001) PERTAINING TO ACCELERATED ADOPTION OF GOVERNMENT SPECIFICATIONS AND STANDARDS. TSB RULES PROVIDE FOR (A) THE PUBLICATION OF PORTIONS OF UNREVISED GOVERNMENT SPECIFICATIONS AND STANDARDS WITHOUT CONSENSUS VOTING AT THE SAE COMMITTEE LEVEL, AND (B) THE USE OF THE EXISTING GOVERNMENT SPECIFICATION OR STANDARD FORMAT.

UNDER DEPARTMENT OF DEFENSE POLICIES AND PROCEDURES, ANY QUALIFICATION REQUIREMENTS AND ASSOCIATED QUALIFIED PRODUCTS LISTS ARE MANDATORY FOR DOD CONTRACTS. ANY REQUIREMENT RELATING TO QUALIFIED PRODUCTS LISTS (QPLS) HAS NOT BEEN ADOPTED BY SAE AND IS NOT PART OF THIS SAE TECHNICAL DOCUMENT.

THIRD ANGLE PROJECTION

PREPARED BY SAE COMMITTEE AMS-CE



INSULATION SLEEVING, ELECTRICAL, HEAT SHRINKABLE, POLYVINYL CHLORIDE, FLEXIBLE, CROSSLINKED AND NON-CROSSLINKED

AMS SPECIFICATION

AMS-I-23053/2 SHEET 1 OF 6

Printed in the U.S.A.

2000-06

SSUED

THE COMPLETE REQUIREMENTS FOR PROCURING THE SLEEVING DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT AND THE ISSUE IN EFFECT OF MIL-I-23053.

INACTIVE FOR NEW DESIGN

REQUIREMENTS:

THESE SLEEVINGS SHALL BE EXCLUDED FROM USE ON ALL SPACE VEHICLES, ALL AIRCRAFT, AND IN ENCLOSURES WHICH ARE SEALED OR PRIMARILY DEPENDENT ON RECIRCULATED ATMOSPHERE FOR COOLING.

CONTINUOUS OPERATING TEMPERATURE RANGE: -20°C (-4°F) TO +105°C (221°F).

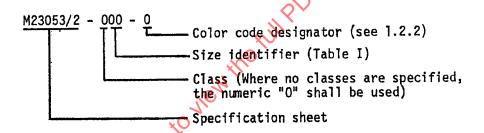
CLASSIFICATION: THE HEAT SHRINKABLE SLEEVING SHALL BE FURNISHED IN THE FOLLOWING CLASSES, AS SPECIFIED:

CLASS 1 - CROSSLINKED CLASS 2 - NON-CROSSLINKED

COLOR: CLASS 1 SHALL BE FURNISHED IN COLORS CONFORMING TO CLASS II OF MIL-STD-104. CLASS 2 SHALL BE FURNISHED IN CLEAR OR COLORS CONFORMING TO CLASS II OF MIL-STD-104 (SEE 1.2.2 AND 3.5.1.5).

LONGITUDINAL CHANGE: CLASS 1, +1%; CLASS 2, -25%

MILITARY PART NUMBER: THE MILITARY PART NUMBER SHALL CONSIST OF THE BASIC NUMBER OF THIS SPECIFICATION SHEET AND DASH NUMBERS AS SHOWN BELOW:



EXAMPLE: CLASS 2, STANDARD WALL, CLEAR, 0.750 INCH AS SUPPLIED ID SLEEVING SHALL BE IDENTIFIED AS M23053/2-209-C.



Military	As supplied	After unrestri	cted shrinkage
Part Number	I.D. min.	I.D. max.	Wall thickness 2/
Class 1			
M23053/2-101-* M23053/2-102-* M23053/2-103-* M23053/2-104-* M23053/2-105-* M23053/2-106-* M23053/2-107-* M23053/2-109-* M23053/2-110-* M23053/2-111-* M23053/2-112-*	.046 .063 .093 .125 .187 .250 .375 .500 .750 1.500 2.000	.023 .031 .046 .062 .093 .125 .187 .250 .375 .500 .750	.020 + .003 .020 + .003 .020 + .003 .025 + .003 .025 + .003 .025 + .003 .030 + .005 .030 + .005 .035 + .005 .040 + .005 .045 + .006
Class 2 Standard Wall M23053/2-201-* M23053/2-202-* M23053/2-203-* M23053/2-204-* M23053/2-205-* M23053/2-206-* M23053/2-207-* M23053/2-208-* M23053/2-210-* M23053/2-211-* M23053/2-212-*	.046 .063 .093 .125 .187 .250 .375 .500 .750 1.000 1.500 2.000	.023 .031 .046 .062 .093 .125 .187 .250 .375 .500 .750 1.000	.020 + .003 .020 + .003 .020 + .003 .025 + .003 .025 + .003 .025 + .003 .030 + .005 .030 + .005 .035 + .005 .040 + .005 .045 + .006 .050 + .007
Thin Wall M23053/2-213-* M23053/2-214-* M23053/2-215-* M23053/2-216-* M23053/2-217-* M23053/2-218-*	.063 .093 .125 .187 .250 .375	.037 .055 .075 .110 .150 .225	.014 + .003 .014 + .003 .014 + .003 .018 + .003 .022 + .004 .022 + .004

Military Part Number	As supplied I.D. min.	After unrest	After unrestricted shrinkage I.D. max. Wall thickness 2/	
Class 2				
Thin Wall M23053/2-219-* M23053/2-220-*	.500	.300	.022 + .004 .022 + .004	
M23053/2-221-* M23053/2-222-* M23053/2-223-*	1.000 1.500 2.000	.600 .900	.022 + .004 .034 + .005 .034 + .005	
M23053/2-224-* M23053/2-225-* M23053/2-226-*	3.000 4.000 5.000	1.800 2.400 3.000	.034 ± .005 .034 ± .005 .034 ± .005	
M23053/2-227-*	6.000	3.600	.034 7.005	

- Diameter limits for object to be enclosed shall be as recommended in technical data
- $\underline{2}$ / Wall thickness dimensions are less when shrinkage is restricted.
- * The asterisk in the part number shall be replaced by color code designations (see page 1 for available colors).

UNRESTRICTED SHRINKAGE: TEST METHOD 4.6.5; CLASS 1, 200 ± 2°C (392 ± 4°F) FOR 5 MINUTES. CLASS 2, 150 ± 2°C (302 ± 4°F) FOR 5 MINUTES.