



ATIS-0600029.2017

**Standard for Irreversible Compression Lugs, Inline
Splices, and Taps**

AMERICAN NATIONAL STANDARD FOR TELECOMMUNICATIONS



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ATIS-0600029.2019, *Standard for Irreversible Compression Lugs, Inline Splices, and Taps*

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ATIS-0600029.2019

American National Standard for Telecommunications

**Standard for Irreversible Compression Lugs,
Inline Splices, and Taps**

Alliance for Telecommunications Industry Solutions

Approved November 19, 2019

American National Standards Institute, Inc.

Abstract

This standard covers requirements for copper irreversible compression lugs, inline splices, and taps used in telecommunications systems, including buried connections.

Foreword

The information contained in this Foreword is not part of this American National Standard (ANS) and has not been processed in accordance with ANSI's requirements for an ANS. As such, this Foreword may contain material that has not been subjected to public review or a consensus process. In addition, it does not contain requirements necessary for conformance to the Standard.

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ANSI guidelines specify two categories of requirements: mandatory and recommendation. The mandatory requirements are designated by the word *shall* and recommendations by the word *should*. Where both a mandatory requirement and a recommendation are specified for the same criterion, the recommendation represents a goal currently identified as having distinct compatibility or performance advantages.

Suggestions for improvement of this document are welcome. They should be sent to the Alliance for Telecommunications Industry Solutions, STEP, 1200 G Street NW, Suite 500, Washington, DC 20005.

At the time of consensus on this document, STEP, which was responsible for its development, had the following leadership:

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- J. Fuller, STEP Vice Chair (AT&T)
- J. Jackson, STEP NPS Chair (AT&T)

The Network Power Systems (NPS) Subcommittee was responsible for the development of this document.

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American National Standard on –

Standard for Irreversible Compression Lugs, Inline Splices, and Taps

1 Scope, Purpose, & Applications

1.1 Scope

This standard covers requirements for copper irreversible compression lugs, inline splices, and taps used in telecommunications systems, including buried connections.

1.2 Purpose

The purpose of this standard is to develop telecommunications industry-wide requirements for irreversible crimp compression lugs, inline splices, and taps for use with 14 AWG and larger cable and bus bars, establish minimum quality requirements; establish recommended lug landing patterns, including lug width, and establish barrel size requirements. The standard does not cover irreversible crimp compression terminal for smaller wire sizes.

1.3 Applications

This standard is intended to:

- Establish minimum pull-out force limits;
- Establish some uniformity in the application of cover for taps, splices, and lugs;
- Require proper application of dies and tools; and
- Inform the user how to ensure they are using properly listed lugs, taps, and splices.

2 Normative References

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below.

[Ref 1] UL 94, *Test for Flammability of Plastic Materials for Parts in Devices and Applications*.¹

[Ref 2] UL 224, *Extruded Insulating Tubing*.¹

[Ref 3] UL 467, *Grounding and Bonding Equipment*.¹

[Ref 4] UL 486A-486D, *Wire Connectors*.¹

[Ref 5] UL 486E, *Splicing Wire Connectors*.¹

[Ref 6] ASTM E 27, *Standard Practice for Numbering Metals and Alloys in the Unified Numbering System (UNS)*.²

¹ This document is available from UL. < <https://ulstandards.ul.com/> >

² This document is available from ASTM International. < <https://www.astm.org/> >