



Equipment Specification
Document No.: 4350.099
Item No.: 002-13488
Asset Suite: 55839
Originating Department: Distribution Engineering



Clevis 1/4" x 1-1/2" Steel Bar Hot Dip Galvanized Primary

1. Introduction

This is a general specification that covers the minimum requirements for a clevis 1/4" x 1-1/2" steel bar hot-dip galvanized primary 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 clevis is used for mounting dead-ends and angles on open conductor primary lines. 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 PREPA / 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 and item number.
- 4.2. Packaging labels and tags shall be waterproof.

5. Equal or Approved Equal to

Hubbell (0344).



Equipment Specification

Document No.: 4350.099

Item No.: 002-13488

Asset Suite: 55839

Originating Department: Distribution Engineering

Clevis 1/4" x 1-1/2" Steel Bar Hot Dip Galvanized Primary

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)

Fifty (50) units per package, seven hundred twenty (720) per pallet, or as requested by LUMA.

8. Acceptance Criteria

- 8.1. Test required: certified by external qualified laboratories.
- 8.2. Latest applicable codes, standards, and other regulations:
 - a) ASTM A7-58T: For steel specifications.
 - b) ASTM A-153-53: For hot-dip galvanizing.

9. Description

- 9.1. This clevis is used for mounting dead-ends and angles on open conductor primary lines.
- 9.2. Shall be made of 1/4" x 1-1/2" (0.6 x 3.8 cm) flat steel hot dip galvanized.
- 9.3. Shall be of an offset design to increase the flashover resistance.
- 9.4. Shall include a 5/8" (1.6 cm) diameter galvanized steel pin with stainless steel self-locking cotter.
- 9.5. Shall be suitable to be used with a 4" (10.2 cm), ANSI class 53-5, spool type porcelain primary insulator.
- 9.6. Shall have one 11/16" x 3/4" (1.7 x 1.9 cm) mounting slotted hole located at 5-3/4" (14.6 cm) minimum distance from the center of the clevis bolt.
- 9.7. Steel conforming ASTM A7-58T specifications.
- 9.8. Galvanizing conforming ASTM A-153-53 specifications.



Equipment Specification
Document No.: 4350.099
Item No.: 002-13488
Asset Suite: 55839
Originating Department: Distribution Engineering

Clevis 1/4" x 1-1/2" Steel Bar Hot Dip Galvanized Primary

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	Miguel J. Rios
Reviewer	Rafael Torres
Approver Manager	Ricardo Castro



Equipment Specification

Document No.: 4350.099

Item No.: 002-13488

Asset Suite: 55839

Originating Department: Distribution Engineering

**Clevis 1/4" x 1-1/2" Steel Bar Hot Dip
Galvanized Primary**

Appendix



Equipment Specification
Document No.: 4350.099
Item No.: 002-13488
Asset Suite: 55839
Originating Department: Distribution Engineering

Clevis 1/4" x 1-1/2" Steel Bar Hot Dip Galvanized Primary

Appendix 1: Table of Compliance

Line	Criteria	Description	Pass/Fail (P / F)	Comments
1	Specification	The Proponent complies with the corresponding specification document (4350.099).		
2	Industry Standards	The Proponent complies with the industry standards established in the specification document. (ANSI/ASTM)		
3	Material	Hot Dip Galvanized Flat Steel (1/4 X 1-1/2 in.).		
4	Cotter with Pin	5/8 in. galvanized pin with stainless-steel self-locking cotter.		
5	Requirements	<ul style="list-style-type: none">• Shall be suitable to be used with a 4" ANSI class 53-5, spool type porcelain primary insulator.• Shall have one 11/16" x 3/4" mounting slotted hole located at 5-3/4" minimum distance from the center of the clevis bolt.		