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**Test methods for bandwidth of multimode
optical fibers**

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In the event of any doubts arising as to the contents,
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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 6824 : 2009**), which has been technically revised.

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Test methods for bandwidth of multimode optical fibers

Introduction

This Japanese Industrial Standard has been prepared based on **IEC 60793-1-41 : 2024**, Edition 4, with some modifications of the technical contents to align with the characterization test methods used in Japan.

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 JA.

1 Scope

This Standard specifies test methods for determining and measuring the modal bandwidth of silica glass multimode fibers, multi-component multimode fibers, plastic cladding multimode fibers and all plastic multimode fibers. This Standard specifies the following three test methods (see Clause 4):

- Method A — Time domain (pulse distortion) measurement
- Method B — Frequency-domain measurement
- Method C — Overfilled launch modal bandwidth calculated from differential mode delay (OMBc)

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

IEC 60793-1-41 : 2024 *Optical fibres — Part 1-41: Measurement methods and test procedures — Bandwidth (MOD)*

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

2 Normative references

Part or all of the provisions of the following standards, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JIS C 6820..... *General rules of optical fibers*

NOTE..... Corresponding International Standard: IEC 60793-1-1 *Optical fibres — Part 1-1: Measurement methods and test procedures — General and guidance*, and IEC 60793-2 *Optical fibres — Part 2: Product specifications — General*

JIS C 6822 *Test methods for structural parameters of optical fibers — Dimensional characteristics*

NOTE Normative reference in the corresponding International Standard: IEC 60793-1-20 *Optical fibres — Part 1-20: Measurement methods and test procedures — Fibre geometry*