



AEROSPACE STANDARD	AS85848™	REV. A
	Issued 2002-03 Reaffirmed 2012-01 Stabilized 2017-07	
	Superseding AS85848	
Sleeving, for Identification Marking, Heat Shrinkable, General Specification for FSC 5970		

RATIONALE

This document has been declared "Stabilized" by the SAE AE-8D Wire and Cable Committee and will no longer be subjected to periodic reviews for currency. Users are responsible for verifying references and continued suitability of technical requirements. Users are referred to AS23053 for alternative marking sleeves.

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NOTICE

This document has been taken directly from U.S. Military Specification MIL-S-85848 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-S-85848. 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 (QPL's) has not been adopted by SAE and is not part of this SAE technical document.

This specification is approved for use within the Naval Air Systems Command. Department of the Navy, and is available for use by all Departments and Agencies of the Department of Defense.

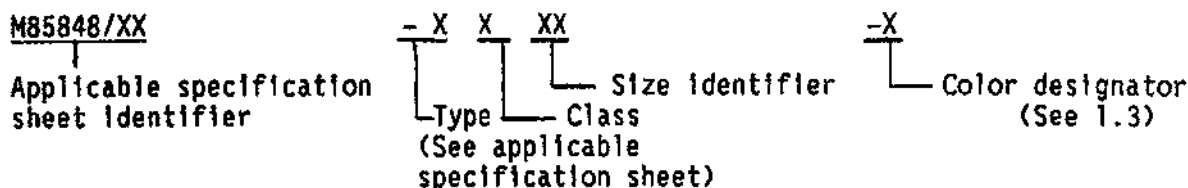
1. SCOPE:

1.1 Scope:

This specification establishes the requirements for various types of identification sleeving that will shrink to a predetermined size upon the application of heat after it has been marked. Continuous operating temperature ratings range from -55° to 175°C (-67° to 347°F). (See 6.1).

1.2 Part numbers:

Part numbers under this specification are coded as follows:



See applicable specification sheet for example.

1.3 Color:

The color shall be identified in accordance with the following:

<u>Designator</u>	<u>Color</u>	<u>Designator</u>	<u>Color</u>
0	Black	6	Blue
1	Brown	7	Violet (Purple)
2	Red	8	Gray (Slate)
3	Orange	9	White
4	Yellow	C	Clear
5	Green	P	Pink

2. APPLICABLE DOCUMENTS:

2.1 Government Documents:

- 2.1.1 Specifications, standards and handbooks: Unless otherwise specified, the following specifications, standards and handbooks of the issue listed in the issue of the Department of Defense Index of Specifications and Standards (DODISS) specified in the solicitation form a part of this specification to the extent specified herein.

SPECIFICATIONS

FEDERAL

O-S-1926	Sodium Chloride, Technical
PPP-B-636	Boxes, Shipping, Fiberboard
PPP-B-640	Box, Fiberboard, Corrugated, Triple Wall
PPP-T-60	Tape, Packaging, Waterproof

MILITARY

MIL-P-116	Preservation, Methods of
MIL-H-5606	Hydraulic Fluid, Petroleum Base, Aircraft, Missile and Ordnance
MIL-T-5624	Turbine Fuel, Aviation, Grades JP-4 and JP-5
MIL-L-7808	Lubricating Oil, Aircraft Turbine Engine, Synthetic Base
MIL-A-8243	Anti-Icing and Deicing-Defrosting Fluid
MIL-L-23699	Lubricating Oil, Aircraft Turbine Engines, Synthetic Base
MIL-M-81531	Marking of Electrical Insulating Materials

(See Supplement 1 for applicable specification sheets).

