



**Power Booster
Wedge Connector**

Equipment Specification
Document No.: 4752.212
Item No.: 086-73689
Originating Dept: Transmission Eng.

	Document Title: Power Booster Wedge Connector		
	Document Type: Equipment Specification	Document No.: 4752.212	
Department: Transmission Engineering	Version: 01	Issue Date: 5/30/2022	Effective Date: 5/30/2022

<p>Author Emmanuel E Rivera Cruz Designer, Transmission & Substation Engineering</p> <p>Reviewer 1 Rene Maldonado Supervisor, Line Engineering Standards</p> <p>Reviewer 2 Oscar Venegas Lead Engineer, Trans</p> <p>Approver Walter Carrasquillo Alberty Manager, T&S Standards and Materials</p>	Signature and Date <u>Emmanuel E Rivera Cruz (Jun 6, 2022 12:07 EDT)</u>
	Signature and Date <u>Rene Maldonado (Jun 6, 2022 12:56 EDT)</u>
	Signature and Date <u>Oscar E Venegas (Jun 15, 2022 08:51 EDT)</u>
	Signature and Date <u>Walter Carrasquillo (Jun 15, 2022 14:24 EDT)</u>

<p>Management Approval</p> <p>Heriberto González Section Manager, Standards</p> <p>Darrel Wilvers Director, Asset Management</p>	Signature and Date <u>Heriberto Gonzalez (Jun 16, 2022 09:46 EDT)</u>
	Signature and Date N/A

Version History					
Version	Date	Revision Comments	Author	Reviewers	Approver
00	July 12, 2021		Rene Maldonado	Heriberto Gonzalez	Walter Carrasquillo
01	May 30, 2022	General revision for final approval	Emmanuel E. Rivera	Rene Maldonado Oscar Venegas	Walter Carrasquillo



1.0 General

- 1.1. This specification describes the minimum requirements of power booster for wedge connector.
- 1.2. The wedge connector shall be designed, rated, manufactured, and tested in accordance with the latest applicable IEEE, NEMA, ANSI, ASTM, and NEC Standards¹. If the Vendor does not demonstrate its compliance with the applicable standards, these specification requirements and supply the requested documents, the bid may be rejected.
- 1.3. The Vendor shall provide LUMA Energy with a list of recommended spare parts, tools, and service equipment, including prices.

2.0 Specific Name

- 2.1. Power Booster (PB) for Wedge connector (Run & Tap) for ACSR conductors – 3/0, 556.5 & 1192.5.

3.0 Basic Use

- 3.1. To secure the two ACSR conductors to be connected at opposing ends of the wedge connector at dead structures in distribution lines.

4.0 Special Requirements

- 4.1. Samples shall be furnished if requested by LUMA.
- 4.2. LUMA may required one (1) unit properly labeled for testing and analysis.
- 4.3. Descriptive and technical literature shall be supplied if requested by LUMA.
- 4.4. Vendors that have supplied this material to PREPA in previous orders, will not have to furnish samples at bid opening.
- 4.5. They shall be required to show evidence of LUMA's approval of the equipment if requested.

5.0 Marking and packaging

- 5.1. Containers shall be marked outside with LUMA's purchase order number and code number.
- 5.2. Vendor shall prepare material and equipment for shipment in such a manner as to facilitate handling and protection from damage.
- 5.3. All material shall be packaged and marked in such a way that the receiving warehouse can readily identify and send in one (1) complete unit to a field location without opening crates or boxes to sort items and/or parts.

¹ IEEE = Institute of Electrical and Electronics Engineers
NEMA = National Electric Manufacturers Association
ANSI = American National Standard Institute
ASTM = American Society of Testing and Materials
NEC = National Electric Code.



6.0 Labeling

- 6.1. Each unit shall be clearly marked with the installation tool to be used, either with a color coding or numbering.

7.0 Equal or approved equal to:

- 7.1. Burndy Corp., Catalog number – WPBYNBOX25 Power boosters YELLOW
- 7.2. Ampact Cartridge Color required - yellow

8.0 Number of pieces per package:

- 8.1. Each box with twenty five (25) power boosters.

