SLOVENSKI STANDARD

SIST EN 2591-226:2008

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Aeronavtika - Elementi elektriļnih in optiļnih povezav - Preskusne metode - 226. del: Korona

Aerospace series - Elements of electrical and optical connection - Test methods - Part 226: Corona level

Luft- und Raumfahrt - Elektrische und optische Verbindungselemente - Prüfverfahren - Teil 226: Coronaspannung

Série aérospatiale - Organes de connexion électrique et optique - Méthodes d'essais - Partie 226: Seuil de décharge Corona

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Luft- und Raumfahrt - Elektrische und optische Verbindungselemente - Prüfverfahren - Teil 226: Coronaspannung

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Foreword

This document (EN 2591-226:2007) has been prepared by the Aerospace and Defence Industries Association of Europe - Standardization (ASD-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 ASD, 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of an identical text or by endorsement, at the latest by June 2008, and conflicting national standards shall be withdrawn at the latest by June 2008.

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1 Scope

This standard specifies a test method to determine no sustained Corona discharge on a mated pair of connectors.

It shall be use 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*.

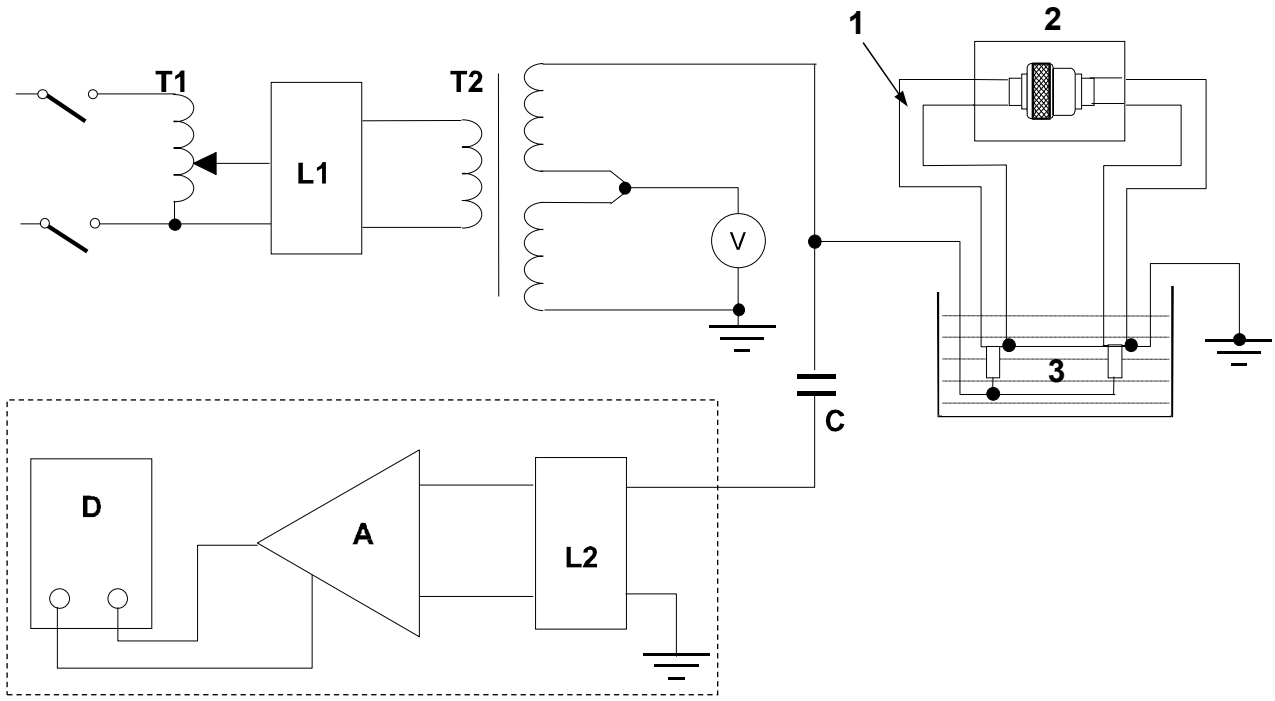
EN 4604-002, *Aerospace series — Cable, electrical, for signal transmission — Part 002: General*.

3 Preparation of specimens

The mating connector pair to be tested shall be arranged in a suitable test circuit such as indicated in Figure 1.

Type of coaxial cable and length used shall be defined by product standard and EN 4604-002.

4 Apparatus



Key

A Detector amplifier
C Corona free coupling capacitor ≥ Total circuit capacitance
D Discharge display
L1 Input line filter (100 dB, 10 kHz to 10 GHz)
L2 (10-50) kHz detector input filter
T1 (0-130) V Variable transformer
T2 High voltage transformer (Corona free – less than five picocoulombs)
V Voltmeter
1 Coaxial cable
2 Sample
3 Oil
4 Detector

Figure 1

5 Method

Components of the test circuit shall be Corona free to the extent that a discharge of five picocoulombs or less can be measured when the 50 Hz test potential is increasing to the value at the reduced pressure given by product standard.

No grease or similar compound shall be used in or on the test item. After the sample is purged of air, the 50 Hz voltage shall be slowly increase until the detector operated at a sensitivity of five picocoulombs level or less.

The latter Voltage value is being the Corona level of the connector under test.

A Corona detector may be use instead of the test set up describes in Figure 1.

6 Requirements

Corona level shall be less than specified in the product standard.