

NAS 3426

## ADOPTION NOTICE

NAS 3426, "Electrical Harness-Cable Assemblies, Packaging Of", was adopted on 30 August 1996, for use by the Department of Defense (DoD). Proposed changes by DoD activities must be submitted to the DoD Adopting Activity: US Army Communications-Electronics Command, ATTN: AMSEL-LC-LEO-E-ET-3, Fort Monmouth, NJ 07703-5000. DoD activities may obtain copies of this standard from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094. The private sector and other Government agencies may purchase copies from the Aerospace Industries Association, 1250 Eye Street NW, Washington, DC 20005.

## Custodians:

Army - CR  
Navy - EC  
Air Force - 99

## Adopting Activity:

Army - CR

(Project PACK-1048)

FSC PACK

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

1.0 SCOPE This standard provides a method for the packaging of electrical harness and cable assemblies.

2.0 REFERENCES

2.1 General Packaging Standard NAS 850.

3.0 REQUIREMENTS

3.1 GENERAL

3.1.1 Requirements of General Packaging Standard NAS 850 are part of this standard except as noted herein.

3.1.2 Packaging and packing of electrical harness and cable assemblies in straight lengths is preferred. Harness and cable assemblies may be coiled when necessary for reduction of cube, ease of handling and distribution of packed weight.

3.1.3 Minimum coil diameter and uniform configuration shall be observed whenever it is necessary to coil harness or cable assemblies. Kinking shall not be permitted under any circumstances.

3.1.4 Preformed items shall be packaged to ensure that the design configuration is retained when specified on the Engineering drawing.

3.1.5 No coil shall have an inside diameter of less than 10 times the item's largest cross-section diameter. Minimum inside coil diameter for solid metal jacketed coaxial (e.g. aljak, heliax, spir-o-line) shall be 36 inches regardless of item diameter.

**CAUTION: ENSURE THAT WIRES ARE NOT STRAINED AT SPLICED AREAS OR PROCESSED TERMINATION POINTS WHEN COILING.**

3.1.6 Processed terminations, couplings, fittings, etc., shall conform to the configuration and not be forced into the coil void space.

3.2 UNIT PACKAGING

3.2.1 The quantity per unit package shall be as follows, unless otherwise specified by the procurement document:

One (1) each (length, type or size)

3.2.2 When coiling is employed, items shall be coiled in successive turns or layers in uniform, compact configurations on spools or reels, or coiled and secured within suitable containers.

3.2.3 Coiled assemblies shall be adequately secured by blocking, bracing, cushioning, affixing to core spools, and/or by placing tape or strapping equally spaced around the circumference of the coil to ensure that the configuration of the coiled layers is maintained. Spools and reels (wood, steel or fiber) are acceptable if their drum diameters meet the minimum coil diameter (bend radius) requirements and if they will accommodate the bulk and weight of the item. Steel strapping shall not be used. When used, the flanges of any spool or reel shall extend beyond the coiled unit.

3.2.4 Heliax cable shall be coiled on a fixed reel within a container. Blocking and bracing shall not be used for heliax cable.

**NOTE: Steel spools shall not be used with solid metal-jacketed coaxial cables.**

3.2.5 All unit openings shall be closed with protective plugs or caps. Alternate methods which provide the intended protection are acceptable.

3.2.6 All cable harness terminations shall be wrapped or bagged with plastic material taped or tied in place, then overwrapped with cushioning material.

3.3 INTERMEDIATE PACKAGING

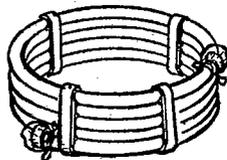
3.3.1 Intermediate packaging shall be in accordance with applicable requirements of NAS 850.

3.4 PACKING

3.4.1 Exterior packing shall be in accordance with applicable requirements of NAS 850.

3.5 MARKING

3.5.1 Unit, intermediate, and exterior containers shall be marked in accordance with applicable requirements of NAS 850.



① COMPLETELY REVISED

**LIST OF CURRENT SHEETS**

REV.	NO.
1	1
2	1

CUSTODIAN:

MANUFACTURING COMMITTEE

PROCUREMENT SPECIFICATION

TITLE

**ELECTRICAL HARNESS-CABLE ASSEMBLIES,  
 PACKAGING OF**

CLASSIFICATION

PACKAGING STANDARD

NONE

**NAS 3426**

Sheet 1 of 2

AIA AND ITS COMMITTEES WILL NOT INVESTIGATE THE APPLICABILITY OF THESE STANDARDS AND IN RESPECT THEREOF DO NOT ASSUME ANY LIABILITY TO PATENT OWNERS OR TO PROSPECTIVE USERS

THIS DRAWING SUPERSEDES ALL ANTECEDENT STANDARD DRAWINGS FOR THE SAME PRODUCT AND SHALL BECOME EFFECTIVE NO LATER THAN SIX MONTHS FROM THE LAST DATE OF APPROVAL SHOWN HEREON

APPROVAL DATE March 1966 REVISION ① 1 March 1971

# NATIONAL AEROSPACE STANDARD

AEROSPACE INDUSTRIES ASSOCIATION OF AMERICA, INC., 1725 DE SALES STREET, N. W., WASHINGTON, D. C. 20036

## 4.0 QUALITY ASSURANCE

4.1 Packages which do not conform to these requirements are subject to rejection and return to supplier at his expense.

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AIA AND ITS COMMITTEES WILL NOT INVESTIGATE THE APPLICABILITY OF PATENTS TO THE SUBJECT MATTER OF NAS STANDARDS AND IN RESPECT THEREOF DO NOT ASSUME ANY LIABILITY TO PATENT OWNERS OR TO PROSPECTIVE USERS.

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