



Document Title:  
**5/8" Pin Insulator Thimble Adapter**

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Department  
**Distribution**

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**Related/Referenced Documents**

N/A

**Version History**

Version	Date	Revision Comments
01	Dec. 03, 2021	PREPA to LUMA format.
02	Apr. 14, 2022	Signature format modified and Table of Compliance added.
03	Jan. 10, 2025	General format modifications, TOC updated, Sections 4, 5, and 8 modified, and sections order rearranged. Material and models updated.



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## Item Version History

Warehouse Catalog #	Asset Suite #	Version	Date
002-00253	8365	9	1/10/2025



## 1. Introduction

This is a general specification that covers the minimum requirements for a pin insulator thimble adapter 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 LUMA's general warehouse (011) at Palo Seco, Puerto Rico. Shipping will include transportation and unloading at the indicated warehouse.

## 3. Literature

- 3.1. Descriptive and technical literature must be supplied by the vendor at time of bidding. This literature must include, but is not limited to details of material, drawings, documented testing, and instructions for use and installation. **The literature must be an official document from and certified by the manufacturer.** Failure to submit documents on time and duly certified by the manufacturer will cause bidder disqualification.
- 3.2. If required by LUMA, final drawings and documentation shall be submitted by the vendor before the manufacturing and shipping process for approval.

## 4. Compatible with

For compatible manufacturers and models, see Table 1. These models are examples of the equipment/materials described in this document and do not represent a preference. LUMA will evaluate equally any models not listed here during any acquisition event.

## 5. Markings

- 5.1. Containers or pallets shall be marked outside with LUMA Energy's purchase order and warehouse catalog number.
- 5.2. Individual package(s) shall be clearly marked with manufacturer name and item information (part number, serial number, quantity, etc.).

5.3. 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)

Standard package: Twenty (20) units per box or as requested by LUMA.

## 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. ANSI C135.17: for galvanized ferrous bolt-type insulator pins with lead threads for overhead line construction.
- b. ASTM A36: for carbon structural steel used in the manufacture of welded and bolted metal structures.
- c. ASTM A153: for hot-dip galvanized process.

8.4. If any other standards 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. The adapter is used for mounting 1" standard pin insulator on overhead line installations in the distribution system.

9.2. Shall be constructed with carbon steel as per ASTM A36 or any other stronger steel.

9.3. Shall be hot-dip galvanized steel as per ASTM A153.

9.4. The dimensions shall be as per ANSI C135.17.

9.5. The body shall be a solid piece with no open pieces with soldered nuts.

9.6. The top head threads shall be nylon. Lead threads will not be accepted.

- a. Shall be 1.75" (4.4 cm) long with a diameter of 1" (2.5 cm).
- b. Shall be suitable for pin type low voltage porcelain insulator ANSI Class 55-5 and pin type low voltage polymer insulator ANSI Class 56-1.

9.7. The bottom shall have a 5/8"-11 (1.6 cm) machine screw tap diameter inner thread.



- 9.8. Minimum overall length: 5" (12.7 cm).
- 9.9. All measures shall be met after the galvanized process.

**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 1: Warehouse and Asset Suite Identification Number**

Warehouse Catalog #	Asset Suite #	Compatible Manufacturer & Model
002-00253	8365	Hubbell (4258P) MacLean (J2840Z)

— End of Specification —



## Appendix



## Appendix 1: Table of Compliance

Line	Description	Pass/Fail (P / F)	Comments
1	Complies with the specification document 4350.088.		
2	Industry Standards: ANSI C135.17, ASTM (A36, A153)		
3	Carbon steel as per ASTM A36 or stronger steel.		
4	Hot Dip Galvanized Steel as per ASTM A153.		
5	Dimensions as per ANSI C135.17.		
6	Solid piece body. No open pieces with soldered nuts.		
7	Top nylon head thread: 1" diameter and 1.75" long.		
8	Bottom machine screw tap threads inner diameter: 5/8"-11		
9	Overall Minimum Length: 5"		
10	Measures met after the galvanized process.		
11	Suitable for pin type low voltage porcelain insulator ANSI Class 55-5 and pin type low voltage polymer insulator ANSI Class 56-1.		

**NOTE: This table is only a checklist for reference. The compliance must be with the complete document. Filling out the table with "PASS" won't be accepted as a compliance without the technical information required to certify it.**











# 4350.088 Pin Insulator Thimble Adapter (1-10-25)

Final Audit Report

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