



BSI Standards Publication

Aerospace series - Elements of electrical and optical connection - Test methods

Part 326: Fire immersion test

National foreword

This British Standard is the UK implementation of EN 2591-326:2018.

The UK participation in its preparation was entrusted to Technical Committee ACE/6, Aerospace avionic electrical and fibre optic technology.

A list of organizations represented on this committee can be obtained on request to its secretary.

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English Version

Aerospace series - Elements of electrical and optical connection - Test methods - Part 326: Fire immersion test

Série aérospatiale - Organes de connexion électrique et optique - Méthodes d'essais - Partie 326 : Immersion au feu

Luft- und Raumfahrt - Elektrische und optische Verbindungselemente - Prüfverfahren - Teil 326: Feuereintauchtest

This European Standard was approved by CEN on 13 May 2018.

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European foreword

This document (EN 2591-326:2018) 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of an identical text or by endorsement, at the latest by February 2019, and conflicting national standards shall be withdrawn at the latest by February 2019.

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.

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1 Scope

This European Standard specifies a method of determining a component's resistance to a liquid fuelled fire and the elements of connection.

It shall be used together with EN 2591-100.

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 2234, *Aerospace series — Cable, electrical, fire resistant — Technical specification*

EN 2591-100, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 100: General*

EN 2591-202, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 202: Contact resistance at rated current*

EN 2997 (all parts), *Aerospace series — Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures – 65 °C to 175 °C continuous, 200 °C continuous, 260 °C peak*

EN 3645 (all parts), *Aerospace series — Connectors, electrical, circular, scoop proof, triple start threaded coupling, operating temperature 175 °C or 200 °C continuous*

EN 3660 (all parts), *Aerospace series — Cable outlet accessories for circular and rectangular electrical and optical connectors*

ISO 2685, *Aircraft — Environmental test procedure for airborne equipment — Resistance to fire in designated fire zones*

3 Terms and definitions

No terms and definitions are listed in this document.

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

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

4 Test method

EN 2591-326 is composed of two tests on 2 sample groups:

- 1) Liquid fuelled fire immersion test:

The purpose of this test is to verify the ability of a couple of connectors installed in the same area, to sustain a fire for at least 5 min, without electrical discontinuity.