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S T A N D A R D S

Interface Practices Subcommittee

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**Fusion Splicing Equipment and Applications for the
Cable/Broadband Industry**

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1. Introduction

1.1. Executive Summary

This document provides a brief overview of fusion splicing equipment and methods, particularly those of interest to the cable / broadband industry.

1.2. Scope

This standard defines the equipment, methods, and practices used within the cable/broadband industry to obtain consistent low loss fusion splice connections between optical fibers.

1.3. Benefits

Fusion splicing provides distinct advantages over mechanical splicing. Splice losses are typically lower and are not subject to environmental limitations that mechanical splices typically suffer from. Fusion splicing comes into play either with splicing on connectors or pigtails, or possibly during installation and/or repair where direct cable-to-cable splicing is needed.

1.4. Intended Audience

This standard provides a general overview of equipment and techniques of interest to engineers and technicians within the industry.

1.5. Areas for Further Investigation or to be Added in Future Versions

As technology advances and matures, new equipment and techniques will be covered. For example, laser cleaving is becoming more popular in the connector industry but has not yet entered the splicing field. If such advances are made, it will be added to the standard.

2. Normative References

The following documents contain provisions, which, through reference in this text, constitute provisions of this document. At the time of Subcommittee approval, the editions indicated were valid. All documents are subject to revision; and while parties to any agreement based on this document are encouraged to investigate the possibility of applying the most recent editions of the documents listed below, they are reminded that newer editions of those documents might not be compatible with the referenced version.

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- No informative references are applicable.

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5. Abbreviations

LID	local injection and detection
L-PAS	lens – profile alignment system
MFD	mode field diameter
PAS	profile alignment system