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General rules of optical fibers

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In the event of any doubts arising as to the contents,
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Contents

	Page
Introduction	1
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Classification	2
4.1 General requirements	2
4.2 Multimode optical fibers	3
4.3 Single-mode optical fibers	5
4.4 Intraconnection optical fibers	6
4.5 Polarization-maintaining optical fibers	7
5 Type name	8
5.1 Composition of type name	8
5.2 Symbols	9
6 Designation of products	12
7 Test methods	13
8 Rounding of numbers	13
9 Packaging	14
10 Marking	14
10.1 Marking on product	14
10.2 Marking on packaging	14
Annex JA (informative) Terms related to optical fibers	15
Annex JB (informative) Multimode optical fibers	22
Annex JC (informative) Single-mode optical fibers	24
Annex JD (informative) Comparison table between JIS and corresponding International Standard	25

Foreword

This Japanese Industrial Standard has been revised by the Minister of Economy, Trade and Industry based on the provision of Article 14, paragraph (1) of the Industrial Standardization Act applied mutatis mutandis pursuant to the provision of Article 16 of the said Act in response to a proposal for revision of Japanese Industrial Standard with a draft being attached, submitted by Japanese Standards Association (JSA), an accredited standards development organization. This edition replaces the previous edition (**JIS C 6820** : 2018), which has been technically revised.

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General rules of optical fibers

Introduction

This Japanese Industrial Standard has been prepared based on **IEC 60793-1-1** : 2022, Edition 5, and **IEC 60793-2** : 2019, Edition 9, with some modifications of the technical contents to meet the specific needs in Japan, including adoption of categorization according to the material of multimode optical fibers and type names of optical fibers used in Japan that are different from the said **IEC** Standards, and addition of requirement items not included in the said **IEC** Standards.

Annexes JA to JC are unique to **JIS** and not given in the corresponding International Standard. The vertical lines on both sides and dotted underlines indicate changes from the corresponding International Standard. A list of modifications with the explanations is given in Annex JD.

1 Scope

This Standard specifies general requirements for optical fibers, jacketed optical fibers and optical fiber codes that are intended for optical transmission.

NOTE The International Standards corresponding to this Standard and the symbol of degree of correspondence are as follows.

IEC 60793-1-1 : 2022 *Optical fibres — Part 1-1 : Measurement methods and test procedures — General and guidance*

IEC 60793-2 : 2019 *Optical fibres — Part 2 : Product specifications — General* (Overall evaluation: MOD)

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standards and **JIS** are IDT (identical), MOD (modified), and NEQ (not equivalent) according to **ISO/IEC Guide 21-1**.

2 Normative references

There are no normative references in this Standard.

3 Terms and definitions

For the purpose of this Standard, the following terms and definitions apply.

Terms and definitions related to construction, transmission properties and measurement of optical fibers are given in Annex JA.

3.1

optical fiber

fiber made of derivatives which transmits light