JAPANESE INDUSTRIAL STANDARD

Translated and Published by
Japanese Standards Association

JIS C 5916-3 : 2025

(JSA)

Fiber optic chromatic dispersion compensator using single-mode dispersion compensating fiber

ICS 33.180.20

Reference number: JIS C 5916-3 : 2025 (E)

Date of Establishment: 2013-11-20

Date of Revision: 2025-08-20

Date of Public Notice in Official Gazette: 2025-08-20

Investigated by: JIS Development Committee on Electronics

JIS C 5916-3 : 2025, First English edition published in 2026-06

Translated and published by: Japanese Standards Association
Mita Avanti, 3-11-28, Mita, Minato-ku, Tokyo, 108-0073 JAPAN

In the event of any doubts arising as to the contents,
the original JIS is to be the final authority.

Printed in Japan SW

Contents

Page

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 5916-3** : 2013), which has been technically revised.

Attention is drawn to the possibility that some parts of this Standard may conflict with patent rights, published patent application or utility model rights. The relevant Minister is not responsible for identifying any of such patent rights, published patent application or utility model rights.

Fiber optic chromatic dispersion compensator using single-mode dispersion compensating fiber

Introduction

This Japanese Industrial Standard has been prepared based on **IEC 61753-141-2** : 2011, Edition 1, with some modifications of the technical contents.

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 requirements for the ratings, optical properties, environmental resistance, durability, marking, packaging, and safety of passive chromatic dispersion compensators using single-mode dispersion compensating fibre (hereafter referred to as "fibre optic chromatic dispersion compensators") used under indoor environmental conditions for optical transmission using single-mode optical fibre. The fibre optic chromatic dispersion compensators for single-channel specified in this Standard are applicable to optical transmission using type SSMA, type SSMB, and type SSMD single-mode optical fibres specified in **JIS C 6835**. The fibre optic chromatic dispersion compensators for C-band wavelength division multiplexing (WDM) and L-band WDM are applicable to optical transmission using type SSMA single-mode optical fibres specified in **JIS C 6835**.

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

IEC 61753-141-2 : 2011 *Fibre optic interconnecting devices and passive components—Performance standard—Part 141-2: Fibre optic passive chromatic dispersion compensator using single-mode dispersion compensating fibre for category C—Controlled environments* (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 5916 *General rules of dispersion compensators for fiber optic transmission*

NOTE Normative reference in the corresponding International Standard: IEC 61978-1 *Fibre optic interconnecting devices and passive components — Fibre optic passive chromatic dispersion compensators — Part 1: Generic*