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IRISH STANDARD

I.S. EN 2591-221:2007

ICS 49.060

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AEROSPACE SERIES - ELEMENTS OF ELECTRICAL AND OPTICAL CONNECTION - TEST METHODS - PART 221: VOLTAGE STANDING WAVE RATIO (VSWR)

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English Version

Aerospace series - Elements of electrical and optical connection - Test methods - Part 221: Voltage Standing Wave Ratio (VSWR)

Série aérospatiale - Organes de connexion électrique et optique - Méthodes d'essais - Partie 221 : Ratio d'Ondes Stationnaires

Luft- und Raumfahrt - Elektrische und optische Verbindungselemente - Prüfverfahren - Teil 221: Stehwellenverhältnis

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Foreword

This document (EN 2591-221:2007) 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of an identical text or by endorsement, at the latest by June 2008, and conflicting national standards shall be withdrawn at the latest by June 2008.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 measurement method of VSWR, in the required frequency bandwidth of coax contacts or connectors with characteristic impedance.

It shall be used together with EN 2591-100.

The measurement is carried out according to vectorial method using *"S"* parameters (see definition in Annex A).

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.*

3 Preparation of specimens

Method "A"

This method is applicable, when a calibrated adapter, for the series of connectors or contacts to be tested, exists.

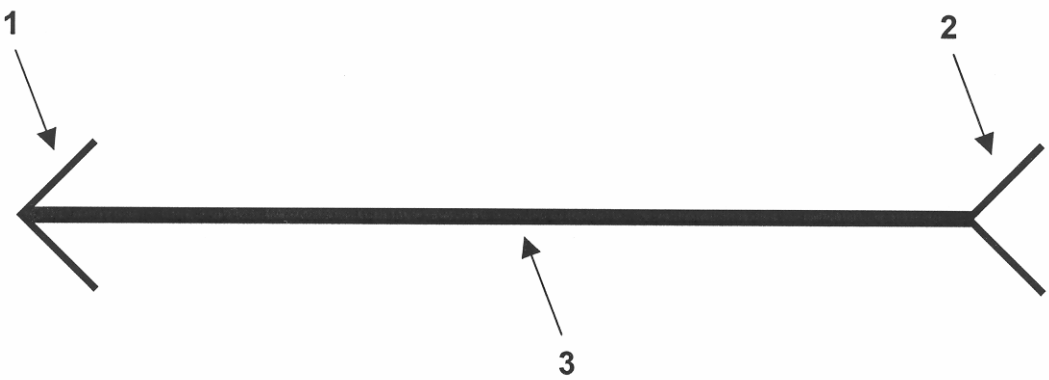
The sampling shall include, for each specified cable, one section of coaxial cable with device under test at both ends.

The section is constituted/described only as follows (see Figure 1):

— (600 ± 2,5) mm of coaxial cable

— 1 male coaxial device

— 1 female coaxial device



Key

1 Male coaxial device

2 Female coaxial device

3 Coaxial cable; Lg. = (600 ± 2,5) mm

Figure 1

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