



Equipment Specification  
Document No: 4350.164  
Originating Department: Distribution Engineering



## Line Tap Compression Connector

### Figure 6

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#### 1. Introduction

This is a general specification that covers the minimum requirements for a line tap compression connector for combination of copper, aluminum, ACSR, compressed and compact conductors to be used in the transmission and distribution systems 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 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

For suggested manufacturers and models see 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)

- 7.1. As required by LUMA Energy.
- 7.2. Minimum pack quantity: One (1) unit per box

#### 8. Acceptance Criteria

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

#### 9. Description

- 9.1. Aluminum line tap compression connector figure 6 type for overhead lines.
- 9.2. Connector must accept combinations of aluminum to aluminum, and aluminum to copper conductors
- 9.3. Each unit shall be clearly and permanent marked with model number, run conductor size range, tap conductor size range, and installation die index number. Must have Indications which show the installer the correct number of crimps and the spacing required.
- 9.4. Connector must come pre-filled with oxide inhibiting compound and stripsealed.
- 9.5. To be installed with standard tooling such as Burndy MD6/7 and Y45. Die index as per Table 1.



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9.6. Table 1 – Conductor sizes:

Warehouse Catalog #	Asset Suite #	Suggested Manufacturer	Model	Length	Conductor Size Range		Die Index / Die Set
					Copper Stranded	ACSR	
002-08439	54253	Burndy	YPC2A8U	0.625 in.	Run: #6-#2 Tap: #14sol.-#8 Al/Cu	Run: #6-#4 Tap: #14sol.-#8 Al/Cu	BG/WBG, UBG
002-83028	83028	Burndy	YPC26R8U	0.75 in.	Run: #1-3/0 Tap: #14sol.-#8 Al/Cu	Run: #2-3/0 Tap: #14sol.-#8 Al/Cu	O/WO, UO
002-83027	83027	Burndy	YPC28U4	1.625 in.	Run: 3/0-4/0 Tap: #6-#3	Run: 3/0-4/0 Tap: #6-#3	D3/MD6, UD3
002-08413	54251	Burndy	YPC28U28	2.75 in.	Run: 3/0-4/0 Tap: 2/0-4/0	Run: 3/0-4/0 Tap: 3/0-4/0	D3/MD6, UD3
002-10658	55917	Burndy	YPC33R26U	2.125 in.	Run: 250-400 MCM Tap: #6sol.-2/0 Al/Cu	Run: 266.8 (18/1)- 397.5 (18/1) Tap: #6-1/0	N/UN, SN
002-10666	56704	Burndy	YPC33R28R	8.875 in.	Run: 250-477 MCM Tap: 2/0-4/0 Al/Cu	Run: 266.8 (18/1)- 397.5 (18/1) Tap: 2/0-4/0	N/UN, SN
002-10674	56705	Burndy	YPC33R33R	8.875 in.	Run: 250-400 MCM Tap: 250-400 MCM	Run: 266.8 (18/1)- 397.5 (18/1) Tap: 266.8 (18/1)- 397.5 (18/1)	N/UN, SN
002-10799	56710	Burndy	YPC38R26U	2.125 in.	Run: 477-600 MCM Tap: #6-2/0 Al/Cu	Run: 397.5 (18/1)- 556.5 (18-1) Tap: #6-1/0	N/UN, SN
002-12217	56585	Burndy	YPC40A32	5.00 in.	Run: 600-800 MCM Tap: 2/0-400 MCM Al/Cu	Run: 556.5 (18-1)- 795(26/7) Tap: 2/0-397.5 (18/1)	T/ST
002-12225	56586	Burndy	YPC40A36	5.00 in.	Run: 600-800 MCM Tap: 397.5-600 MCM Al/Cu	Run: 556.5 (18-1)- 795(26/7) Tap: 336.4 (26/7)- 556.5 (18/1)	T/ST
002-12233	56587	Burndy	YPC40A40	9.875 in.	Run: 600-954 MCM Tap: 600-954 MCM Al/Cu	Run: 556.5 (18-1)- 795(26/7) Tap: 556.5 (18-1)- 795(26/7)	T/ST



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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 —

### Document History

<b>Version</b>	5
<b>Date</b>	07/13/2022
<b>Author</b>	Alex J. Rodríguez
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Handwritten signatures in blue ink over three horizontal lines. The top signature is 'AJR', the middle is 'RT', and the bottom is 'RC'.



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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 4350.164.		
2	Industry Standards	The Proponent complies with the industry standards established in the specification document. (ANSI)		
3	Type	Figure 6 shape, aluminum compression line tap connector for aluminum to aluminum or aluminum to copper conductors		
4	Material	Aluminum-unplated		
5	Product Requirement	Connector must accept combinations of aluminum to aluminum, and aluminum to copper conductors		
6	Product Requirement	Come pre-filled with an oxide inhibiting compound stripealed		
7	Product Requirement	shall be clearly and permanent marked with model number, run conductor size range, tap conductor size range, and installation die index number		
8	Product Requirement	To be installed with standard tooling such as Burndy MD6/7 and Y45.		
9	Warehouse Number:	ACSR Conductor Size Range:		
10	002-08439	Run: #6-#4 Tap: #14sol.-#8 Al/Cu		
11	002-83028	Run: #2-3/0 Tap: #14sol.-#8 Al/Cu		
12	002-83027	Run: 3/0-4/0 Tap: #6-#3		
13	002-08413	Run: 3/0-4/0 Tap: 3/0-4/0		
14	002-10658	Run: 266.8 (18/1)-397.5 (18/1) Tap: #6-1/0		
15	002-10666	Run: 266.8 (18/1)-397.5 (18/1) Tap: 2/0-4/0		
16	002-10674	Run: 266.8 (18/1)-397.5 (18/1) Tap: 266.8 (18/1)-397.5 (18/1)		
17	002-10799	Run: 397.5 (18/1)-556.5 (18-1) Tap: #6-1/0		
18	002-12217	Run: 556.5 (18-1)-795(26/7) Tap: 2/0-397.5 (18/1)		
19	002-12225	Run: 556.5 (18-1)-795(26/7) Tap: 336.4 (26/7)-556.5 (18/1)		
20	002-12233	Run: 556.5 (18-1)-795(26/7) Tap: 556.5 (18-1)-795(26/7)		