



Document Title:

URD Bus Bar Connector, 600 V, 6 Outlets

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4350.178

Originating Department:

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1

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Version History

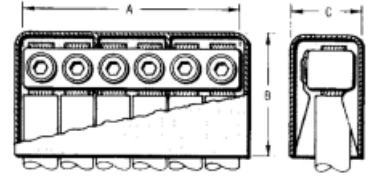
Date	Revision Comments
Apr. 28, 2022	PREPA to LUMA format. Item 038-00760 description modified (Ver. 7).
May. 19, 2022	Item 038-00760 model changed (Ver. 8).
Sep. 11, 2023	General format modifications, document name changed, Item 038-00760 description and model modified (Ver. 9), and Item 038-85336 created (Ver. 1).

Warehouse Catalog	Version	Date
038-00760	9	09/11/2023
038-85336	1	09/11/2023



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1. Introduction

This is a general specification that covers the minimum requirements for URD bus bar connectors 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 equipment/material.

2. Special Requirements

Samples shall be furnished as requested by LUMA Energy. Vendors that have supplied this equipment/material to PREPA/LUMA on previous orders will not have to furnish samples at bid opening. The equipment/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. Literature

Descriptive and technical literature must be supplied by the 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. Evidence of PREPA's and/or LUMA Energy's approval of the equipment/material shall be supplied by the 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. Compatible with

- 5.1. For compatible manufacturer and model see Table 1.
- 5.2. These models are examples of the equipment/material described in this document and do not represent a preference. LUMA will evaluate equally any model not listed here during any acquisition event.

6. Packaging

All equipment/material 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.



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7. Number Per Package (Logistics)

Standard package: Twenty (25) units per box each or as requested by LUMA.

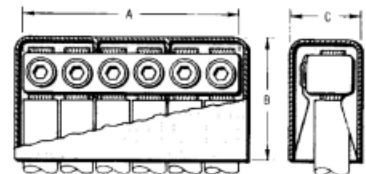
8. Acceptance Criteria

- 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. The bus bar connector is used for cable taps inside circular and 12" x 12" pedestals in underground residential distribution system.
- 9.2. Shall be suitable for copper and aluminum conductors. See Table 1 for reference models.
- 9.3. One model (038-00760) shall be made of high conductivity copper alloy for copper conductors.
- 9.4. The other model (038-85336) shall be dual rated made of aluminum, tin plated, for aluminum and copper conductors. Each outlet shall be pre-filled with an electrical joint compound designed to avoid galvanic corrosion between dissimilar materials (AL/CU).
- 9.5. Each model shall be supplied with a removable polyethylene or plastisol insulation cover rated at 600V for underground residential distribution (URD) service.
- 9.6. Each model shall have six (6) outlets with fastening bolts, Allen wrench type, capable of accepting a range from 6 AWG solid to 4/0 AWG stranded conductor. The aluminum model could reach 250 MCM.
- 9.7. Approximate dimensions, cover included, as follow:

- a. Length (A): 5-1/8" (13.02 cm)
- b. Height (B): 2-3/4" (6.98 cm)
- c. Width (C): 1-5/8" (4.13 cm)





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10. Inspection

The acceptance of any equipment/material 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 equipment/material 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).

12. Table 1: Warehouse and Asset Suite Identification Number

Item	Warehouse Catalog #	Asset Suite #	Material	Compatible Manufacturer & Model
1	038-00760	54676	Copper	Burndy (K6P28C)
2	038-85336	85336	Aluminum, Tin Plated	ABB - Homac (ABC640C with Boot BB11) CMC Lugs (NA250-6CI)

— End of Specification —



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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 4350.178.		
2	Industry Standards	The Proponent complies with the industry standards established in the specification document (AA, ASTM, ICEA, IEEE & NEMA).		
3	Type	Multiple Service Connector		
4	Material	038-00760: Copper		
		038-85336: Dual Rated, Aluminum, Tin Plated		
		Cover: Polyethylene or Plastisol Insulation, 600V rated		
5	Product Requirement	6 outlets with Allen wrench type fastening bolts.		
		Cable Range: #6 - 4/0 AWG (#6 - 250 Al model)		
		Aluminum model pre-filled with an electrical joint compound.		
6	Approximate Dimensions with Cover	Length: 5-1/8"		
		Height: 2-3/4"		
		Width: 1-5/8"		











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Final Audit Report

2023-09-11

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