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Aerospace series - Fibres and cables, optical, aircraft use - Test methods - Part 404: Thermal shock

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NATIONAL FOREWORD

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See Eesti standard EVS-EN 3745-404:2019 sisaldab Euroopa standardi EN 3745-404:2019 ingliskeelset teksti.	This Estonian standard EVS-EN 3745-404:2019 consists of the English text of the European standard EN 3745-404:2019.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 18.09.2019.	Date of Availability of the European standard is 18.09.2019.
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ICS 49.090

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 3745-404

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ICS 49.090

Supersedes EN 3745-404:2005

English Version

Aerospace series - Fibres and cables, optical, aircraft use - Test methods - Part 404: Part 404: Thermal shock

Série aérospatiale - Fibres et câbles optiques à usage aéronautique - Méthodes d'essais - Partie 404 : Partie 404 : Choc thermique

Luft- und Raumfahrt - Faseroptische Leitungen für Luftfahrzeuge - Prüfverfahren - Teil 404: Teil 404: Thermischer Schock

This European Standard was approved by CEN on 14 July 2019.

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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-CENELEC 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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European foreword

This document (EN 3745-404:2019) 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 March 2020, and conflicting national standards shall be withdrawn at the latest by March 2020.

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

This document supersedes EN 3745-404:2005.

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1 Scope

This document specifies a method to determine the effects of thermal shock on an optical fibre or cable.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 3745-100, *Aerospace series — Fibres and cables, optical, aircraft use — Test methods — Part 100: General*

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

EN 3745-301,*Aerospace series — Fibres and cables, optical, aircraft use — Test methods — Part 301: Attenuation*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at http://www.iso.org/obp
- IEC Electropedia: available at http://www.electropedia.org/

4 Preparation of specimens

4.1 If not at standard test conditions, the specimens shall be subjected to standard test conditions and stabilised at these conditions for 24 h as defined in EN 3745-100.

4.2 The following details shall be specified if not already included in the product standard:

- the number of specimens;
- the number of temperature cycles, if not four cycles;
- maximum permissible variation in attenuation;
- the upper and lower temperatures at which test is carried out;
- relative humidity during the test;
- diameter of the coil.

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