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Insulated Jumper Clamp Assembly

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Material Specification

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Distribution Standards & Materials

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Warehouse Catalog	Item Version	Date
072-00355	7	9/13/2022



Equipment Specification
Document No.: 4350.261
Item No.: 072-00355
Asset Suite: 55206
Originating Department: Distribution Engineering



Insulated Jumper Clamp Assembly

1. Introduction

This is a general specification that covers the minimum requirements for insulated jumper clamp assembly 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 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. Labels and tags shall be waterproof.

5. Equal or Approved Equal to

Hastings model, Assembled Jumpers with large range heads catalog number: 6749

Insulated Jumper Clamp Assembly

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)

One (1) set container or as requested by LUMA Energy.

8. Acceptance Criteria

8.1. Test required: certified by external qualified laboratories.

a. Latest applicable codes, standards, and other regulations: Cable insulation, shield, and conductor shall be manufactured and electrically tested to meet or exceed ICEA/NEMA Standard S-68-516.

9. Description

9.1. Insulated jumper clamp assembly.

9.2. Shall consist of two jumper clamps, ferrules, and jumper cable.

9.3. Jumper clamp shall have a main line range of 6 solid to 954 ACSR.

9.4. Clamp handle shall be yellow or high visibility color. Clear color will not be accepted.

9.5. Shall have a molded handguard of at least 7.5 inches for lineman safety.

9.6. Shall have ribs formed in the handle for easy gripping with high voltage gloves.

9.7. Conductor clamp shall have a contoured contact surface and shall be machined from cast bronze material.

9.8. Shall have a bronze clamping ring with serrations for improved contact surface with conductor.

9.9. Current rating shall be 400 amperes (continuous).

9.10. Clamp shall have a bumper end cap to provide cushions against impact.

9.11. Clamp shall be connected to cable with unshrouded cable ferrules with 5/8-11NC threads.

9.12. Ferrules shall be made of tin-plated copper and shall include nuts and lock washers.

9.13. Jumper cable shall be 10 ft. 15 kV (phase to phase), 4/0 AWG size with 400 amps capacity.

9.14. Cooper stranding shall extra flexible, and alloy coated.

Insulated Jumper Clamp Assembly

- 9.15. Shall have a conductive strand shield to eliminate internal corona and improve dielectric strength.
- 9.16. Insulation jacket shall be mold cured form EPR and shall resist abrasion, heat, moisture, and UV rays.
- 9.17. Color of jacket shall be orange or red.
- 9.18. Cable stranding to ferrule connection shall be protected with a 5-inch-long clear heat shrink sleeve to provide a barrier that resist moisture and corrosion.
- 9.19. All components shall be factory assembled.

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)

12. Table 1: Warehouse and Asset Suite Identification Number

Item #	Warehouse #	Asset Suite #
1	072-00355	55206

— End of Specification —

Equipment Specification
Document No.: 4350.261
Item No.: 072-00355
Asset Suite: 55206
Originating Department: Distribution Engineering

Insulated Jumper Clamp Assembly

Appendix

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Insulated Jumper Clamp Assembly

Appendix 1: Table of Compliance

Line	Criteria	Description	Pass/Fail (P/F)	Comments
1	Specification	The Proponent complies with the corresponding specification document.		
2	Industry Standards	The Proponent complies with the industry standards established in the specification document. ANSI, ICEA/NEMA Standard S-68-516.		
3	Jumper Clamp	Shall have a main line range of 6 solid to 954 ACSR		
4	Material Color	<ul style="list-style-type: none"> • Color of jacket shall be orange or red. • Clamp handle shall be yellow or high visibility color. Clear color will not be accepted. 		
5	Characteristics	<ul style="list-style-type: none"> • Shall consist of two jumper clamps, ferrules, and jumper cable. • Current rating shall be 400 amperes (continuous). • Clamp shall be connected to cable with unshrouded cable ferrules with 5/8-11NC threads. • Jumper cable shall be 10 ft. 15 kV (phase to phase), 4/0 AWG size with 400 amps capacity 		












4350.261 Insulated Jumper Clamp Assembly

Final Audit Report

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