



**Equipment Specification**  
Document No.: 4350.166  
Originating Department: Distribution Engineering



## **Connector Service Entrance Sleeves (Strand to Strand)**

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### **1. Introduction**

This is a general specification that covers the minimum requirements for the connector service entrance sleeves for stranded-to-stranded cables to be used in overhead distribution lines 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 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, item number, name and size, net and gross weight, manufacturer's name, and lot number.
- 4.2. Labels and tags shall be waterproof.

### **5. Equal or Approved Equal to**

See table 1 for references.



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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)**

One hundred (100) units per box or as required by LUMA Energy.

**8. Acceptance Criteria**

- 8.1. Test required: certified by external laboratories.
- 8.2. Latest applicable codes, standards, and other regulations:
  - a. ANSI/NEMA CC2

**9. Description**

- 9.1. Each unit shall be clearly marked with the installation die index number. Indications which show the installer the correct number of crimps and the spacing required shall be furnished.
- 9.2. Service entrance sleeve aluminum connector. Sleeve design service entrance (SE) aluminum connector to accommodate neutral strands of type SE conductors as well as other conductors.
- 9.3. Shall accommodate the conductor sizes specified in table 1 below.

Warehouse Identification	Asset Suite	Equal or approved equal to	Conductor sizes	
			Side 1	Side 2
002-08934	56175	Burndy Corp. Insulink, Catalog No. ES2R4W	No. 1 stranded aluminum, or No. 2 stranded copper, or No. 2 ACSR	No. 5, 6 stranded aluminum, or No. 4 solid copper, or No. 6 ACSR
002-08942	56176	Burndy Corp. Insulink, Catalog No. ES2R2W	No. 1 stranded aluminum, or No. 2 stranded copper, or No. 2 ACSR	No. 3, 4 stranded aluminum, or No. 2 solid copper, or No. 4 ACSR



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Warehouse Identification	Asset Suite	Equal or approved equal to:	Conductor sizes	
			Side 1	Side 2
002-08959	56177	Burndy Corp. Insulink, Catalog No. ES2R2R	No. 1 stranded aluminum, or No. 2 stranded copper, or No. 2 ACSR	No. 1 stranded aluminum, or No. 2 stranded copper, or No. 2 ACSR
002-08975	56178	Burndy Corp. Insulink, Catalog No. ES25R25R	1/0 ACSR or aluminum & copper 1/0 strand, 1-19 stranded copper	No. 1/0, 1 ACSR; 1/0 stranded aluminum & copper
002-08983	56179	Burndy Corp. Insulink, Catalog No. ES25R2R	1/0 stranded No. 1-19, aluminum or copper, or No. 1 ACSR	No. 2 or No. 1 stranded aluminum or copper, or No. 2 ACSR

- 9.4. To be installed with standard tooling. Die index: BG or 5/8.
- 9.5. Shall be furnished pre-filled with an oxide inhibiting compound.

**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.

— End of Specification —



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**Document History**

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