

Aerospace series - Cable, electrical for digital data transmission - Part 011: Single braid - Star Quad 100 ohms - Lightweight - Type KL - Product standard

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 3375-011:2022 sisaldab Euroopa standardi EN 3375-011:2022 ingliskeelset teksti.	This Estonian standard EVS-EN 3375-011:2022 consists of the English text of the European standard EN 3375-011:2022.
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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ICS 49.060, 49.090

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EUROPEAN STANDARD

EN 3375-011

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2022

ICS 49.060; 49.090

Supersedes EN 3375-011:2017

English Version

**Aerospace series - Cable, electrical for digital data
transmission - Part 011: Single braid - Star Quad 100 ohms
- Lightweight - Type KL - Product standard**

Série aérospatiale - Câbles électriques pour
transmission de données numériques - Partie 011 :
Simple tresse - Quarte en étoile 100 ohms - Allégée -
Type KL - Norme de produit

Luft- und Raumfahrt - Elektrische Leitungen für
Digitaldatenübertragungen - Teil 011: Einfach
geschirmt - Sternvierer 100 Ohm - Leichtbauweise -
Typ KL - Produktnorm

This European Standard was approved by CEN on 2 October 2022.

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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.

CEN members are the national standards bodies of 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 United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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European foreword

This document (EN 3375-011:2022) 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 June 2023, and conflicting national standards shall be withdrawn at the latest by June 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 3375-011:2017.

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

Table 1 — Main changes to previous edition

prEN/EN number	Edition	Publication date	Modifications
EN 3375-011	1	01/2013	—
	2	11/2014	—
	3	12/2021	New proposal to revise the maximum weight of the product from 32 g/m to 32,4 g/m due to return of experience and design improvement on product revision to get better margin to kink effect at low bend radius.

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 dimensions, tolerances, required characteristics and the mass of an AWG 24 shielded quad cable, type KL, intended for high speed (100 Mbit/s) full duplex Ethernet networks.

Linked to this particular application, the operating temperatures of the cable are between $-65\text{ }^{\circ}\text{C}$ and $125\text{ }^{\circ}\text{C}$.

This cable is laser markable, this marking satisfies the requirements of EN 3838.

The impedance is $100\ \Omega \pm 15\ \Omega$.

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 3375-001, *Aerospace series — Cable, electrical, for digital data transmission — Part 001: Technical specification*)¹

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

3 Terms and definitions

For the purposes of this document, the terms and definitions given in 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 Required characteristics

4.1 Configuration, dimension, tolerances and mass

The configuration, dimensions and tolerances shall be in accordance with Figure 1 and Table 2.

Mass: $\leq 32,4\text{ g/m}$.

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.