

STN	Letectvo a kozmonautika Prvky elektrických a optických spojení Skúšobné metódy Časť 100: Všeobecne	STN EN 2591-100 31 1810
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Aerospace series - Elements of electrical and optical connection - Test methods - Part 100: General

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 01/19

Obsahuje: EN 2591-100:2018

Oznámením tejto normy sa ruší
STN EN 2591-100 (31 1810) z mája 2006

127876

EUROPEAN STANDARD

EN 2591-100

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 2018

ICS 49.060; 49.090

Supersedes EN 2591-100:2005

English Version

Aerospace series - Elements of electrical and optical connection - Test methods - Part 100: General

Série aérospatiale - Organes de connexion électrique et optique - Méthodes d'essais - Partie 100 : Généralités

Luft- und Raumfahrt - Elektrische und optische Verbindungselemente - Prüfverfahren - Teil 100: Allgemeines

This European Standard was approved by CEN on 24 December 2017.

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EN 2591-100:2018 (E)

Contents		Page
European foreword		3
1	Scope.....	4
2	Normative references.....	4
3	Terms and definitions	5
4	Standard test conditions	8
5	Test main requirements	9
5.1	Fibre end preparation.....	9
5.2	Light Launch System (LLS).....	13
6	List of test methods	20
7	Test report.....	25

European foreword

This document (EN 2591-100:2018) 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of an identical text or by endorsement, at the latest by February 2019, and conflicting national standards shall be withdrawn at the latest by February 2019.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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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, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.

EN 2591-100:2018 (E)**1 Scope**

This European Standard specifies the general requirements for the methods of testing elements of electrical, optical and data transmission system connections used in aerospace applications.

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 2083, *Aerospace series — Copper or copper alloy conductors for electrical cables — Product standard*

EN 2084, *Aerospace series — Cables, electrical, general purpose, with conductors in copper or copper alloy — Technical specification*

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

EN 2346, *Aerospace series — Fire resistant electrical cables — Dimensions, conductor resistance and mass* ¹⁾

EN 2591 (all parts), *Aerospace series — Elements of electrical and optical connection — Test methods*

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

EN 4641-100, *Aerospace series — Cables, optical 125 µm diameter cladding — Part 100: Tight structure 62,5/125 µm core GI fibre 1,8 mm outside diameter — Product standard*

EN 60512-1, *Connectors for electronic equipment — Tests and measurements — Part 1: General (IEC 60512-1:2001)*

EN 60793-1-43, *Optical fibres — Part 1-43: Measurement methods and test procedures — Numerical aperture measurement*

EN 60793-1-45, *Optical fibres — Part 1-45: Measurement methods and test procedures — Mode field diameter*

TR 4257, *Aerospace series — Elements of electrical and optical connection — Relationship between the numbering systems for parts of EN 2591* ²⁾

IEC 60050-581, *International Electrotechnical Vocabulary — Part 581: Electromechanical components for electronic equipment* ³⁾

1) Published as ASD-STAN Prestandard at the date of publication of this standard. (<http://www.asd-stan.org/>)

2) Published as ASD-STAN Technical Report at the date of publication of this standard. (<http://www.asd-stan.org/>)

3) Published by: IEC Commission Electrotechnique Internationale <http://www.iec.ch/>

IEC 61300-3-35, *Fibre optic interconnecting devices and passive components — Basic test and measurement procedures — Part 3-35: Examinations and measurements — Visual inspection of fibre optic connectors and fibre-stub transceivers* ³⁾

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