

Aerospace series - Cables, optical 125 μm diameter cladding - Part 301: Tight structure 50/125 μm GI, fibre nominal 1,8 mm, outside diameter - Product standard

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 4641-301:2022 sisaldab Euroopa standardi EN 4641-301:2022 ingliskeelset teksti.	This Estonian standard EVS-EN 4641-301:2022 consists of the English text of the European standard EN 4641-301:2022.
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.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 23.03.2022.	Date of Availability of the European standard is 23.03.2022.
Standard on kättesaadav Eesti Standardimis- ja Akrediteerimiskeskusest.	The standard is available from the Estonian Centre for Standardisation and Accreditation.

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ICS 49.090

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EUROPEAN STANDARD

EN 4641-301

NORME EUROPÉENNE

EUROPÄISCHE NORM

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ICS 49.090

Supersedes EN 4641-301:2011

English Version

**Aerospace series - Cables, optical 125 μm diameter
cladding - Part 301: Tight structure 50/125 μm GI, fibre
nominal 1,8 mm, outside diameter - Product standard**

Série aérospatiale - Câbles, optiques, diamètre
extérieur de la gaine optique 125 μm - Partie 301 :
Câble à structure serrée, fibre à gradient d'indice
50/125 μm , diamètre extérieur 1,8 mm - Norme de
produit

Luft- und Raumfahrt - Lichtwellenleiterkabel,
Claddingdurchmesser 125 μm - Teil 301:
Festaderaufbau GI 50/125 μm , Faser
Kabelaußendurchmesser 1,8 mm - Produktnorm

This European Standard was approved by CEN on 25 January 2021.

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 4641-301:2022) 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, 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 September 2022, and conflicting national standards shall be withdrawn at the latest by September 2022.

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.

This document supersedes EN 4641-301:2011.

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, Turkey and the United Kingdom.

1 Scope

This document specifies the general characteristics, conditions for qualification, acceptance and quality assurance for a fibre optic cable with a 50/125 μm Graded Index fibre core, 1,8 mm outside diameter for non pull-proof contact designs.

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 2424, *Aerospace series — Marking of aerospace products*

EN 3475-601, *Aerospace series — Cables, electrical, aircraft use — Test methods — Part 601: Smoke density*

EN 3745-*, *Aerospace series — Fibres and cables, optical, aircraft use — Test methods*

EN 3909, *Aerospace series — Test fluids and test methods for electrical and optical components and sub-assemblies*

EN 4641-001, *Aerospace series — Cables, Optical, 125 μm diameter cladding — Part 001: Technical specification*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 3745-100 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/>

* All parts quoted in this document.