



AEROSPACE STANDARD

AS6976™

Issued 2022-12

Sleeving, Identification, Heat Shrinkable, General Specification
(Federal Supply Class 5970)

RATIONALE

Specification to define and update for the technology and reflect the sleeves that are currently available and in use. Require the use of AS23053 base sleeving and qualification by qualified parts list (QPL/SIS).

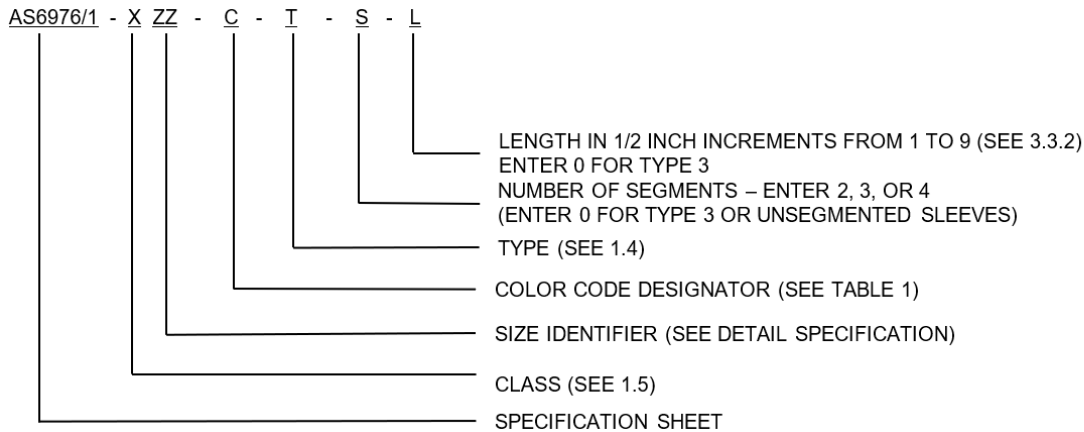
1. SCOPE

1.1 Scope

This SAE Aerospace Standard (AS) 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 using AS23053 sleeves as basis material. This AS does not cover specific carrier configuration.

1.2 Part Numbers

The part numbers shall be defined as below, unless otherwise defined in detail specification:



EXAMPLE PART NUMBER: AS6976/1-301-4-3-0-0 DESIGNATES IDENTIFICATION SLEEVE IN ACCORDANCE WITH THIS DETAIL SPECIFICATION THAT IS CLASS 3, SIZE 01, AND YELLOW WITH NO SEGMENT SCORE(S), TYPE 2, AND SPOOLED.

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<https://www.sae.org/standards/content/AS6976/>

1.3 Color

Table 1 - Color definition

Designator	Color	Designator	Color
0	Black	7	Violet (purple)
1	Brown	8	Gray (slate)
2	Red	9	White
3	Orange	C	Clear
4	Yellow	P	Pink
5	Green	T	Tan
6	Blue		

1.4 Classification

Detail specification shall define additional part classification(s) not listed herein.

1.4.1 Construction

1.4.1.1 Type 1: Discrete Form Factor - Lateral Placement

The Type 1 sleeves shall be supplied in a printable medium in discrete lengths dispensed perpendicular to the feed direction. Each discrete sleeve may be perforated in segments to enable splitting the sleeve for shorter length labels. See part numbering for specifying number of split sections.

1.4.1.2 Type 2: Discrete Form Factor - Axial Placement

The Type 2 sleeves shall be supplied in a printable medium in discrete lengths dispensed in the same direction as the feed direction. Each discrete sleeve may be perforated segments to enable splitting the sleeve for shorter length labels. See part numbering for specifying number of split sections.

1.4.1.3 Type 3: for Continuous Form Factor

The Type 3 sleeves shall be provided in continuous length on a reel, spool, or coiled format. User may cut as required for the application as needed.

1.5 Class

Detail specification shall define each marker sleeve with the corresponding class to applicable AS23053 detail specification.

2. REFERENCES

2.1 Applicable Documents

The following publications form a part of this document to the extent specified herein. The latest issue of SAE publications shall apply. The applicable issue of other publications shall be the issue in effect on the date of the purchase order. In the event of conflict between the text of this document and references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

2.1.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or +1 724-776-4970 (outside USA), www.sae.org.

AMS1424 Fluid, Aircraft Deicing/Anti-Icing, SAE Type I

AS1241 Fire Resistant Phosphate Ester Hydraulic Fluid for Aircraft

AS6976/5	Sleeving, Identification, Heat Shrinkable, 125 °C and 135 °C, Polyolefin, Flexible, Crosslinked
AS9100	Quality Management Systems - Requirements for Aviation, Space, and Defense Organizations
AS23053	Insulation Sleeving, Electrical, Heat Shrinkable, General Specification for

2.1.2 ASQ Publications

Available from American Society for Quality, 600 North Plankinton Avenue, Milwaukee, WI 53203, Tel: 800-248-1946 (United States or Canada), 001-800-514-1564 (Mexico), or +1-414-272-8575 (all other locations), www.asq.org.

ANSI/ASQ Z1.4	Sampling Procedures and Tables for Inspection by Attributes
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2.1.3 ASTM Publications

Available from ASTM International, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959, Tel: 610-832-9585, www.astm.org.

ASTM D2671	Standard Test Methods for heat-Shrinkable Tubing for Electrical Use
ASTM G154	Standard Practice for Operating Fluorescent Ultraviolet (UV) Lamp Apparatus for Exposure of Nonmetallic Materials
ASTM G155	Standard Practice for Operating Xenon Arc Light Apparatus for Exposure for Non-Metallic Materials

2.1.4 National Conference of Standards Laboratories (NCSL) Publications

Available from NCSL International, 2995 Wilderness Place, Suite 107, Boulder, CO 80301, Tel: 303-440-3339, www.ncsli.org.

ISO ISO/IEC 17025	General Requirements for the Competence of Testing and Calibration Laboratories
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2.1.5 U.S. Government Publications

Copies of these documents are available online at <https://quicksearch.dla.mil>.

A-A-694	Sodium Chloride, Technical
MIL-DTL-83133	Turbine Fuel, Aviation, Kerosene Type, JP-8 (NATO F-34), NATO F-35, and JP-8+100 (NATO F-37)
MIL-PRF-5606	Hydraulic Fluid, Petroleum Base; Aircraft, Missile, and Ordnance
MIL-PRF-7808	Lubricating Oil, Aircraft Turbine Engine, Synthetic Base
MIL-PRF-23699	Lubricating Oil, Aircraft Turbine Engine, Synthetic Base, NATO Code Numbers: O-152, O-154, O-156, and O-167
MIL-PRF-87937	Performance Specification, Cleaning Compound, Aerospace Equipment
MIL-STD-129	Military Marking for Shipment and Storage
SD-6	Provisions Governing Qualification
TT-I-735	Isopropyl Alcohol