



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 3745-411:2007

ICS 49.060

**AEROSPACE SERIES - FIBRES AND CABLES,
OPTICAL, AIRCRAFT USE - TEST METHODS -
PART 411: RESISTANCE TO FLUIDS**

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EUROPEAN STANDARD

EN 3745-411

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English Version

Aerospace series - Fibres and cables, optical, aircraft use - Test methods - Part 411: Resistance to fluids

Série aérospatiale - Fibres et câbles optiques à usage
aéronautique - Méthodes d'essais - Partie 411 : Résistance
aux fluides

Luft- und Raumfahrt - Faseroptische Leitungen für
Luftfahrzeuge - Prüfverfahren - Teil 411: Beständigkeit
gegen Flüssigkeiten

This European Standard was approved by CEN on 23 June 2007.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN Management Centre has the same status as the official versions.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This document (EN 3745-411:2007) 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of an identical text or by endorsement, at the latest by February 2008, and conflicting national standards shall be withdrawn at the latest by February 2008.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

EN 3745-411:2007 (E)

1 Scope

This standard specifies methods of measuring the fluid resistance of a finished cable.

It shall be used together with EN 3745-100, EN 3909 and TR 4542.

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 3745-100, *Aerospace series — Fibres and cables, optical, aircraft use — Test methods — Part 100: General.* ¹⁾

EN 3745-201, *Aerospace series — Fibres and cables, optical, aircraft use — Test methods — Part 201: Visual examination.*

EN 3745-503, *Aerospace series — Fibres and cables, optical, aircraft use — Test methods — Part 503: Scrape abrasion.*

EN 3909, *Aerospace series — Test fluids for electric components and sub-assemblies.* ²⁾

TR 4542, *Aerospace series — Guidance for fluid tests.* ¹⁾

3 Test procedures

Two test procedures are proposed, depending of the need.

Test method 1: occasional contamination

Aim: to offer a test method to appreciate the behaviour of the insulation in case of occasional contamination.

See EN 3909.

Test method 2: extended contamination

Aim: to measure the fluid resistance and to be applied for qualification of a product standard.

See EN 3909 (and associated TR 4542).

Unless otherwise specified in the product standard, all fluids mentioned in EN 3909 are mandatory.

1) In preparation at the date of publication of this standard.

2) Published as ASD Prestandard at the date of publication of this standard.

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