



**Ovaleye Bolt Diam. 5/8 in.
Length 18, 22, 26, 28, 30 in.**

Equipment Specification

Document No.: 4752.263

Item No.:

Originating Dept: Transmission Eng

	Document Title: Ovaleye Bolt Diam. 5/8 in. Length 18, 22, 26, 28, 30 in.		
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Management Approval

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	Signature and Date N/A

Version History

Version	Date	Revision Comments	Author	Reviewers	Approver
00	Dec 28, 2021		Rene Maldonado	Heriberto Gonzalez	Walter Carrasquillo
01	May 18, 2022	General revision for final approval	Emmanuel E. Rivera	Rene Maldonado Oscar Venegas	Walter Carrasquillo



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1. General

- 1.1. This is a general specification that covers the minimum requirements for the hot dip galvanized 5/8 in. oval-eye bolt with square nut to be used in the distribution and transmission system in Puerto Rico.
- 1.2. Further information will be provided by LUMA Energy at the time of order placement and will provide information on site conditions, quantity, and other requirements.
- 1.3. This document includes the general electrical and mechanical characteristics of the material.

2. Specific Name

- 2.1. Ovaley Bolt Diam. 5/8 in.

3. Basic Use

- 3.1. For general mechanical support to attach the electrical and distribution hardware on the distribution and 38 kV transmission system assemblies.

4. Special Requirements

- 4.1. Samples shall be furnished if requested by LUMA.
- 4.2. LUMA may require one (1) unit properly labeled for testing and analysis.
- 4.3. Descriptive and technical literature shall be supplied if requested by LUMA.

5. Marking and Packaging

- 5.1. All material and equipment shall be packaged and marked in such a way as to facilitate handling and protection from damage and that the receiving warehouse can readily identify it and send it, in one complete unit, to a field location without opening crates or boxes to sort items and/or parts.

6. Equal or approved equal to:

- 6.1. As approved by LUMA - see Table 1 for specific catalog number.

7. Number per package:

- 7.1. As approved by LUMA.

8. Acceptance Criteria

- 8.1. Latest applicable codes, standards, and other regulations: ASTM (A307, A153)-IEEE (C135.1).



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9. Description

9.1. Table 1: Dimensions

LUMA Warehouse Number	Diameter Inches	Length Inches ("L")	Min. Thread Length Inches ("T")	Catalog Number
002-82907	5/8	18	6	29968
002-82908	5/8	22	6	29972
002-82909	5/8	26	6	2997026
002-82910	5/8	28	6	TBD
002-82911	5/8	30	6	TBD

- 9.2. The dimensions of semicone point for the bolt shall have a length of point of approximate 1/4-inch (0.635 cm) beyond the last thread and approximate angle of 60 degrees.
- 9.3. The thread end of bolts not requiring semicone points, shall be chamfered or rounded bolts and nuts conform with IEEE standard C135.1 – 1999.
- 9.4. Shall be provided with corresponding square nut of the same material.
- 9.5. The top of nuts shall be flat and chamfered. It shall also be equal to the maximum width across flat, within a tolerance of 15%.
- 9.6. Material: Hot-Dip galvanized structural steel in accordance with ANSI/ASTM A-307 and A-153.
- 9.7. Minimum tensile strength: 12,400 lbf.
- 9.8. Metric conversion as per latest ASTM.

10. Inspection

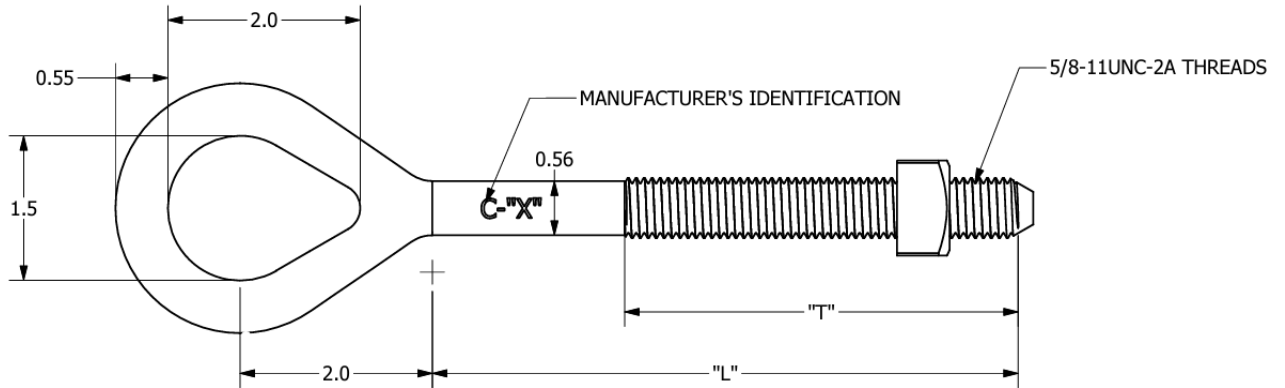
- 10.1. The acceptance of any material or equipment shall in no way relieve the vendor from his responsibility to meet all the requirements of this specification, and it shall not prevent subsequent rejection if such material is found to be defective later.



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11. Drawing



— End of Specification —