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NSAI Standards

Irish Standard
I.S. EN 3745-516:2017

Aerospace series - Fibres and cables, optical, aircraft use - Test methods - Part 516: Severe cable bend test

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I.S. EN 3745-516:2017

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National Foreword

I.S. EN 3745-516:2017 is the adopted Irish version of the European Document EN 3745-516:2017, Aerospace series - Fibres and cables, optical, aircraft use - Test methods - Part 516: Severe cable bend test

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 3745-516

March 2017

ICS 49.090

Supersedes EN 3745-516:2012

English Version

Aerospace series - Fibres and cables, optical, aircraft use - Test methods - Part 516: Severe cable bend test

Série aérospatiale - Fibres et câbles optiques à usage aéronautique - Méthodes d'essais - Partie 516: Essai de courbure sévère

Luft- und Raumfahrt - Faseroptische Leitungen für Luftfahrzeuge - Prüfverfahren - Teil 516: Schwere Kabelbiegeprüfung

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European foreword

This document (EN 3745-516:2017) 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of an identical text or by endorsement, at the latest by September 2017, and conflicting national standards shall be withdrawn at the latest by September 2017.

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1 Scope

This European Standard specifies a method of checking the break resistance and attenuation variation recovery of an optical cable subjected to severe bending under load.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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, A*erospace 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 Preparation of specimens

If not yet at standard test conditions, the specimens shall be subjected to standard test conditions and stabilized at these conditions for 24 h as defined in EN 2591-100.

— Type and length of fibre or cable.
— Load mass M to be applied to ensure contact between the cable and the edge of the metal bar.
— Radius(s) *R* of the bending edge.
— Number of turns *N* to rotate the cable 180° after each bend test.

4 Apparatus

— A Light Launch System (LLS) as defined in EN 2591-100.
— A Light Detection System (LDS) as defined in EN 2591-100.
— A flat metal bar with radius edge and loads required by the applicable product standard.

A typical arrangement is shown in Figure 1.

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