



Document Title:

Bonding Jumper Flexible Copper Braid

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Material Specifications

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4350.262

Department:

Distribution Standards & Materials

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Version	Date	Revision Comments
1	Sep. 1, 2022	Initial Release.

Warehouse Catalog	Item Version	Date
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Equipment Specification

Document No.: 4350.262

Item No.: 038-83391

Asset Suite: 83391

Originating Department: Distribution Engineering



Bonding Jumper Flexible Copper Braid

1. Introduction

This is a general specification that covers the minimum requirements for the bonding jumper flexible copper braid to be used in the distribution system in Puerto Rico. Further information will be provided by LUMA Energy at the time of order placement regarding 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 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 purchase order and item number.
- 4.2. Packaging labels and tags shall be waterproof.

5. Equal or Approved Equal to

Burndy, catalog number: B3G24N

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.

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7. Number Per Package (Logistics)

Four per package or as requested by LUMA Energy

8. Acceptance Criteria

- 8.1. Test required: certified by external laboratories.
- 8.2. Shall comply with the latest applicable codes, standards, and other regulations:
 - a. Listed to UL 467
 - b. ANSI/NEMA C119.4
 - c. ANSI/NEMA CC1

9. Description

- 9.1. Flexible copper braid to be used as bonding jumper for grounding
- 9.2. Bonding jumper shall consist of a copper braided strap composed of three independent braids bonded together at the ends by a two-hole copper ferrules.
- 9.3. Overall length of the bonding jumper shall be no less than 24 inches (61 cm)
- 9.4. Each terminal shall be 3 inches (7.62 cm) long by 1.69 inches (4.3 cm) wide. Thickness shall be a minimum of 0.69 inch (1.75 cm).
- 9.5. The terminals shall be manufactured with two holes of 0.56-inch (1.42 cm) diameter, compatible with 1/2-inch bolts. The spacing between holes shall be 1.75 inches (4.48 cm), center-to-center, conforming to NEMA Standards CC 1.

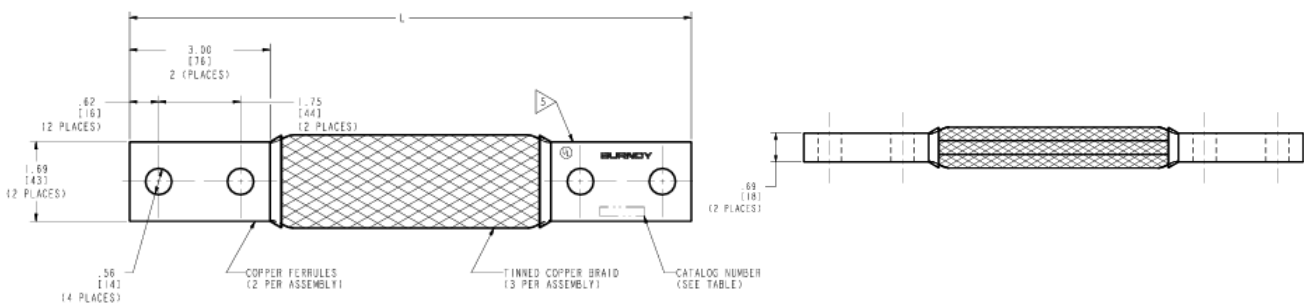


Figure 1: Dimensions

- 9.6. The flexible copper braid must be capable of withstanding at least 960 amperes.



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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. 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 —



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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 (4350.262).		
2	Industry Standards	The Proponent complies with the industry standards established in the specification document.		
3	Material	Copper		
4	Number of Braids	3		
5	Overall Length	24 inches		
6	Ferrules Dimensions	<ul style="list-style-type: none">• Length: 3 in• Width: 1.69 in• Thickness: 0.69 in		
7	Ferrules Hole Pattern	Two holes, 0.56-inch diameter, 1.75 inch spacing		
8	Electric Characteristics	Withstand at least 960 Amp.		











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Final Audit Report

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