

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE



**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**





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## 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**

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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.

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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.

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

- 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