



Document Title:

Connector URD Mole, 600 V, Cu/Al, 4, 8 & 9 Outlets

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Material Specifications

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Distribution Standards & Materials

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Author

Miguel J. Rios López, PE
Standards Engineer, Distribution Stand & Materials

Signature and Date

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Reviewer

Rodolfo A. Flores Ortiz, PE
Standards Engineer, Distribution Stand & Materials

Signature and Date

Dec 21, 2022

Approver

Ricardo Castro Gómez, PE
Manager, Distribution Standards & Materials

Signature and Date

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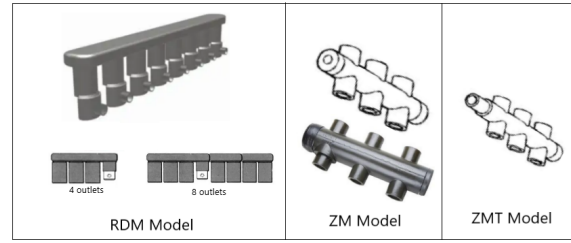
Date	Revision Comments
Jan. 19, 2022	Document created and converted from PREPA to LUMA format for items 038-00745, 038-00794, 038-00737, and 038-01511.
May. 11, 2022	Last two items created.
Jun. 14, 2022	Document History format changed.
Jul. 27, 2022	Warehouse Codes (038-83158 and 038-83158) assigned to items 5 and 6 respectively.
Sep. 26, 2022	Cover Page added, suggested model for items 038-83158 and 038-83158 edited, and items 038-00794 and 038-01511 removed from the document to put them as DNR.
Dec. 21, 2022	Clarifying: 038-01511 remains; 038-00737 and 038-00794 are the removed ones.

Warehouse Catalog	Item Version	Date
038-00745	8	12/21/2022
038-01511	4	12/21/2022
038-83158	3	12/21/2022
038-83225	3	12/21/2022



Equipment Specification
Document No.: 4350.177
Originating Department: Distribution
Engineering

Connector URD Mole, 600 V, Cu/Al, 4, 8 & 9 Outlets



1. Introduction

This is a general specification that covers the minimum requirements for a connector URD Mole, 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

See section 11, table 1 for suggested manufacturer and model.



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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: Twenty (20) units per box each 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
- b. ALUMINUM ASSOCIATION
- c. ASTM
- d. NEMA
- e. ICEA Description

9. DESCRIPTION

9.1. Used as spare part for underground residential distribution.

9.2. Fully insulated submersible service junction manufactured with a moisture-proof rubber insulation for underground residential distribution (URD) service, rated at 600 V.

9.3. The outlets shall be with removable sealing covers and capable of accepting different force-fit rubber sleeves tap kits (see section 11, table 1 for number of outlets, conductor range, and equipment approximate length).

9.4. Shall be suitable for copper (Cu) and aluminum (Al) conductors.

9.5. Shall have the following characteristics:

- a. Material: Aluminum alloy (RDM Models)
Copper alloy (ZM & ZMT Models, rated at 2500 Amps)
- b. Connector type: Mole



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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. Table1: Warehouse and Asset Suite Identification Number

Item	Warehouse Catalog #	Asset Suite #	Outlets & Conductor Range	Approximate Overall Length	Suggested Manufacturer & Model
1	038-00745	54674	4 one-hole outlets: 12 to 4/0 AWG	6" (15.24 cm)	Hubbell, Burndy (URD Mole RDM428)
2	038-01511	56914	8 one-hole outlets: 12 to 4/0 AWG	11.75" (29.84 cm)	Hubbell, Burndy (URD Mole RDM828)
3	038-83158	83158	8 outlets: 2 AWG to 500 MCM	15" (38.1 cm)	Hubbell, Burndy (URD Mole ZM825B)
4	038-83225	83225	9 outlets: 2 AWG to 500 MCM	16" (40.64 cm)	Burndy (URD Mole ZMT925B)

12. Proposal Information

12.1. Submitted proposals must include:

- a. Technical information
- b. Table of Compliance completed by the bidder with reference.

– End of Specification –



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Appendix



Equipment Specification
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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 4350.177.		
2	Industry Standards	The Proponent complies with the industry standards established in the specification document. (AA, ASTM, ICEA, IEEE & NEMA)		
3	Material	<ul style="list-style-type: none">• Aluminum, Tin Plated for copper and aluminum conductors (RDM Models)• Copper, Tin Plated for copper and aluminum conductors (ZM & ZMT Models)• Polyethylene or Plastisol Insulation Sleeve, 600V, fully submersible		
4	Connector Type	Mole		
5	Outlets & Conductor Range	<ul style="list-style-type: none">• 038-00745: 4 One-hole & 12 - 4/0 AWG• 038-01511: 8 One-hole & 12 - 4/0 AWG• 038-83125: 8 outlets & 2 AWG - 500 MCM• 038-83225: 9 outlets & 2 AWG - 500 MCM		
6	Approximate Overall Length	<ul style="list-style-type: none">• 038-00745: 6"• 038-01511: 11.75"• 038-83125: 15"• 038-83225: 16"		











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Final Audit Report

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