



## Tap Kit, 600V, For Cu/Al Conductor

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### 1. Introduction

This is a general specification that covers the minimum requirements for tap kit for copper/aluminum conductor to be used in the electrical 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

Hubbell (Burndy "URD Mole"). For model see section 12 table 1.



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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: see section 12 table 1 for package quantity or as requested by LUMA.

### 8. Acceptance Criteria

8.1. Test required: certified by external laboratories.

8.2. Latest applicable codes, standards, and other regulations: EEI.

### 9. Description

9.1. This equipment is used as spare part for underground (URD) junction connector in secondary power distribution system.

9.2. This URD force-fit aluminum tap kit shall be rated at 600V.

9.3. Shall be suitable for copper and aluminum conductors. For conductor range see section 12 table 1.

9.4. Shall consist of a compression aluminum terminal lug, mounting hardware, and a pre-lubricated force-kit rubber sleeve.

9.5. The terminal lug shall be furnished pre-filled and capped with an oxide inhibiting joint compound.

9.6. Shall be installed with standard tooling such as Burndy Y35 or MD6. For die set see section 12 table 1.

### 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.



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### 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)

### 12. Table 1: Warehouse and Asset Suite Identification Number

Item	Warehouse Catalog #	Asset Suite #	Conductor Range	Die Set	Package Quantity	Suggested Model
1	038-01305	55010	2 AWG stranded to 1 AWG solid CU / AL	U-BG and W-BG (EEI Index: 8A)	10 units/box 20 boxes/package	RYA2UCR
2	038-01354	55015	1/0 stranded CU & 1/0 stranded to 2/0 solid AL	U243 and W243 (EEI Index: 8A)	Indicated by Bidder at Bid Opening	RYA25UCR
3	038-01313	55011	2/0 AWG stranded CU / AL	U249 and W249 (EEI Index: 11A)	Indicated by Bidder at Bid Opening	RYA26UCR
4	038-01321	55012	3/0 AWG stranded CU / AL	U249 and W249 (EEI Index: 11A)	Indicated by Bidder at Bid Opening	RYA27UCR
5	038-01339	55013	4/0 AWG stranded CU / AL	U249 and W249 (EEI Index: 11A)	9 units/box 24 boxes/package	RYA28UCR
6	038-01347	55014	250 MCM CU / AL	U31ART (EEI Index: 13A)	9 units/box 24 boxes/package	RYA29UCR
7	038-01404	55865	500 MCM CU / AL	U34RT (Die Index: 20)	Indicated by Bidder at Bid Opening	RYA34CR-2

— End of Specification —



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### Document History

Item	Version
1	6
2	6
3	3
4	5
5	6
6	7
7	2

**Date** 09/1/2022

**Author** Miguel J. Rios

**Reviewer** Rafael Torres

**Approver Manager** Ricardo Castro

Handwritten signatures in blue ink over horizontal lines. The first signature is above the Author line, the second is above the Reviewer line, and the third is above the Approver Manager line.



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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 (4350.203).		
2	Industry Standards	The Proponent complies with the industry standards established in the specification document. (EEI)		
3	Type	URD Mole, Force-Fit Sleeve		
4	Material	<ul style="list-style-type: none"><li>• Aluminum</li><li>• Suitable for copper &amp; aluminum conductors</li></ul>		
5	Housing	Rubber		
6	Product Requirement	Shall consist of: <ul style="list-style-type: none"><li>• Compression aluminum terminal lug.</li><li>• mounting hardware</li><li>• pre-lubricated force-kit rubber sleeve</li><li>• The terminal lug shall be furnished pre-filled and capped with an oxide inhibiting joint compound.</li><li>• Suitable for models Y35 or MDC, using the die set indicated on table 1 for the different conductor sizes, also on table 1.</li></ul>		
7	Electrical Requirement	<ul style="list-style-type: none"><li>• Rated at 600V</li></ul>		