

IEEE Standard for Fasteners for Overhead Line Construction

IEEE Power and Energy Society

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IEEE Standard for Fasteners for Overhead Line Construction

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**Transmission and Distribution Committee
of the
IEEE Power and Energy Society**

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Abstract: The requirements of inch-based: (1) zinc-coated ferrous carriage bolts, machine bolts, double-arming bolts, double-end bolts, washer-head bolts, eye bolts, eye nuts, and washer nuts; (2) zinc-coated ferrous lag screws of the fether drive, gimlet point, and twist drive type; (3) washers; and (4) staples, commonly used in overhead line construction, are covered. Metric bolts, nuts, and lag screws are not covered by this standard.

Keywords: bolt, hardware, IEEE C135.80™, line, nut, overhead, screw, staple, washer

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Introduction

This introduction is not part of IEEE Std C135.80-2012, IEEE Standard for Fasteners for Overhead Line Construction.

This standard combines the following standards for fasteners for overhead line construction:

- IEEE Std C135.1™, IEEE Standard for Zinc-Coated Steel Bolts and Nuts for Overhead Line Construction.^{a, b}
- IEEE Std C135.3™, IEEE Standard for Zinc-Coated Ferrous Lag Screws for Overhead Line Construction.
- ANSI C135.4, American National Standard for Zinc-Coated Ferrous Eyebolts and Nuts for Overhead Line Construction.^c
- ANSI C135.5, American National Standard for Zinc-Coated Ferrous Eyenuts and Eyelets for Overhead Line Construction.
- ANSI/NEMA C135.10, ANSI/NEMA Standard for Galvanized Ferrous Washers.^d
- ANSI C135.14, American National Standard for Staples with Rolled or Slash Points for Overhead Line Construction.
- ANSI C135.38, American National Standard for Zinc-Coated Ferrous Washerhead Bolts and Washer Nuts.

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Contents

1. Overview	1
1.1 Scope	1
1.2 Purpose	1
2. Normative references.....	2
3. Zinc-coated steel bolts and nuts.....	2
3.1 Material.....	2
3.2 Dimensions.....	3
3.3 Threads.....	9
3.4 Strength.....	10
3.5 Sizes.....	11
3.6 Corrosion protection.....	11
3.7 Finish.....	11
3.8 Marking of fasteners.....	12
4. Zinc-coated ferrous lag screws.....	12
4.1 Lag screws.....	12
4.2 Dimensions.....	12
4.3 Strength.....	12
5. Zinc-coated ferrous eyebolts, eye nuts, and eyelets.....	17
5.1 Material.....	17
5.2 Eyebolts.....	18
5.3 Eye nuts and eyelets.....	20
6. Zinc-coated ferrous washers.....	22
6.1 Material.....	22
6.2 Dimensions.....	23
7. Zinc-coated corrosion protection.....	26
8. Aluminum alloy washers.....	27
8.1 Material.....	27
8.2 Dimensions.....	27
9. Staples with rolled or slash points.....	27
9.1 Material.....	27
9.2 Dimensions.....	28
9.3 Strength and rigidity.....	31
9.4 Protective coatings.....	31
10. Finish.....	31
11. Marking.....	32
12. Definitions for acceptability and sampling.....	32
13. Requirements.....	33
14. Determination of acceptability.....	33
Annex A (informative) Bibliography.....	34

IEEE Standard for Fasteners for Overhead Line Construction

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1. Overview

1.1 Scope

This standard covers the requirements of inch-based: (1) zinc-coated ferrous carriage bolts, machine bolts, double-arming bolts, double-end bolts, washer-head bolts, eye bolts, eye nuts, and washer nuts; (2) zinc-coated ferrous lag screws of the fether drive, gimlet point, and twist drive type; (3) washers; and (4) staples, commonly used in overhead line construction. Metric bolts, nuts, and lag screws are not covered by this standard.

1.2 Purpose

This combined standard will provide a one-source standard for fasteners commonly used in overhead distribution and transmission lines. It will replace several active and archived standards that are currently in use to specify these fasteners.