



**STANDARD FOR**

**OPTICAL FIBER**

**OUTSIDE PLANT COMMUNICATIONS CABLE**

Approved by

**AMERICAN NATIONAL STANDARDS INSTITUTE**

December 8, 2006

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## FOREWORD

(This Foreword is not part of this Standard.)

This Standard provides information on specifying fiber optic cables for outdoor use in telecommunications applications.

The first edition of this Standard was approved by ICEA on March 4, 1992, and the second revision on September 15, 1999. A third revision was approved by ICEA on June 8, 2005. It was published by ICEA, but was not published as an ANSI approved Standard. This revision to the Standard was approved by ICEA on September 13, 2006. This Standard was approved by The American National Standards Institute (ANSI) on December 8, 2006. This Standard will be presented to the Telecommunications Industry Association (TIA) with the intent that it be adopted as TIA-472D000-A. The members of the ICEA Communications Cable Division Working Group who participated in this project were:

Ken Chauvin, Chairman and Editor

M. D. Kinard  
J. Shinoski

R. Lovie  
D. Taylor

J. Rosko  
P. VanVickle

D. Baker  
K. Dunn

This issue replaces the previous issue of ANSI/ICEA S-87-640-1999, *Standard for Optical Fiber Outside Plant Communications Cable*. Major changes in this revision include the following:

- Cables with alternate tensile ratings for various applications
- Addition of Tight Buffer cables for outdoor use
- Addition of very low temperature cable performance requirements (Annex C)
- Figure-8 self-supporting cable (Annex D)
- 1625 nm performance requirements (Annex E)

This Standard contains six annexes. Annexes C and D are normative and are considered part of this Standard. Annex E is normative and considered part of this Standard when required by the customer. Annexes A, B, and F 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.

Questions of interpretation of ICEA Standards can only be accepted in writing and the reply shall be provided in writing. Suggestions for improvements in this Standard are welcome. Questions and suggestions shall be sent to:

Secretary  
Insulated Cable Engineers Association, Inc.  
Post Office Box 1568  
Carrollton, GA 30112  
United States of America



In Memory

of his more than forty years of contributions to the Wire & Cable Industry; in particular, for his fifteen years of leadership in the ICEA Communications Cable Section. During this time he was instrumental in the preparation of three major Standards this being one of them. This latest revision is hereby dedicated to the memory of:

H. Marvin McNeil  
April 23, 1927 – October 18, 1998

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