LUMA	Document Title: **Hot Dip Galvanized Ground/Bond Wire Clamp**		
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Management Approval (If apply)

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Related/Referenced Documents

N/A.

Version History

Version	Date	Revision
01	Apr 14, 2022	Initial release.
02	Jul. 19, 2024	Format corrections, TOC update, Section 4 modified, and sections order rearranged.

Item Version History

Warehouse Catalog #	Asset Suite	Version	Date
002-82539	82539	2	07/19/2024
002-82540	82540	2	07/19/2024

1. Introduction

This is a general specification that covers the minimum requirements for hot dip galvanized ground/bond wire clamps to be used in the distribution system in Puerto Rico. Further information will be provided by LUMA Energy at the time of order placement and will provide information on site specific conditions, quantity, and other requirements. This document includes the general electrical and mechanical characteristics of the equipment/material.

2. Special Requirements

Samples shall be furnished as requested by LUMA Energy. Vendors that have supplied this equipment/material to LUMA on previous orders will not have to furnish samples at bid opening. The equipment/material will be received at the LUMA's general warehouse (011) at Palo Seco, Puerto Rico. Shipping will include transportation and unloading at the indicated warehouse.

3. Literature

Descriptive and technical literature must be supplied by the vendor at time of bidding. This literature may include, but is not limited to details of material, drawings, documented testing, and instructions for use and installation. Failure to submit documents on time will cause bidder disqualification.

4. Compatible with

For compatible manufacturers and models see Table 2. These models are examples 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.

5. Markings

5.1. Containers shall be marked outside with LUMA Energy's purchase order and item number.

5.2. Packaging labels and tags shall be waterproof.

6. Packaging

All equipment/material 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.

7. Number Per Package (Logistics)

7.1. Quantity per box: One hundred (100) units or as requested by LUMA Energy.

7.2. Box dimensions: 7in x 12in x 4in

7.3. Box weight: 48 lbs.

7.4. 1 unit includes two (2) 1 ½" long clamp sections and one (1) square nut.

8. Acceptance Criteria

8.1. Test required: certified by external laboratories.

8.2. Product shall be manufactured in accordance with the latest issue below (section 8.3). When conflicts occur between purchaser's specifications and the latest issue below, the purchaser's specification shall prevail.

8.3. Latest applicable codes, standards, and other regulations:

a. ASTM (A153) – for hot dip galvanizing.

8.4. If any other standard different from the ones indicated in this document are used, the supplier must provide information showing compatibility with the required ones.

9. Description

9.1. Hot dip galvanized steel ground bonding clamp for 5/8" (15.86 mm) and ¾" (19.05 mm) mounting bolt.

9.2. Used to attach ground wires to structures and other flat surfaces.

9.3. Ground Wire Diameter Range: As per Table 1

9.4. Approximate steel clamp section dimensions: As per Table 1.

9.5. Material: Galvanized Steel a per ASTM (A153)

9.6. Table 1

Warehouse Catalog #	Asset Suite #	Clamp Dimensions	Thru Hole Diameter	Bolt Diameter	Conductor Size Range (AWG)
002-82539	82539	1.56"L X 1.5"W (3.96cm X 3.81cm)	11/16 in (17.46	5/8 in (15.86 mm)	strd. #8 - strd. #2
002-82540	82540	1.65"L X 1.5"W (4.19cm X 3.81cm)	13/16 in (20.62	3/4 in (19.05 mm)	strd. #6 - strd. 1/0

10. Inspection

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

11. Proposal Information

11.1. Submitted proposals must include:

a. Technical information, tests, and drawings.

b. Table of Compliance completed by the bidder with reference (see Appendix 1).

12. Table 2: Warehouse and Asset Suite Identification Number

Warehouse Catalog #	Asset Suite #	Compatible Manufacturer	Model
002-82539	82539	MacLean Power System	J1163
002-82540	82540	MacLean Power System	J1164

— 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 4350.081.		
2	Industry Standards	The Proponent complies with the industry standards established in the specification document. (ANSI, ASTM, ASME)		
3	Type	Ground Wire Clamp		
4	Material	Hot Dip Galvanized Steel		
5	Parts Include Per Item	2 ea steel clamps section 1 ea regular square nut		
6	Warehouse Number:			
7	002-82539	For 5/8 in. Bolt Diameter / Conductor Size Range: strd. #8 - strd. #2 AWG Clamp Dimensions: 1.56"L X 1.5"W with 11/16" diameter Thru Holes		
8	002-82540	For 3/4 in. Bolt Diameter / Conductor Size Range: strd. #6 - strd. #1/0 AWG Clamp Dimensions: 1.65"L X 1.5"W with 13/16" diameter Thru Holes		

NOTE: This table is only a check list for reference. The compliance shall be with the complete document. Marking a PASS in the table won't be accepted as a compliance without the technical information required to certify it.

4350.081 Ground Bonding to Structure (07-19-2024)

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