SLOVENSKI STANDARD

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Aeronavtika ï Elementi elektriļ nih in optiļ nih povezav ï Preskusne metode ï 423. del: Trdnost zadnjega navoja pri konektorju

Aerospace series - Elements of electrical and optical connection - Test methods - Part 423: Connector rear accessories thread strength

Luft- und Raumfahrt - Elektrische und optische Verbindungselemente - Prüverfahren - Teil 423: Steckverbinder, Festigkeit des rückwärtigen Gewindes

Série aérospatiale - Organes de connexion électrique et optique - Méthodes d'essais - Partie 423 : Résistance des filetages arrieres des connecteurs

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Foreword

This European Standard (EN 2591-423:2005) has been prepared by the European Association of Aerospace Manufacturers - Standardization (AECMA-STAN).

After enquiries and votes carried out in accordance with the rules of this Association, this Standard has received the approval of the National Associations and the Official Services of the member countries of AECMA, prior to its presentation to CEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by April 2006, and conflicting national standards shall be withdrawn at the latest by April 2006.

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1 Scope

This standard specifies a method to verify the ability of the accessory thread of the connector to withstand stresses.

It shall be used together with EN 2591-100.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 2591-100, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 100: General.*

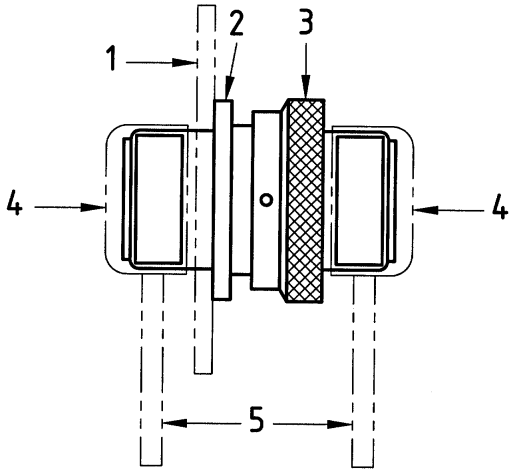
EN 2591-101, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 101: Visual examination.*

3 Preparation of specimens

3.1 The specimens shall be mated and mounted as in normal service to a rigid panel (which shall not be deformed by the applied stress), see Figure 1.

3.2 Unless indicated in the technical specification, the following details shall be specified:

— torque values.



Key

1 Simulated mounting panel
2 Receptacle shell
3 Plug shell
4 Back shell
5 Torque wrench lever arm

Figure 1 — Connector rear accessory thread strength

4 Apparatus

The torque wrench shall be attached as shown on Figure 1. Any suitable equipment for applying and measuring the torque values.

5 Method

5.1 Procedure

A torque shall be applied to the accessory end of the plug at a rate of approximately 1 N·m/s until the required torque is achieved. The applied load shall be held for one minute.

5.2 Requirement

After removal, the specimens shall be examined visually as per test EN 2591-101. No deformation on any constituent part shall be observed.