Irish Standard
I.S. EN IEC 61756-1:2020

Fibre optic interconnecting devices and passive components - Interface standard for fibre management systems - Part 1: General and guidance

I.S. EN IEC 61756-1:2020

Incorporating amendments/corrigenda/National Annexes issued since publication:

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National Foreword

I.S. EN IEC 61756-1:2020 is the adopted Irish version of the European Document EN IEC 61756-1:2020, Fibre optic interconnecting devices and passive components - Interface standard for fibre management systems - Part 1: General and guidance

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN IEC 61756-1

March 2020

ICS 33.180.01

Supersedes EN 61756-1:2006 and all of its amendments and corrigenda (if any)

English Version

Fibre optic interconnecting devices and passive components - Interface standard for fibre management systems - Part 1: General and guidance (IEC 61756-1:2019)

Dispositifs d'interconnexion et composants passifs fibroniques - Norme d'interface pour les systèmes de gestion de fibres - Partie 1: Généralités et recommandations (IEC 61756-1:2019)

Lichtwellenleiter - Verbindungselemente und passive Bauteile - Schnittstellennorm für Einzelfasermanagementsysteme - Teil 1: Allgemeines und Leitfaden (IEC 61756-1:2019)

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

European foreword

The text of document 86B/4228/FDIS, future edition 2 of IEC 61756-1, prepared by SC 86B "Fibre optic interconnecting devices and passive components" of IEC/TC 86 "Fibre optics" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 61756-1:2020.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2020-10-01
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2021-01-01

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The text of the International Standard IEC 61756-1:2019 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60794-2	NOTE	Harmonized as EN 60794-2
IEC 60794-3	NOTE	Harmonized as EN 60794-3
IEC 60874-1:2011	NOTE	Harmonized as EN 60874-1:2012 (not modified)
IEC 61753 (series)	NOTE	Harmonized as EN 61753 (series)
IEC 62134-1	NOTE	Harmonized as EN 62134-1

Annex ZA
(normative)

Normative references to international publications with their corresponding European publications

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.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

Publication	Year	Title	EN/HD	Year
IEC 60793-2-10	-	Optical fibres - Part 2-10: Product specifications - Sectional specification for category A1 multimode fibres	EN IEC 60793-2-10	-
IEC 60793-2-50	-	Optical fibres - Part 2-50: Product specifications - Sectional specification for class B single-mode fibres	EN IEC 60793-2-50	-

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IEC 61756-1

Edition 2.0 2019-11

INTERNATIONAL STANDARD

NORME INTERNATIONALE

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Fibre optic interconnecting devices and passive components – Interface standard for fibre management systems – Part 1: General and guidance

Dispositifs d'interconnexion et composants passifs fibroniques – Norme d'interface pour les systèmes de gestion de fibres – Partie 1: Généralités et recommandations

IEC 61756-1:2019-11 (en-fr)

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IEC 61756-1

Edition 2.0 2019-11

INTERNATIONAL STANDARD

NORME INTERNATIONALE

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Fibre optic interconnecting devices and passive components – Interface standard for fibre management systems – Part 1: General and guidance

Dispositifs d'interconnexion et composants passifs fibroniques – Norme d'interface pour les systèmes de gestion de fibres – Partie 1: Généralités et recommandations

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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CONTENTS

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS – INTERFACE STANDARD FOR FIBRE MANAGEMENT SYSTEMS –

Part 1: General and guidance

FOREWORD

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International Standard IEC 61756-1 has been prepared by subcommittee 86B: Fibre optic interconnecting devices and passive components, of IEC technical committee 86: Fibre optics.

This second edition cancels and replaces the first edition published in 2006. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

a) addition of figures to show the interface between protective housing and fibre management system;
b) addition of definitions for protective housing, closure, box, street cabinets and optical distribution frame modules;
c) addition of table with dimensions of fusion splice protectors and mechanical splices;
d) addition of method to identify the minimum bending radius for stored fibres;

e) addition of clause for other factors relevant to fibre management systems;

f) addition of annex A for example of calculating the minimum bending radius of stored fibres in a fibre management system.

The text of this International Standard is based on the following documents:

FDIS	Report on voting
86B/4228/FDIS	86B/4240/RVD

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "http://webstore.iec.ch" in the data related to the specific document. At this date, the document will be

- reconfirmed,
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FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS – INTERFACE STANDARD FOR FIBRE MANAGEMENT SYSTEMS –

Part 1: General and guidance

1 Scope

This part of IEC 61756 covers general information on fibre management system interfaces. It includes the definitions and rules under which a fibre management system interface is created and it provides also criteria to identify the minimum bending radius for stored fibres.

This document allows both single-mode and multimode fibre to be used.

Liquid, gas or dust sealing requirements at the cable entry area or cable element ending are not covered in this document.

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.

IEC 60793-2-10, *Optical fibres - Part 2-10: Product specifications - Sectional specification for category A1 multimode fibres*

IEC 60793-2-50, *Optical fibres - Part 2-50: Product specifications - Sectional specification for class B single-mode fibres*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

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

3.1 Fibre management related definitions

3.1.1
distribution element
element for a fibre management system providing fibre branching, holding and distribution function

3.1.2
fibre management system
system to control, protect and store splices, connectors, passive optical components and fibres from incoming to outgoing cables