



Equipment Specification

Document No.: 4350.232

Item No.: 038-81471

Asset Suite: 81471

Originating Department: Distribution Engineering



**Connector URD Bus Bar 600 V, Cu/Al,
6 Outlets for Rectangular Pedestals**

1. Introduction

This is a general specification that covers the minimum requirements for a connector URD bus bar pedestal, Cu/Al, 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 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

Raychem (F47114-000).



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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)

Standard package: Six (6) units per box 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. ANSI/IEEE C119.1:
- b. ASTM D543:
- c. ASTM D638:
- d. ASTM G53:

9. DESCRIPTION

9.1. Used as spare part for rectangular pedestals in underground residential distribution system.

9.2. Shall be suitable for copper and aluminum conductors.

9.3. Shall be suitable for submersible connections.

9.4. Shall be one piece housing, no loose parts, corrosion & impact resistant.

9.5. Shall have gel filled cable entry ports to avoid sulfatation.

9.6. Shall have six (6) outlets with fastening bolts capable of accepting a range from 14 AWG to 350 MCM conductors.

9.7. Conductor fastener shall be allen wrench type.

9.8. The complete assembly shall be contained in a removable cover rated at 600 V insulation.

9.9. Shall be as simple as strip the cable and push it into the gel filled cable port.



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9.10. Shall have the following characteristics:

- a. Current rating: 500 A.
- b. Material: Aluminum, tin plated for copper and aluminum conductors.
- c. Connector type: Multiple service connector.
- d. Approximate dimensions: 8.35" (12.21 cm) long, 3.825" (9.72 cm) wide, and 3.50" (8.89 cm) height.
- e. Distance between outlets: 1.25" (3.18 cm) center to center.

9.11. The lug shall be rectangular, square, or T shape.

- a. Rectangular shape lug shall be provided with 5/8" (1.59 cm) mounting studs.
- b. Square or T shape lug shall be provided with 5/8" (1.59 cm) and 1" (2.54 cm) mounting studs.

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


Date: 04/28/2022

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Reviewer: Rafael Torres

Approver: 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 4350.232.		
2	Industry Standards	The Proponent complies with the industry standards established in the specification document. (ASTM & IEEE)		
3	Material	Aluminum, tin plated for copper and aluminum conductors		
4	Product Requirement	<ul style="list-style-type: none">• 6 outlets with fastening bolts, allen wrench type• Cable range from 14 AWG to 350 MCM• Connector Type: Multiple Service• Current Rating: 500A		
5	Product Requirement	<ul style="list-style-type: none">• Complete assembly shall be contained in a removable cover with 600V insulation.• One piece housing, no loose parts, corrosion & impact resistant.		
6	Approximate Dimensions	<ul style="list-style-type: none">• Length: 8.35"• Width: 3.825"• Height: 3.50"• Distance between outlets: 1.25" center to center		
7	Shape	Shall be Rectangular, Square or T shape: <ul style="list-style-type: none">• Rectangular shape lug provided with 5/8" mounting studs.• Square or T shape lug provided with 5/8" and 1" mounting studs.		