



Equipment Specification

Document No.: 4350.046

Item No.: 002-01939

Asset Suite: 55350

Originating Department: Distribution Engineering



Three-Phase Corner Bracket for Spaced Aerial Cables

1. Introduction

This specification describes the minimum requirements for a fiberglass three-phase corner bracket for spaced aerial cables to be installed on 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 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-Chance, catalog number: SPO40011.



Equipment Specification

Document No.: 4350.046

Item No.: 002-01939

Asset Suite: 55350

Originating Department: Distribution Engineering

Three-Phase Corner Bracket for Spaced Aerial Cables

6. Packaging

- 6.1. The corner brackets shall be shipped as a complete assembly.
- 6.2. 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 to sort items and/or parts.

7. Number Per Package (Logistics)

Four (4) per package, forty-eight units per pallet, or as required by LUMA Energy.

8. Acceptance Criteria

- 8.1. Test required: certified by external qualified laboratories.
- 8.2. Latest applicable codes, standards, and other regulations:

9. Description

This description is for a 12"12"18" three-phase light duty fiberglass corner bracket and hardware accessories, used on supporting turns and angles or spaced aerial 15 KV cable. Shall have an extension so that a messenger angle clamp can be attached. Designed for 15 KV system and intended for use on angles up to 60 degrees. The base shall be in aluminum.

- 9.1. Specifications:
 - a. Strength Rating – Minimum Ultimate, Longitudinal (L) = 1,000 lb (4.448 kN)
 - b. Strength Rating – Minimum Ultimate, Transverse (T) = 5,000 lb (22.241 kN)
 - c. Strength Rating – Minimum Ultimate, Vertical (V) = 2,000 lb (8.896 kN)
- 9.2. Dimensions and Weight:
 - a. Diameter – Rod/Tube = 1.25 in (3.175 cm)
 - b. Distance from Pole = 24.0 in (60.96 cm)
 - c. Length = 24.0 in. (60.96 cm)
 - d. Mounting Bolt Spacing = 8.0 in (20.32 cm)



Equipment Specification

Document No.: 4350.046

Item No.: 002-01939

Asset Suite: 55350

Originating Department: Distribution Engineering

Three-Phase Corner Bracket for Spaced Aerial Cables

e. Weight = 15.5 lb (7.0 kg)

9.3. Shall have enough space to accept a 4” spool insulator (LUMA warehouse number: 014-00696) existing in our inventory. Its dimensions are: 4” (10.16 cm) diameter and 4 1/8” (10.48 cm) long.

9.4. 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









Equipment Specification

Document No.: 4350.046

Item No.: 002-01939

Asset Suite: 55350

Originating Department: Distribution Engineering

Three-Phase Corner Bracket for Spaced Aerial Cables

Appendix



Equipment Specification

Document No.: 4350.046

Item No.: 002-01939

Asset Suite: 55350

Originating Department: Distribution Engineering

Three-Phase Corner Bracket for Spaced Aerial Cables

Appendix 1: Table of Compliance

Line	Criteria	Description	Pass/Fail (P / F)	Comments
1	Specification	The Proponent complies with the corresponding specification document (4350.046).		
2	Industry Standards	The Proponent complies with the industry standards established in the specification document. (ANSI/ASTM, AA)		
3	Material	<ul style="list-style-type: none">• Fiberglass• Base: Aluminum		
4	Requirements	<ul style="list-style-type: none">• Shall have an extension so that a messenger angle clamp can be attached.• Shall have enough space to accept a 4-1/8 in. long X 4 in. diameter spool insulator.• 15 kV rating		
5	Measurements	<ul style="list-style-type: none">• Rod / Tube Diameter: 1.25 in.• Overall Length: 24 in.• Mounting Bolt Spacing: 8 in.• Distance from Pole: 24 in.		
6	Weight	15.5 lbs.		
7	Minimum Ultimate Strength	<ul style="list-style-type: none">• Longitudinal: 1,000 lbf.• Transverse: 5,000 lbf.• Vertical: 2,000 lbf.		