



NSAI
Standards

Irish Standard
I.S. EN 4641-100:2015

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

I.S. EN 4641-100:2015

Incorporating amendments/corrigenda/National Annexes issued since publication:

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National Foreword

I.S. EN 4641-100:2015 is the adopted Irish version of the European Document EN 4641-100:2015, 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

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EUROPEAN STANDARD

EN 4641-100

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 2015

ICS 49.090

English Version

**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**

Série aérospatiale - Câble, optique, diamètre extérieur
de la gaine optique 125 μm - Partie 100 : Câble à
structure serrée fibre à gradient d'indice cœur
62,5/125 μm , diamètre extérieur 1,8 mm - Norme de
produit

Luft- und Raumfahrt - Lichtwellenleiterkabel,
Manteldurchmesser 125 μm - Teil 100: Festaderaufbau
GI 62,5/125 μm Faser Kabeldurchmesser 1,8 mm -
Produktnorm

This European Standard was approved by CEN on 21 June 2014.

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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European foreword

This document (EN 4641-100:2015) 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 European 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 March 2016, and conflicting national standards shall be withdrawn at the latest by March 2016.

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.

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, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

EN 4641-100:2015 (E)**1 Scope**

This European Standard specifies the general characteristics, conditions for qualification, acceptance and quality assurance for fibre optic cable: 4641-100.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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 2812, *Aerospace series — Stripping of electric cables*

EN 3745 (all parts), *Aerospace series — Fibres and cables, optical, aircraft use — Test methods*

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

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

EN 9133, *Aerospace series — Quality management systems — Qualification procedure for aerospace standard parts*

TR 6058, *Aerospace series — Cable code identification list*¹⁾

TIA/EIA-455-30-B, *FOTP-30 Frequency Domain Measurement of Multimode*²⁾

TIA/EIA-455-175-B, *FOTP175 — Chromatic Dispersion Measurement of Single-mode Optical Fibers by the Differential Phase Shift Method*²⁾

ANSI/EIA 4920000-A, *Generic Specification for Optical Waveguide Fibers*²⁾

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

2) Published by: National (US) American National Standard Institute. <http://www.ansi.org/>

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