



ANSI/ICEA S-110-717-2019

Standard for Optical Fiber Drop Cable

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Third Edition**

***Standard for Optical Fiber Drop Cable***

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## FOREWORD

(This Foreword is not part of this Standard.)

This Standard provides information on specifying optical fiber cables for use as drop cables in telecommunications applications.

The first edition of this Standard was approved by ICEA on June 5, 2003, and adopted by the Telecommunications Industry Association (TIA) as ANSI/TIA-472F000. No subsequent editions were adopted by TIA. The second edition was approved by ICEA on September 13, 2012. It was approved by The American National Standards Institute (ANSI) on March 13, 2013. This third edition was approved by ICEA on March 9, 2019. It was approved by The American National Standards Institute (ANSI) on September 26, 2019. The members of the ICEA Communications Cable Division Working Group who participated in the third edition of this Standard were:

Mike Kinard, Chairman and Editor

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This issue replaces the previous issue of ICEA S-110-717-2013, *Standard for Optical Fiber Drop Cable*. Major changes in this revision include the following:

- Revision of the scope statement to better define the relationship of this drop cable standard to the FTTX and MDU applications of ICEA 730.
- Updated text on hazardous substances requirements.
- Addition of OM5 multimode fiber.
- Updated text and a new table explaining bend insensitive single-mode fiber.
- Addition of 200 micron fiber.
- Addition of descriptive text on easily-strippable semi-tight buffer.
- Jacket thickness specification has been changed from specified numbers to performance requirements.
- OIT is now required for polyolefin (PE or PP) jacket materials and LSZH jacket materials using polyolefin base resins.
- Some IEC test methods are stated as acceptable alternatives:
  - jacket print test
  - ribbon separability test.
- The temperature precision for testing has been changed to  $\pm 3^{\circ}\text{C}$  from  $\pm 2$ .

- Partially bonded ribbons have been accommodated in the ribbon requirements.
- The cable impact test has been revised to harmonize with current ICEA and international practice.
- Tensile requirements for self-supporting cable are stated.

This Standard contains five annexes. Annex B is normative and becomes part of this Standard when required by the customer. Annexes A, C, D, and E are informative and are not considered part of this Standard.

ICEA Standards are adopted in the public interest and are designed to eliminate misunderstanding between the manufacturer and user and to assist the user in selecting and obtaining proper products for a particular need. The existence of an ICEA Standard does not in any respect preclude the manufacture or use of products not conforming to this Standard.

The user of this Standard is cautioned to observe any applicable health or safety regulations and rules relative to the manufacture and use of cable made in conformity with this Standard. This Standard hereafter assumes that only properly trained personnel using suitable equipment will manufacture, test, install, and/or perform maintenance on cables defined by this Standard.

Requests for interpretation of this ICEA Standard must be submitted in writing (hard copy or email) to the Secretary of the Insulated Cable Engineers Association. The mailing address of ICEA Headquarters and a *Contact* link are shown on the ICEA web site - [www.icea.net](http://www.icea.net). An official written interpretation will be provided.

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