



Equipment Specification
Document No.: 4350.034
Item No.: 072-82376
Asset Suite: 82376
Originating Department: Distribution Engineering



Wildlife Protection – Lightning Arrester Guard

1. Introduction

This is a general specification that covers the minimum requirement for the wildlife protection systems for the lightning arrester to be used in the distribution system in Puerto Rico. Further information will be provided by LUMA Energy at the time of order placement will provide information on site specific conditions, quantity, and other requirements. This document includes the general electrical and mechanical characteristics of the material.

2. Special Requirements

Samples shall be furnished as requested by LUMA Energy. Vendors that have supplied this material to LUMA on previous orders, will not have to furnish samples at bid opening. The 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. Quantity/Literature

Descriptive and technical literature must be supplied by 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. For products described in this specification as requiring qualification, awards will be made only for such products that, prior to the time for opening of bids, had been tested and/or approved by LUMA. Evidence of PREPA's and/or LUMA Energy's approval of the equipment or material shall be supplied by vendor if requested by LUMA Energy.

4. Markings

- 4.1. Containers shall be marked outside with LUMA Energy's purchase order, item number, name and size, net and gross weight, manufacturer's name, and lot number.
- 4.2. Labels and tags shall be waterproof.

5. Equal or Approved Equal to

Hubbell Reliaguard, catalog number: **LA-13002**.



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6. Packaging

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.

7. Number Per Package (Logistics)

Twelve (12) units per box or as required by LUMA Energy.

8. Acceptance Criteria

8.1. Test required: certified by external laboratories.

8.2. Latest applicable codes, standards, and other regulations: ASTM-ANSI-IEEE-UL

- a. IEEE 1656-2010 - Guide for Testing the Electrical, Mechanical, and Durability Performance of Wildlife Protective Devices on Overhead Power Distribution Systems Rated up to 38 kV

9. Description

9.1. The wildlife protection for lightning arrester guard is to be used to protect wire connections in lightning arresters.

9.2. Covers that can be installed over lightning arresters. Provides protection from animals, vegetation, and climate events.

9.3. Must be easy to install.

9.4. Equipment material shall meet the specific guidelines of IEEE 1656-2010.

9.5. Shall accommodate a wide variety of lightning arrestors.

9.6. Multiple exit ports to accommodate conductors.

9.7. Bushing protection shall have the following minimum dimensions, see Figure 1:

- a. Height: 4.75 in (12.06 cm).
- b. Diameter: 5 in (127.00 cm).
- c. Base port diameter: 2.30 in (58.40 cm).



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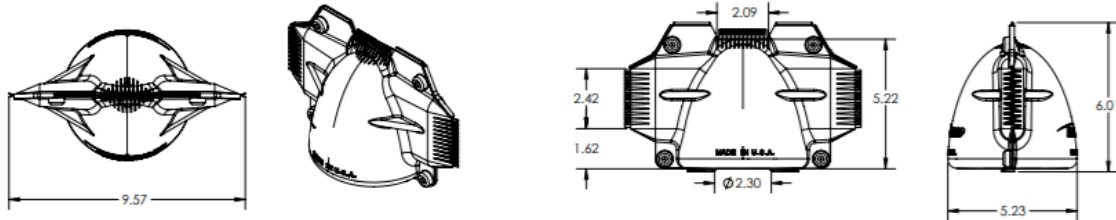


Figure 1: Dimensions Schematic

9.8. Metric conversions as per ASTM E380.

10. Inspection

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 would not prevent subsequent rejection if such materials were found later to be defective.

11. Proposal Information

11.1. Submitted proposals must include:

- a. Technical information
- b. Table of Compliance completed by the bidder with reference. (See Appendix 1)

— End of Specification —

Document History

Version	3
Date	04/13/2022
Author	Rodolfo Flores
Reviewer	Rafael Torres
Approver Manager	Ricardo Castro









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Appendix



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Appendix 1: Table of Compliance

Line	Criteria	Description	Pass/Fail (P / F)	Comments
1	Specification	The Proponent complies with the corresponding specification document (4350.034)		
2	Industry Standards	The Proponent complies with the industry standards established in the specification document. (ASTM/ANSI/IEEE/UL)		
3	Description	The wildlife protection for lightning arrester guard is to be used to protect wire connections in lightning arresters. Covers that can be installed over lightning arresters. Provides protection from animals, vegetation, and climate events. Shall accommodate a wide variety of lightning arrestors. Multiple exit ports to accommodate conductors.		
4	Bushing protection Minimum Dimension	Height: 4.75 in (12.06 cm) Diameter: 5 in (127.00 cm) Base port diameter: 2.30 in (58.40 cm)		
5	Material	Shall be stainless steel		