



Document Title:  
**3#6 OHGW Aluminum Compression 2 Holes Lug**

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**Specification**

Engineering Type  
**Material Specification**

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**Transmission  
 Engineering**

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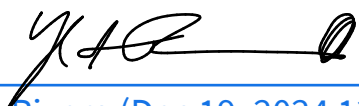
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**Management Approval (If apply)**

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**Related/Referenced Documents**

Version	Date	Revision Comments
00	Mar 16, 2023	First Issue
01	Apr 10, 2023	Changed equal or approved equal to and illustration section
02	Dec 19, 2024	Changed cover page and document to new format. Modified sections 4 and 7. Added a table of compliance and Proposal Information.

## 1. General

### 1.1. Overview

- 1.1.1. This specification covers the minimum requirements for a 3#6 OHGW Aluminum Compression 2 Holes Lug used in the transmission system in Puerto Rico.
- 1.1.2. The 3#6 OHGW Aluminum Compression 2 Holes Lug shall be designed and manufactured in accordance with the latest applicable IEEE, NEMA, ANSI, and ASTM Standards. If the vendor does not demonstrate its compliance with the applicable standards, these specification requirements and supply the requested documents, the bid may be rejected.
- 1.1.3. 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.

## 2. Specific Name

- 2.1. 3#6 OHGW Aluminum Compression 2 Holes Lug.

## 3. Basic Use

- 3.1. For electrical bonding of 3#6 OHGW to transmission line structures.

## 4. Specific Requirements

- 4.1. Samples shall be furnished to LUMA.
- 4.2. LUMA requires One (1) unit properly labeled for testing and analysis.
- 4.3. Descriptive and technical literature shall be supplied to LUMA.
- 4.4. They shall be required to show evidence of LUMA's approval of the equipment.

## 5. Acceptance Criteria

- 5.1. Latest applicable codes, standards, and other regulations. If the vendor does not demonstrate its compliance with the applicable standards, these specification requirements and supply the requested documents, the bid may be rejected.

## 6. Description

- 6.1. Aluminum alloy compression terminal lug shall have two (2) holes and straight angle tongue
- 6.2. Connectors contact surfaces shall be coated with oxide retardant before installation.
- 6.3. Barrel shall be designed with an internal chamfer at the wire entry to ensure smooth insertion of the wire, preventing possible damaging of the strands.
- 6.4. Hole size shall be ½" with 1 ¾" stud hole spacing as per NEMA standard.
- 6.5. Conductor range and tooling information shall be marked clearly with stamping.

**7. Markings and Packaging**

- 7.1. Containers/pallets or package shall be marked outside with LUMA’S purchase order number and code number.
- 7.2. Vendor shall prepare material and equipment for shipment in such manner as to facilitate handling and protection for damage.
- 7.3. All material should be packaged and marked in such a way that the receiving warehouse can readily identify and send in one (1) complete unit to a field location without opening crates or boxes to sort items and / or parts.

**8. Compatible with**

- 8.1. Burndy – Catalog No. YA1CA9
- 8.2. This model is an example of the equipment/material described in this document and do not represent a preference. LUMA will evaluate equally any model not listed here during any acquisition event.

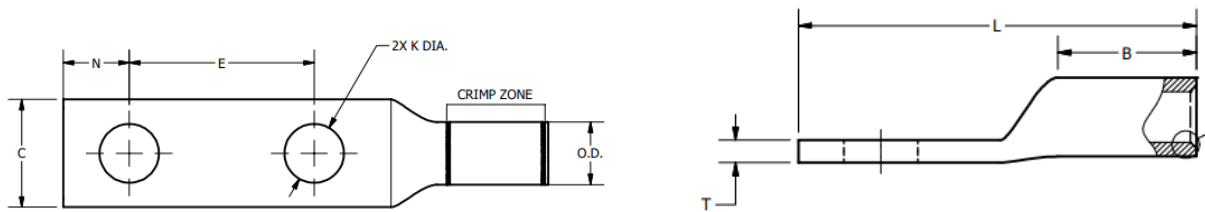
**9. Proposal Information**

- 9.1. Submitted proposals must include:
  - a. Technical Information
  - b. Table of Compliance completed by the bidder with reference

**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

**11. Drawings**



**Table 1: Dimensions**

Conductor Size	Stud Hole Diameter	Outside Diameter	Barrel Length (B)	Pad Width (C)	Pad Length (D)	Overall Length (L)	Hole Offset (N)	Pad Thickness (T)	Color Code
1 AWG	0.56	0.54	0.91	0.88	3.11	4.52	0.63	0.19	Gold

Warehouse ID	002-84438
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— End of Specification —



## Appendix

Appendix 1. Table of Compliance

Line	Criteria	Description	Pass/Fail (P / F)	Comments
1	Specification	The Proponent complies with the corresponding specification document (4752.318)		
2	Industry Standards	The Proponent complies with the industry standards established in the specification document (ANSI, ASTM, IEEE, NEMA)		
3	Material	<p>3#6 OHGW Aluminum Compression 2 Holes Lug</p> <ul style="list-style-type: none"> <li>Aluminum alloy compression terminal lug shall have two (2) holes and straight angle tongue.</li> <li>Connectors contact surfaces shall be coated with oxide retardant before installation.</li> <li>Barrel shall be designed with an internal chamfer at the wire entry to ensure smooth insertion of the wire, preventing possible damaging of the strands.</li> <li>Hole size shall be ½" with 1 ¾" stud hole spacing as per NEMA standard.</li> </ul>		
4	Dimensions	Complies with Table 1		
5	Requirements	<ul style="list-style-type: none"> <li>Samples shall be furnished to LUMA.</li> <li>LUMA requires One (1) unit properly labeled for testing and analysis.</li> <li>Descriptive and technical literature shall be supplied to LUMA. Vendors that have supplied this material to PREPA in previous orders, will not have to furnish samples at bid opening.</li> <li>They shall be required to show evidence of LUMA's approval of the equipment.</li> </ul>		











# 4752.318 3#6 OHGW Aluminum Compression 2 Holes Lug

Final Audit Report

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