

AS85080/1

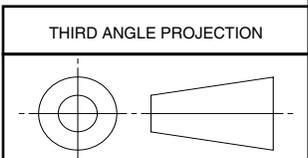
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ISSUED 2004-04

CUSTODIAN: SAE AE-8/AE-8C2

PROCUREMENT SPECIFICATION: MIL-I-85080



AEROSPACE STANDARD
INSULATION SLEEVING, ELECTRICAL,
SHRINKABLE WITHOUT HEAT, POLYVINYL
CHLORIDE, FLEXIBLE NON-CROSSLINKED

AS85080/1
SHEET 1 OF 3

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REQUIREMENTS:

CONTINUOUS OPERATING TEMPERATURE RANGE: CLASS 1: -20°C (-4°F) TO +105°C (221°F); CLASS 2: -20°C (-4°F) TO +125°F; CLASS 3: -65°C (-85°F) TO +90°C (195°F).

MODE OF SHRINKAGE: THE HEATLESS SHRINK TUBING SHALL RECOVER TO A PRE-DETERMINED DIAMETER UPON EXPOSURE TO THE ATMOSPHERE. NO EXTERNAL SOURCES OF HEAT ARE REQUIRED.

CLASSES: CLASS 1-NORMAL TEMPERATURE OPERATION
CLASS 2-EXTENDED TEMPERATURE OPERATION
CLASS 3-LOW TEMPERATURE OPERATION

COLOR: THE SLEEVING SHALL BE FURNISHED IN BLACK, WHITE OR CLEAR AS STANDARD COLORS. OTHER COLORS ARE AVAILABLE. COLORS SHALL CONFORM TO CLASS II OF MIL-STD-104.

LONGITUDINAL CHANGE: +2, -10%

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

M85080/1 - X XX - X

_____ COLOR CODE DESIGNATOR (SEE 1.2.2)

_____ SIZE IDENTIFIER (TABLE I)

_____ CLASS (WHERE NO CLASSES ARE SPECIFIED, THE NUMERIC "0" SHALL BE USED)

_____ SPECIFICATION SHEET

EXAMPLE: CLASS 1, BLACK, 1.00 INCH AS SUPPLIED ID SLEEVING SHALL BE IDENTIFIED AS M85080/1-109-0.

TABLE I. DIMENSIONS (INCHES). 1/

MILITARY PART NUMBER 4/	AS SUPPLIED I.D. MIN 2/	AFTER UNRESTRICTED SHRINKAGE	
		I.D. MAX	WALL THICKNESS 3/
M85080/1-001-X	.05	.031	.012 ± .003
M85080/1-002-X	.10	.062	.020 ± .003
M85080/1-003-X	.15	.093	.020 ± .003
M85080/1-004-X	.20	.125	.025 ± .003
M85080/1-005-X	.30	.187	.025 ± .003
M85080/1-006-X	.40	.250	.025 ± .003
M85080/1-007-X	.60	.375	.030 ± .005
M85080/1-008-X	.80	.500	.030 ± .005
M85080/1-009-X	1.00	.625	.035 ± .005
M85080/1-010-X	1.20	.750	.035 ± .005
M85080/1-011-X	1.60	1.000	.040 ± .005
M85080/1-012-X	2.00	1.250	.045 ± .005
M85080/1-013-X	2.40	1.500	.050 ± .006
M85080/1-014-X	2.80	1.750	.050 ± .006
M85080/1-015-X	3.20	2.000	.055 ± .007

1/ DIAMETER LIMITS FOR OBJECT TO BE ENCLOSED SHOULD BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER.

2/ THE INNER DIAMETER OF THE SLEEVE MAY BE MECHANICALLY EXPANDED 2.5X THE RECOVERED INSIDE DIAMETER WHEN IN THE AS-SUPPLIED CONDITION. THE MANUFACTURER SHOULD BE CONSULTED FOR SPECIAL APPLICATIONS AND RECOMMENDATIONS.

3/ WALL SHRINKAGE WILL BE LESS IF SHRINKAGE IS RESTRICTED.

4/ SEE MILITARY PART NUMBER FOR CLASS DESIGNATIONS. COLOR CODE IDENTIFIED SHALL BE REPLACED BY THE COLOR CODE FROM 1.2.2.

UNRESTRICTED SHRINKAGE: 4.6.3.13; 23° ± 1°C (73.4° ± 2°F) FOR 24 HOURS.