LUMA People first. Safety always.	Document Title: **Full Tension Splice Kit for ACSS**	
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Related/Referenced Documents

N/A

Version History

Version	Date	Revision
01	Feb. 26, 2024	Initial Release
02	Jul. 16, 2024	Shared documents with Distribution
03	Jul. 2, 2025	General format modifications. Content revision of all sections.
04	Oct. 22, 2025	Revision of Section 9. Changed Document Number (Legacy Number: 4752.337) to new Engineering Records nomenclature number 4751.50.337. New item 002-87812 added. Item 002-80777 added from doc. 4752.196. This document supersedes document 4752.196.

Item Version History

Warehouse Catalog #	Asset Suite #	Version	Date
002-87812	87812	01	10/22/2025
002-51479	51479	04	10/22/2025
002-80777	80777	03	10/22/2025

Table of Contents

1. Introduction

This is a general specification that covers the minimum requirements for full tension splice kit for ACSS conductor to be used in the Transmission 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 characteristics of the product.

2. Special Requirements

Samples shall be furnished as requested by LUMA Energy. Vendors that have supplied this product to LUMA on previous orders, will not have to furnish samples at bid opening. The product will be received at LUMA's general warehouse (017) at Palo Seco, Puerto Rico. Shipping will include transportation and unloading at the indicated warehouse.

3. Literature

3.1. Descriptive and technical literature must be supplied by the vendor at time of bidding. This literature must include, but is not limited to, details of material, drawings, documented testing, and instructions for use and installation. **The literature must be an official document from and certified by the manufacturer.** Failure to submit documents on time and duly certified by the manufacturer will cause bidder disqualification.

3.2. If required by LUMA, final drawings and documentation shall be submitted by the vendor before the manufacturing and shipping process for approval.

4. Compatible with

For compatible manufacturer and model see Table 1. These models are examples of the product described in this document and do not represent a preference. LUMA will evaluate equally any model not listed here during any acquisition event

5. Markings

5.1. Containers shall be marked outside with LUMA Energy's purchase order and item number.

5.2. Individual package(s) shall be clearly marked with manufacturer name and item information (part number, serial number, quantity, etc.).

5.3. Packaging labels and tags shall be waterproof.

6. Packaging

6.1. All products 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.

6.2. A list of all parts included in the container and/or package must be provided at delivery time so the receiving personnel can verify that everything requested is present, avoiding any delay in the receiving process.

7. Number Per Package (Logistics)

Standard package: One (1) unit per box or as requested by LUMA.

8. Acceptance Criteria

8.1. Test required: certified by external qualified laboratories.

8.2. Product shall be manufactured in accordance with the latest issue below (section 8.3). When conflicts occur between purchaser's specifications and the latest issue below, the purchaser's specification shall prevail.

8.3. Latest applicable codes, standards, and other regulations:

ANSI C119.4 American National Standard for electric connectors used with aluminum and/or copper conductors in power distribution and transmission lines.

RUS Rural Utilities Service

RoHS Restriction of Hazardous Substances (RoHS) Directive, which restricts the use of certain hazardous substances in electrical and electronic equipment.

8.4. If any other standard different from the ones indicated in this document is used, the supplier must provide information showing compatibility with the required ones.

9. Description

9.1. Full tension splice, two-piece, for ACSS transmission lines.

9.2. Shall be compatible with ACSS (High Strength) with temperature up to 250°C.

9.3. Kit shall include the outer aluminum and inner steel sleeves.

9.4. Full tension splice shall be able to maintain 95% of the conductor rated strength, as per ANSI C119.4.

9.5. Shall be compatible with standard tooling Y60 compression tool. For die index see Table 1.

9.6. Splice connectors must have permanent marking showing model, conductor size range, and die index.

10. Inspection

10.1. Upon inspection of incoming product, the purchaser reserves the right to refuse product shipments and to determine the acceptability or rejection of the product received. The supplier shall be liable for all costs incurred for a product that is rejected.

10.2. The acceptance of any product 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 products were found later to be defective.

11. Proposal Information

11.1. Submitted proposals must include:

a. Technical information, drawings, and tests.

b. Table of Compliance completed by the bidder with reference (see Appendix 1).

12. Table 1: Warehouse and Asset Suite Identification Number

Warehouse Catalog #	Asset Suite #	Conductor Size (ACSS)	Conductor Diameter (in.)	Outer Aluminum Sleeve Length (in)	Die Index/Y60BHU		Compatible model
					Outer Aluminum Sleeves	Inner Steel Sleeves	
002-87812	87812	266.8 (26/7)	0.642	23.2	76AH	10SH	Hubbell TJA1109SSAC
002-51479	51479	556.5 (24/7)	0.914	28.74	722/L722	723/L723	Burndy YTS39RT43RSHT
002-80777	80777	795 (26/7)	1.108	36.96	725/L725	726/L726	Burndy YTS451RT48RSHT

Appendix

Appendix 1: Table of Compliance

Line	Description	Pass/Fail (P / F)	Comments
1	Compliance with the document 4751.50.337		
2	Industry standards: ANSI C119.4.		
3	Tech. info. and drawings provided.		
4	Compatible with ACSS (High Strength) with temperature up to 250°C.		
5	Kit shall include the outer aluminum and inner steel sleeves.		
6	Full tension splice shall be able to maintain 95% of the conductor rated strength		
7	Compatible with standard tooling Y60 compression tool (see die index).		
8	Splice connectors must have permanent marking showing model, conductor size range, and die index.		

NOTE: This table is only a checklist for reference. The compliance must be with the complete document. Filling out the table with "PASS" won't be accepted as a compliance without the technical information required to certify it.

4751.50.337 Full Tension Splice Kit ACSS

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