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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 14733.12-2008

Replacing GB/T 14733.12-1993

Terminology for telecommunication -- Optical communication

电信术语 光纤通信

(English Translation)

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Foreword

GB/T 14733 "Telecommunication term" divided into the following 12 sections.

- Part 1. Telecommunications, channels and networks;
- Part 2. Transmission lines and waveguides;
- Part 3. Reliability, maintainability and quality of service;
- Part 4. switching technology;
- Part 5. Using the discrete signals, telegraphy, facsimile and data communications;
- Part 6. space radio communication;
- Part 7. oscillations, signals and related devices;
- Part 8. Telephone;
- Part 9. radio wave propagation;
- Part 10. antenna;
- Part 11. Transfer;
- Part 12. optical fiber communication.

This section GB/T 14733 Part 12, identical with IEC 60050-731 "International Electrotechnical Vocabulary Chapter 731. Fibre letter". Entry terms and IEC 60050-731:1991 consistent.

This part is GB/T 14733.12-1993 "Optical Fiber Communication Telecommunication term" amendment.

This Part replaces GB/T 14733.12-1993 "Terminology for telecommunications fiber optic communications." Section compared with the GB/T 14733.12-1993 main change this as follows.

- Increased foreword by deleting the additional instructions;
- Modified 50 synonymous with the term, notes 84 and 36 to define the terms of terminology;
- An increase of 15 synonymous terms, 12 terms and 10 refused wording term notes;
- Remove the three synonymous terms, notes two terms;
- Increasing the symbol index;
- The preparation of the format has been modified;
- In addition, with the other part of the standard in this part of the coordination, consequential amendments to the 13 terms and their definitions.

This part is proposed by the Ministry of Industry and Information Technology.

This part of the jurisdiction of the China Communications Standards Association.

This section is drafted. Wuhan Research Institute of Posts and Telecommunications.

1 Scope

This section provides optical fiber communication related terms and their definitions. Including general concepts, fiber structure and optical properties, especially the spread of Sex, cable, connectors and couplers, a light source and a light detector, terminology and other technical aspects of the measurement system.

This section applies to a range of optical communication technology.

2.1 General Concepts

731-01-01

a) energy in the form of electromagnetic waves diverge from one source to the phenomenon of space.

b) energy in the form of electromagnetic waves propagate through space.

731-01-02

731-01-03

Wavelengths between X-rays and radio waves, electromagnetic radiation in the wavelength of about 1nm ~ 1mm between.

731-01-04

Human visual perception can be optical radiation.

Note 1: It covers nominally 380nm ~ 800nm wavelength range.

Note 2: In the laser and optical communications field, habits, and in fact, the use of the term has expanded to a wider range of electromagnetic waves, including visible light can be substantially optically Range electromagnetic technology to deal with.

731-01-05

Longer wavelength than visible radiation optical radiation, the wavelength of about 780nm ~ 1mm from optical radiation.

731-01-06

A shorter wavelength than visible light emitted radiation, the wavelength of light radiated from about 1nm ~ 400nm of.

731-01-07

Wavelength optical radiation distribution area.

731-01-08

a) theoretically a single frequency or a single wavelength of radiation.

b) radiation is actually very narrow spectral width can press a single wavelength single frequency or treated.

GB/T 14733.12-2008/IEC 60050 (731).1991