

Aerospace series - Cable, electrical, for digital data
transmission - Part 001: Technical specification

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 3375-001:2022 sisaldab Euroopa standardi EN 3375-001:2022 ingliskeelset teksti.	This Estonian standard EVS-EN 3375-001:2022 consists of the English text of the European standard EN 3375-001:2022.
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 and Accreditation.
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English Version

**Aerospace series - Cable, electrical, for digital data
transmission - Part 001: Technical specification**

Série aérospatiale - Câbles électriques pour
transmission de données numériques - Partie 001 :
Spécification technique

Luft- und Raumfahrt - Elektrische Leitungen für
Digitaldatenübertragungen - Teil 001: Technische
Lieferbedingungen

This European Standard was approved by CEN on 8 May 2022.

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-CENELEC 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-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 3375-001:2022) 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 document has received the approval of the National Associations and the Official Services of the member countries of ASD-STAN, prior to its presentation to CEN.

This document shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by April 2023, and conflicting national standards shall be withdrawn at the latest by April 2023.

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.

This document supersedes EN 3375-001 :2018.

The main changes with respect to the previous edition are listed in the following table.

Table 1 — Main changes introduced

prEN/EN number	Edition	Publication date	Modifications
prEN 3375-001	1	10/2005	-
	2	07/2016	-
	3	05/2021	<u>New proposal is needed to revise the Table 2 in order to clarify and update test applicability between FAI, qualification, periodic, each delivery columns (i.e. toxicity, smoke, flammability tests shall be applicable during qualification).</u>

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

1 Scope

This document specifies the required characteristics, test methods, qualification and acceptance conditions of signal data transmission electrical cables.

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 2235, *Aerospace series — Single and multicore electrical cables, screened and jacketed — Technical specification*¹⁾

EN 3475-*, *Aerospace series — Cables, electrical, aircraft use — Test methods*

EN 3838, *Aerospace series — Requirements and tests on user-applied markings on aircraft electrical cables*

EN 4434, *Aerospace series — Copper or copper alloy lightweight conductors for electrical cables — Product standard (Normal and tight tolerances)*

ISO 2574, *Aircraft — Electrical cables — Identification marking*²⁾

ISO 8815, *Aircraft — Electrical cables and cable harnesses — Vocabulary*²⁾

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 8815 and EN 3475-100 apply.

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

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

4 Materials and construction of cables

4.1 General

The composition, dimensions and mass of the cable shall conform to the characteristics below, as well as the values specified in the product standards.

The individual cores shall conform to EN 2083 or EN 4434, EN 2084 and the product standards.

¹⁾ Published as ASD-STAN Standard at the date of publication of this document by AeroSpace and Defence industries Association of Europe — Standardization (ASD-STAN), <https://www.asd-stan.org/>.

* All parts quoted in this document.

²⁾ Published by: ISO International Organization for Standardization <http://www.iso.ch/>.