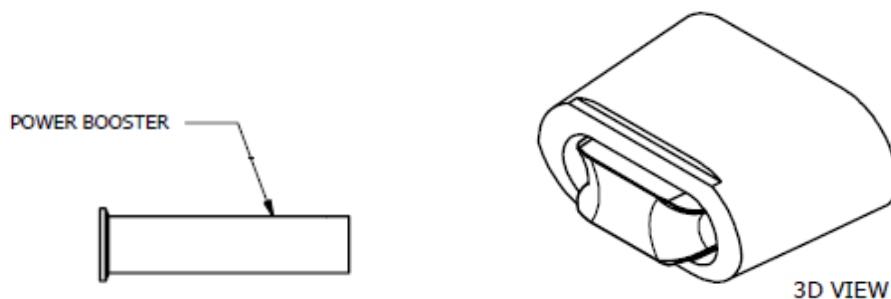
9.0 Description

- 9.1. Compose of a finished metal alloy cartridge base with plastic shell, contains various components of pyrotechnic mixture which are completely sealed within.
- 9.2. Mechanism to be used with aluminum wedge connector that is power-driven between the run and tap cables ACSR locking them into a “C” shaped aluminum alloy spring body.
- 9.3. Installation tool – Burndy Corp., Catalog – Type WTRBYK,
Ampact Tool – AMP-0-1443414-1 Large
- 9.4. Power Boosters – Yellow Coded

10. Inspection

- 10.1. 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 shall not prevent subsequent rejection if such material is found to be defective later.

11. Drawing



— End of Specification —


4752.212 Power Booster for Wedge Connector


Final Audit Report


2022-06-16


Created:	2022-06-06
By:	Emmanuel E Rivera Cruz (emmanuel.riveracruz@lumapr.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAA8U5PV1WuRipfwXnLifXKDnxbCA_DDv8b


"4752.212 Power Booster for Wedge Connector" History


 Document created by Emmanuel E Rivera Cruz (emmanuel.riveracruz@lumapr.com)
2022-06-06 - 4:06:18 PM GMT


 Document e-signed by Emmanuel E Rivera Cruz (emmanuel.riveracruz@lumapr.com)
Signature Date: 2022-06-06 - 4:07:54 PM GMT - Time Source: server


 Document emailed to Rene Maldonado (rene.maldonado@lumapr.com) for signature
2022-06-06 - 4:07:56 PM GMT


 Email viewed by Rene Maldonado (rene.maldonado@lumapr.com)
2022-06-06 - 4:56:11 PM GMT


 Document e-signed by Rene Maldonado (rene.maldonado@lumapr.com)
Signature Date: 2022-06-06 - 4:56:15 PM GMT - Time Source: server


 Document emailed to Oscar E Venegas (oscar.venegas@lumapr.com) for signature
2022-06-06 - 4:56:17 PM GMT


 Email viewed by Oscar E Venegas (oscar.venegas@lumapr.com)
2022-06-08 - 5:01:43 PM GMT


 Email viewed by Oscar E Venegas (oscar.venegas@lumapr.com)
2022-06-11 - 5:01:44 PM GMT


 Email viewed by Oscar E Venegas (oscar.venegas@lumapr.com)
2022-06-12 - 5:01:42 PM GMT


 Email viewed by Oscar E Venegas (oscar.venegas@lumapr.com)
2022-06-13 - 5:01:44 PM GMT


 Email viewed by Oscar E Venegas (oscar.venegas@lumapr.com)
2022-06-14 - 5:01:41 PM GMT


-  Document e-signed by Oscar E Venegas (oscar.venegas@lumapr.com)
Signature Date: 2022-06-15 - 12:51:19 PM GMT - Time Source: server- Signature captured from device with phone number XXXXXXXX2079


-  Document emailed to Walter Carrasquillo (walter.carrasquillo@lumapr.com) for signature
2022-06-15 - 12:51:21 PM GMT


-  Email viewed by Walter Carrasquillo (walter.carrasquillo@lumapr.com)
2022-06-15 - 12:51:26 PM GMT

-  Document e-signed by Walter Carrasquillo (walter.carrasquillo@lumapr.com)
Signature Date: 2022-06-15 - 6:24:50 PM GMT - Time Source: server

-  Document emailed to Heriberto Gonzalez (heriberto.gonzalez@lumapr.com) for signature
2022-06-15 - 6:24:52 PM GMT

-  Email viewed by Heriberto Gonzalez (heriberto.gonzalez@lumapr.com)
2022-06-15 - 6:24:57 PM GMT

-  Document e-signed by Heriberto Gonzalez (heriberto.gonzalez@lumapr.com)
E-signature obtained using URL retrieved through the Adobe Acrobat Sign API
Signature Date: 2022-06-16 - 1:46:24 PM GMT - Time Source: server

-  Agreement completed.
2022-06-16 - 1:46:24 PM GMT