SLOVENSKI STANDARD
SIST EN 3475-812:2009

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Aeronavtika - Elektriļ ni kabli za uporabo v zraļ nih plovilih - Preskusne metode - 812. del: Povratna izguba (VSWR)

Aerospace series - Cables, electrical, aircraft use - Test methods - Part 812: Return loss (VSWR)

Luft- und Raumfahrt - Elektrische Leitungen fur Luftfahrtverwendung - Prufverfahren - Teil 812: Ruckflussdampfung

Série aérospatiale - Câbles électriques à usage aéronautique - Méthodes d'essais - Partie 812: Affaiblissement de réflexion

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49.060	Letalska in vesoljska elektriļ na oprema in sistemi	Aerospace electric equipment and systems

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COMITÉ EUROPÉEN DE NORMALISATION
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Foreword

This document (EN 3475-812:2009) 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of an identical text or by endorsement, at the latest by February 2010, and conflicting national standards shall be withdrawn at the latest by February 2010.

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1 Scope

This standard specifies methods for measuring return loss (VSWR), in the required frequency bandwith of coaxial cables with characteristic impedance.

The return loss is used for quantifying the level of the reflected signal due to the irregularity of the characteristic impedance of the cable.

It is intended to be used together with EN 3475-100.

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 3475-100, *Aerospace series — Cables, electrical, aircraft use — Test methods — Part 100: General.*

EN 50289-1-11, *Communication cables — Specifications for test methods — Part 1-11: Electrical test methods — Characteristic impedance, input impedance, return loss.*

3 Preparation of specimens

The length of the test specimen shall be as specified in the product standard.

Connectors shall be fitted on each end of the cable under test, to be connected to the measuring device.

To verify the adaptation of the connectors on the cable, check the VSWR of the connectors, using the temporal response (time domain).

4 Apparatus

As specified in EN 50289-1-11.

5 Methods

The VSWR shall be measured out in accordance with the method described in EN 50289-1-11.

Perform the measurement other the range of frequencies specified in the product standard.

6 Requirements

The return loss values obtained shall not exceed the values specified in the product standard.