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INTERNATIONAL
400 Commonwealth Drive, Warrendale, PA 15096-0001

AEROSPACE STANDARD

SAE AS5688

Issued 1998-01

Submitted for recognition as an American National Standard

Cable Assemblies; Aircraft, Proof Testing and Prestretching of

NOTICE

This document has been taken directly from U.S. Military Specification MIL-C-5688A, Amendment 1 and contains only minor editorial and format changes required to bring it into conformance with the publishing requirements of SAE technical standards. Any part numbers established by the original specification remain unchanged and may not reflect the document number of the SAE Standard.

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Any material relating to qualified product lists has not been adopted by SAE. This material was part of the original military specification and is reprinted here for historic reference only.

1. SCOPE:

1.1 This specification presents the standard method for the proof testing and prestretching of aircraft cable assemblies.

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2. APPLICABLE SPECIFICATIONS:

2.1 The following specifications, of the issue in effect on date of invitation for bids, shall form a part of this specification to the extent specified herein:

Military

MIL-C-1511	Cable; Steel (Carbon) Flexible, Preformed
MIL-C-5424	Cable; Steel (Corrosion-Resisting), Flexible, Preformed (For Aeronautical Use)
MIL-S-5676	Splicing; Cable Terminal, Process for, Aircraft
JAN-T-781	Terminals; Cable, Steel (For Swaging)

(Copies of this specification and copies of other publications referenced herein or required for Government procurement, and the Index of Military Aeronautical (AN or MIL) Standards, may be obtained upon application to the Commanding General, Air Materiel Command, Wright-Patterson Air Force Base, Dayton, Ohio; or the Commanding Officer, U. S. Naval Air Station, Johnsville, Pennsylvania.)

3. PROCEDURE:

3.1 Load:

The load for proof testing and prestretching of all cable terminal assemblies including the entire length of the cable shall be a minimum of 60 percent of the breaking strength of the cable, as specified in Specifications MIL-C-1511 and MIL-C-5424. The load shall be applied with the cable assembly lying in a straight line for the period of time specified as follows:

Type of Cable Assembly	Duration of Load Application (Min)
Swaged Terminal 1/	5 seconds
Spliced Terminal 2/	3 minutes

1/ Applies to swaged terminals conforming to Specification JAN-T-781.
2/ Applies to Tuck splices conforming to Specification MIL-S-5676, crimped and swaged sleeves and miscellaneous clamps.

3.1.1 Application of Load: The load shall be applied evenly by dead load or by any suitable test machine in not less than 3 seconds. The release shall be made evenly and gradually.

3.1.2 Rejection: Any cable terminal assemblies showing any slippage noticeable to the unaided eye shall be rejected. A suitable marking of the cable terminal joint shall be made prior to application of the load to aid in determination of any slippage.