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

GB/T 29233-2012

**Single mode optical fibre telecommunication cables for outdoor
duct, directly buried, and lashed aerial application**

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

The revised standards adopted IEC 60794-3-11.2010 "Optical fiber cables - Part 3-11. Outdoor cables pipeline, buried and non-self-supporting frame

Empty communication singlemode fiber product specification. "

This standard and IEC 60794-3-11.2010, compared with more adjustment in the structure, listed in Appendix A of this standard and IEC 60794-

3-11. reg number 2010 control list.

This standard and IEC 60794-3-11.2010 compared to the existence of technical differences, these differences involve provisions have been adopted in its outer margin

Vertical single line blank position (|) were marked. Appendix B gives a list of corresponding technical differences and their causes.

This standard also made the following editorial changes.

--- For ease of use, the IEC 60794-3-11.2010 reference standard IEC /T R62000 increase this standard Annex E;

--- Increase the informative appendix F "cable armouring Design Guidelines";

--- Increase the informative Appendix G "cable avoid attack the protective layer of design guidelines."

Please note that some of the content of this document may involve patents. Release mechanism of the present document does not assume responsibility for the identification of these patents.

The standard proposed by the Ministry of Industry and Information Technology of the People's Republic of China.

The standard by the China Communications Standards Association.

This standard was drafted. Datang Telecom Technology & Industry Group, Beijing Institute of Telecommunications and beneficially through Science and Technology Co., Ltd., Wuhan Posts and Telecommunications

Academy of Sciences, Optical Fiber and Cable Co., Ltd.

1 Scope

This standard specifies the pipeline, buried and non-self-supporting aerial laying structure and material of a single-mode fiber optic cable outdoor communications, performance requirements, test

Methods, packaging and transportation.

This standard applies to pipes, buried or aerial self-supporting manner laid using single-mode fiber optic outdoor communication.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein

Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 2951.11-2008 cable and the cable Common test methods for insulating and sheathing materials - Part 11. General test side

Law --- --- Measurement of thickness and overall dimensions of mechanical tests (IEC 60811-1-1.2001, IDT)

GB/T 6995.2 wire and cable identification methods - Part 2. Standard colors

GB/T 7424.1-2003 total cable specification - Part 1. General (IEC 60794-1-1.2001, MOD)

Basic optical cable test method. GB/T 7424.2-2008 cable Part 2 Generic specification (IEC 60794-1-2.2003, MOD)

GB/T 7424.3-2003 cable Part 3. Sectional specification - Outdoor cables (IEC 60794-3.2001, MOD)

GB/T 9771 (all parts) with a single-mode optical fiber communication

GB/T 13993.2-2002 communications cable series Part 2. Outdoor optical fiber core network

GB/T 13993.4-2002 communications cable series - Part 4. Outdoor optical fiber access networks

GB/T 15972-2008 (all parts) optical fiber test methods [IEC 60793-1 (all parts)]

Gases evolved during combustion of GB/T 17650.2-1998 materials from cables - Test methods - Part 2. Measurement

PH value and conductivity measurement of acidity of gases (idt IEC 60754-2.1991)

GB/T 17651.1-1998 Measurement of smoke density of cables burning under defined conditions - Part 1. Test apparatus (idt

IEC 61034-1.1997)

GB/T 17651.2-1998 of cables burning under defined conditions Measurement of smoke density - Part 2. Test procedure and requirements

(Idt IEC 61034-2.1997)

GB/T 18380.11-2008 and optical fiber cables under fire conditions - Test - Part 11. single insulated wire and cable fire

Vertical flame spread test test equipment (IEC 60332-1-1.2004, IDT)

GB/T 18380.12-2008 burning test and optical fiber cables under fire conditions - Part 12. single insulated wire and cable fire

Test 1kW pre-mixed flame spread vertical flame test methods (IEC 60332-1-2.2004, IDT)

GB/T 18900-2002 Test methods for polarization mode dispersion single mode fiber (ITU-TG.650.2000, NEQ)

GB/T 29199-2012 rodent cable performance test methods

JB/T 8137 (all parts) wire and cable delivery plate

YD/T 837.2-1996 Copper polyolefin insulated aluminum sheathed local communication cable test methods - Part 2. Electrical performance

experiment method

YD/T 837.3-1996 Copper polyolefin insulated aluminum sheathed local communication cable test methods - Part 3. mechanical and physical

Performance test method