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**Version History**

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01	Apr. 13, 2022	PREPA to LUMA Format for Item 002-09981.
02	Sep. 29, 2022	Cover Page added and sections 9.1 and 9.2 edited. Item 002-09981 (4/0) code edited.
03	Oct. 10, 2022	Item 002-10377 added to this document.
04	Aug. 07, 2023	Items 002-85165, 002-85166, 002-85167, 002-85168, and 002-85169 created. Description Section, Table 1, and Table of Compliance (TOC) modified.
05	Oct. 25, 2023	General format and description section modifications. Item 002-09940 added to this document.
06	Jan. 21, 2026	General format modifications. Item 002-85168 removed. Document number changed from 4350.091 (Legacy Number) to 4300.50.091 (New Engineering Records Nomenclature Number).





Item Version History

Warehouse Catalog #	Asset Suite #	Version	Date
002-85165	85165	3	1/21/2026
002-09940	56702	5	1/21/2026
002-85166	85166	3	1/21/2026
002-85167	85167	3	1/21/2026
002-82678	82678	5	1/21/2026
002-85169	85169	3	1/21/2026
002-10377	55910	4	1/21/2026
002-04446	55430	8	1/21/2026
002-09965	55892	9	1/21/2026
002-09981	55893	8	1/21/2026
002-13454	55838	5	1/21/2026



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## 1. Introduction

This is a general specification that covers the minimum requirements for single sleeve, full tension compression splices to be used in the distribution and transmission 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 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 (011) 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)**

- 7.1. Box quantity: one (1) unit per box.
- 7.2. Standard package: Twenty-five (25) Boxes per package or as requested by LUMA Energy.

#### **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:
- a. ANSI C119.4 Class 1: For connectors used for making electrical connections between aluminum-to-aluminum or aluminum-to-copper or copper-to-copper conductors used on distribution and transmission lines. Class 1 for tensile strength equal to or greater than 95% of the rated conductor strength.
  - b. RUS accepted
- 8.4. If any other standards different from the ones indicated in this document are used, the supplier must provide information showing compatibility with the required ones.

## **9. Description**

- 9.1. Single sleeve, full tension splice compression connector used to splice ACSR, AAC (stranded, compressed), AAAC, Alumo-weld, and copper conductors in overhead distribution lines.
- 9.2. Made of heavy wall aluminum alloy of high conductivity for several models and unplated copper for others. See Table 1 for details.
- 9.3. Shall be designed to withstand 95% or more of the conductor's rated strength.
- 9.4. To be installed with standard tooling and dies. For die index see Table 1.
- 9.5. Shall have a cable stop inside in the middle.
- 9.6. Must come factory filled with oxide inhibitor, strip sealed and capped.
- 9.7. Shall come marked with manufacturer name, conductor size, and die reference.
- 9.8. For specific electrical and mechanical characteristics see Table 1.

## **10. Inspection**

- 10.1. Upon inspection of incoming products, the purchaser reserves the right to refuse their 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 or out of compliance.

## **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 #	Size Range	Sleeve Length	Die Index Die Set (crimps)	Compatible Manufacturer & Model
002-85165	85165	123.3 (7) AAAC 1/0 (6-1) ACSR	13.875" (35.24 cm)	Die Index: C, 167, 247, 660, or 702 Die Set (crimps): W-C (32), W660 (16), W702 (14), U167 (15), 660 (8), U247 (8)	Burndy (YDS25RL)
002-09940	56702	Alumo-Weld Messenger 7 #7	14.5" (36.83 cm)	Die Index: 678 or 726 Die Set (crimps): U678 (19)	Burndy (YDS7M7T)
002-85166	85166	195.7 (7) AAAC 3/0 (6-1) ACSR	18.25" (44.36 cm)	Die Index: 658 Die Set (crimps): U658 (16)	Burndy (YDS27RL)
002-85167	85167	394.5 (19) AAAC 336.4 (18/1) ACSR	14.5" (36.83 cm)	Die Index: 642 Die Set (crimps): U642 (12)	Burndy (YDS32LT)
002-82678	82678	652.4 (19) AAAC 556.5 (24-7) ACSR	12.75" (32.39 cm)	Die Index: 261 Die Set (crimps): U261 (9)	Burndy (YDS361AT)
002-85169	85169	927.2 (37) AAAC	21.36" (52.25 cm)	Die Index: 648 Die Set (crimps): L648 (7)	Burndy (YDS45LT)
002-10377	55910	#4 Solid CU	2.5" (6.35 cm)	Die Index: 162 Die Set: W162 (4)	Burndy (YDS4W)
002-04446	55430	#2 (7 strand) CU	3.625" (9.21 cm)	Die Index: 163 Die Set: W163, U163	Burndy (YDS2C)
002-09965	55892	1/0 (7 strand) CU	5.375" (13.65 cm)	Die Index: 165 Die Set: W165, U165	Burndy (YDS25)
002-09981	55893	4/0 (19 strand) CU	6.875" (17.46 cm)	Die Index: 168 Die Set: U168	Burndy (YDS28)
002-13454	55838	300 (37 strand) CU	8.125" (20.64cm)	Die Index: 170 Die Set: U170	Burndy (YDS30)

- End of Specification -

## Appendix

## Appendix 1: Table of Compliance

Line	Description	Pass/Fail (P / F)	Comments
1	Compliance with the document 4300.50.091.		
2	Industry standards: ANSI C119.4 Class 1. If different ones are used, information showing compatibility is required.		
3	Tech. info., drawings, and tests provided.		
4	Compression Connector, Single Sleeve, Full Tension		
5	Heavy wall aluminum alloy or pure copper of high conductivity, unplated.		
6	Cable-stop in the middle.		
7	Pre-filled with oxide inhibitor.		
8	Sleeve Length as per Table 1.		
9	Die Index & Set as per Table 1.		
10	Size Range as per Table 1.		

**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.**