STANDARDS

FEDERAL

FED-STD-228	Cable and Wire, Insulated, Methods of Testing
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MILITARY

MIL-STD-104	Limit for Electrical Insulation Color
MIL-STD-105	Sampling Procedures and Tables for Inspection by Attributes
MIL-STD-129	Marking for Shipment and Storage
MIL-STD-147	Palletized Unit Loads
MIL-STD-202	Test Methods for Electronic and Electrical Component Parts

(Copies of specifications, standards, handbooks, drawings and publications required by contractors in connection with specific acquisition functions should be obtained from the contracting activity or as directed by the contracting activity.)

2.2 Other publications:

The following documents form a part of this specification to the extent specified herein. The issues of the documents which are DoD adopted shall be the issue listed in the current DoDISS and supplement thereto, if applicable.

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

ASTM D 570	Testing for Water Absorption of Plastics
ASTM D 638	Tensile Properties of Plastics
ASTM D 792	Specific Gravity and Density of Plastics by Displacement
ASTM D 882	Tensile Properties of Thin Plastic Sheeting
ASTM D 2671	Testing Heat Shrinkable Tubing for Electrical Use
ASTM D 3951	Commercial Packaging
ASTM E 595	Total Mass Loss and Collected Volatile Condensable Materials from Outgassing in a Vacuum Environment
ASTM G 21	Resistance of Synthetic Polymeric Materials to Fungi, Recommended Practice for Determining

(Application for copies should be addressed to the American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103).

(Industry association specifications and standards are generally available for reference from libraries. They are also distributed among technical groups and using Federal agencies.)

2.3 Order of precedence:

In the event of a conflict between the text of this specification and the references cited herein (except for associated detail specifications, specification sheets or MS standards), the text of this specification shall take precedence. Nothing in this specification, however, shall supersede applicable laws and regulations unless a specific exemption has been obtained.

3. REQUIREMENTS:

3.1 Specification sheets:

The heat shrinkable identification sleeving shall be as specified herein and in accordance with the applicable specification sheets. In the event of discrepancy between this specification and the specification sheet, the specification sheet shall govern.

3.2 First article:

When specified in the contract or purchase order, a sample will be subjected to first article inspection (See 6.2.2).

3.3 Dimensions and Tolerances:

See specification sheets for dimensional and tolerance requirements.

3.3.1 Type I-Flatweb format:

3.3.1.1 Sleeve length and width “as supplied”: When tested as specified herein, the sleeve length and width shall meet the requirement of the applicable specification sheet.

3.3.2 Type II-Sleeving: When tested as specified herein, the as supplied inside diameter, after recovery inside diameter, and the length shall meet the requirement in the applicable specification sheet.

3.3.3 Unit of issue: The unit of issue for identification sleeving shall be an individual piece. Reference shall be made to the applicable specification sheet for the minimum quantity of sleeving pieces available from a package.

3.3.4 Sheets and rolls: Unless otherwise specified in the contract or order, the minimum quantity of sleeving available in standard sheet or roll form shall be as specified in the applicable specification sheets.

3.4 Color:

The “as supplied” color of the sleeving shall be in accordance with the requirements of MIL-STD-104. MIL-STD-104 does not include any limits for pink or tan colors. Munsell color notations for these colors shall be as follows:

<u>Color</u>	<u>Light limit</u>	<u>Nominal</u>	<u>Dark limit</u>
Pink	3.75R 6.5/9.0	2.5R 6.0/7.0	1.25R 5.5/6.0
Tan	5Y 5.5/6.0	5Y 5.0/5.0	5YR 4.5/4.0

3.5 Restricted shrinkage:

After testing as specified in 4.6.3, the shrunk sleeving or flat web material shall fit snugly over the wire without cracking.

3.6 Properties:

3.6.1 Color stability: When tested as specified in 4.6.4, the sleeving shall be within the “as received” limits for the color in MIL-STD-104.

3.6.2 Tensile Strength: Tensile strength shall be as specified in the applicable specification sheet when determined in accordance with 4.6.5.

3.6.3 Modulus: See specification sheet for secant modulus or tensile stress as applicable. Testing shall be as specified in 4.6.6 and may be performed on as supplied or shrunk sleeves.