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

GB/T 17570-2019

Replacing GB/T 17570-1998

General specification for optical fibre fusion splicers

光纤熔接机通用规范

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009. This standard replaces GB/T 17570-1998 "General specification for optical fiber fusion splicer", major technical changes compared with GB/T 17570-1998 as follows:

- Revised the scope of application of the standard (see Chapter 1, Chapter 1 of the.1998 edition);
- Added some normative references (see Chapter 2);
- Revised the terms and definitions of "multimode fiber, standard single mode fiber, special fiber" (see 3.1, 3.2, 3.7,.1998 version 3.2, 3.1, 3.3);
- Added "dispersion-shifted fiber, cut-off wavelength shift fiber, non-zero dispersion-shifted fiber, bend-insensitive fiber, ribbon fiber, back Terms and definitions for wave loss, splice time, heating time, fiber image magnification, tensile test, electrode life and end angle (See 3.3~3.6, 3.8, 3.12~3.18);
- Revised the product classification of fiber fusion splicers (see Chapter 4, Chapter 4 of the.1998 edition);
- Added "splicing, heating, parameter setting and other functions" (see 5.4);
- Increased "return loss, welding time, heating time, fiber image magnification, electrode life, number of work cycles" performance Sexual requirements (see 5.5.5~5.5.10);
- Added "return loss, welding time, heating time, fiber image magnification, electrode life, number of work cycles" test side Law (see 6.5.7~6.5.12);
- Added test method for "safety test" (see 6.6);
- Increased the test method for the "package transport test" (see 6.8);
- Increased the "power consumption" test method (see 6.10.2). Please note that some of the contents of this document may involve patents. The issuing organization of this document is not responsible for identifying these patents. This standard was proposed by

the Ministry of Industry and Information Technology of the People's Republic of China. This standard is under the jurisdiction of the National Standardization Technical Committee for Electronic Measuring Instruments (SAC/TC153). This standard was drafted. The 41st Research Institute of China Electronics Technology Group Corporation, Nanjing Jilong Optical Fiber Communication Co., Ltd. The main drafters of this standard. Yang Xiaoguang, Tao Longdi, Shang Shoufeng, Liu Zhen, Zhang Wei, He Chun, Li Xianhua, Wang Yun, Wu Chao. The previous versions of the standards replaced by this standard are.

---GB/T 17570-1998. General specification for optical fiber fusion splicers

1 Scope

GB/T 17570-2019 is the Chinese national standard on general specification for optical fibre fusion splicers, in the field of telecommunications and audio-video engineering. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 30 August 2019 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 March 2020. Classification: ICS 33.180.20, CCS L23. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the terms and definitions of fiber fusion splicers, product classification, requirements, test methods, quality inspection rules and signs, packaging, and transportation. Requirements for transportation and storage. This standard is applicable to optical fiber fusion splicers (hereinafter referred to as fusion splicers) for welding quartz glass fibers.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article. Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 191 packaging storage and transportation icon

GB/T 2423.21-2008 Environmental testing of electric and electronic products - Part 2. Test method Test M. Low pressure

GB 4824 Industrial, Scientific and Medical (ISM) Radio Frequency Equipment Harassment Characteristics Limits and Measurement Methods

GB/T 6587-2012 General specification for electronic measuring instruments

GB/T 6592-2010 Electrical and electronic measuring equipment performance representation

GB/T 9771.1-2008 single-mode optical fibres for communication - Part 1

GB/T 9771.2-2008 single-mode optical fibres for communication - Part 2

GB/T 9771.4-2008 single-mode optical fibres for communication - Part 4

GB/T 9771.5-2008 single-mode optical fibres for communication - Part 5

GB/T 9771.7-2012 single-mode optical fibres for communication - Part 7

GB/T 12357.1-2015 Multimode optical fibres for communication - Part 1

GB/T 15972.31-2008 Specification for optical fibre test methods - Part 31. Methods and test procedures for mechanical properties - Resistance Tensile strength Optical fibres - Test methods - Part 40. Test methods and tests for transmission and optical properties Program

GB/T 16511-1996 Random documents for electrical and electronic measuring equipment

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 Multimode fiber multimodeopticalfibre Multiple modes of fiber can be transmitted at a given operating wavelength. GB/T 17570-2019 (General specification for optical fiber fusion splicers) ICS

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