



Document Title:

Compression Splices Two-Sleeve Full Tension

Document Type:

Material Specifications

Document No.:

4350.092

Originating Department:

Distribution Standards & Materials

Version:

2

Effective Date:

Aug 17, 2023

Shared documents: T&S T&D T&TM D&TM Luma Engineering

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Version History

Date	Revision Comments
Dic. 03, 2021	PREPA to LUMA Format
Apr. 13, 2022	TOC added and Sections 3, 4, and 7 modified.
Jul. 12, 2022	Signature Format modified and New Codes assigned (002-83031 and 002-83032)
Nov. 23, 2022	Cover Page added and New Code reactivated (002-08660).
Mar. 20, 2023	Item 002-08660 removed (will be identified as DNR). General format modifications, including Table 1 and TOC.
Aug. 16, 2023	General format, Table 1, and TOC modifications. Item 002-83032 removed (Drake conductor will be used no more). Document changed as shared between T&D for Item 002-13587.

Warehouse Catalog	Version	Date
002-08678	8	08/16/2023
002-08686	8	08/16/2023
002-83031	4	08/16/2023
002-09601	10	08/16/2023
002-11458	7	08/16/2023
* 002-13587	6	08/16/2023



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Compression Splices Two-Sleeve Full Tension

1. Introduction

This is a general specification that covers the minimum requirements for two-sleeves, full tension compression splice used in the distribution and 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 electrical and mechanical characteristics of the equipment/material.

2. Special Requirements

Samples shall be furnished as requested by LUMA Energy. Vendors that have supplied this equipment/material to LUMA on previous orders will not have to furnish samples at bid opening. The equipment/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. Literature

Descriptive and technical literature must be supplied by the 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 Energy. Evidence of PREPA's and/or LUMA Energy's approval of the equipment/material shall be supplied by the 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. Compatible with

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

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6. Packaging

All equipment/material 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. Box quantity: One (1) unit per box.
- 7.2. Standard package: One hundred (100) boxes per package or as requested by LUMA Energy.

8. Acceptance Criteria

- 8.1. Test required: certified by external laboratories.
- 8.2. Latest applicable codes, standards, and other regulations:
 - a. ANSI C119.4 Class 1: full tension

9. Description

- 9.1. Two-sleeve, full tension splice compression connectors used to splice ACSR (stranded, compressed, compact) conductors in overhead distribution lines.
- 9.2. Two-pieces, full tension splice connector consist of aluminum outer sleeve and steel inner sleeve.
- 9.3. The inner sleeve shall have a cable-stop at center.
- 9.4. To be installed with standard tooling and dies.
- 9.5. To facilitate the application of an oxide inhibiting compound, the connector must be provided with filler holes and corresponding plugs to seal them.
- 9.6. Conductor size range and die index as per 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.

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).

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12. Table 1: Warehouse and Asset Suite Identification Number

Warehouse Catalog #	Asset Suite #	Compatible Manufacturer	Compatible Model	Inner Sleeve	Outer Sleeve	Conductor Size Range
				Steel	Aluminum	ACSR
002-08678	54260	Burndy	YDS25R	YDS25RP2 (4.75 in) Die Index 242 W242, U242	YDS25RP1 (17.00 in) Die Index 243 W243, U243	1/0 (6/1) Raven
002-08686	54261	Burndy	YDS27R	YDS27RP2 (5.25 in) Die Index 248 W248, U248	YDS27RP1 (16.75 in) Die Index 247 W247, U247	3/0 (6/1) Pigeon
002-83031	83031	Burndy	YDS28R	YDS28RP2 (5.13 in) Die Index 248 W248, U248	YDS28RP1 (18.88 in) Die Index 249 W249, U249	4/0 (6/1) Penguin
002-09601	56679	Burndy	YDS30R	YDS30RP2 (6.00 in) Die Index 250 U250	YDS30RP1 (19.75 in) Die Index 251 U251	266.8 (26-7) Partridge
002-11458	55995	Burndy	YDS321R	YDS25RP2 (4.75 in) Die Index 242 W242, U242	YDS321RP1 (17.88 in) Die Index 490 U490	336.4 (18-1) Merlin
*002-13587	57692	Burndy	YDS392R	YDS41RP2 (8.625 in) Die Index 305 U305	YDS39RP1 (26.125 in) Die Index 608 U608	556.5 (24-7) Parakeet

* Item 002-13587 is also used in the 38kV transmission system.

— End of Specification —

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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 4350.092.		
2	Industry Standards	The Proponent complies with the industry standards established in the specification document (ANSI).		
3	Type	Two sleeve, full tension for ACSR conductor		
4	Material	Outer Sleeve: unplated aluminum		
		Inner Sleeve: steel		
5	Product Requirement	Outer sleeve with oxide inhibitor filler hole and plug.		
		Inner sleeve with cable-stop at center.		
		Oxide inhibitor compound included.		
6	Conductor Size Range	As per Table 1		
7	Die Index	As per Table 1		











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Final Audit Report

2023-08-17


Created:	2023-08-16
By:	Wanda Ocasio (wanda.ocasio@lumapr.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAoLuT2LocC_enV10_9UZgclPO2lq3v79d

"4350.092 Compression Splices 2-Sleeve FT (8-16-2023)" History

-  Document created by Wanda Ocasio (wanda.ocasio@lumapr.com)
2023-08-16 - 3:38:49 PM GMT
-  Document emailed to Miguel Rios (miguel.rioslopez@lumapr.com) for signature
2023-08-16 - 3:42:02 PM GMT
-  Email viewed by Miguel Rios (miguel.rioslopez@lumapr.com)
2023-08-16 - 6:00:22 PM GMT
-  Document e-signed by Miguel Rios (miguel.rioslopez@lumapr.com)
Signature Date: 2023-08-16 - 6:00:56 PM GMT - Time Source: server
-  Document emailed to Rene Maldonado (rene.maldonado@lumapr.com) for signature
2023-08-16 - 6:00:58 PM GMT
-  Email viewed by Rene Maldonado (rene.maldonado@lumapr.com)
2023-08-17 - 12:06:50 PM GMT
-  Document e-signed by Rene Maldonado (rene.maldonado@lumapr.com)
Signature Date: 2023-08-17 - 12:07:09 PM GMT - Time Source: server
-  Document emailed to Rafael Torres-Martinez (rafael.torresm@lumapr.com) for signature
2023-08-17 - 12:07:10 PM GMT
-  Email viewed by Rafael Torres-Martinez (rafael.torresm@lumapr.com)
2023-08-17 - 12:25:24 PM GMT
-  Document e-signed by Rafael Torres-Martinez (rafael.torresm@lumapr.com)
Signature Date: 2023-08-17 - 12:25:44 PM GMT - Time Source: server

 Document emailed to ricardo.castro@lumapr.com for signature


2023-08-17 - 12:25:46 PM GMT

 Email viewed by ricardo.castro@lumapr.com

2023-08-17 - 5:34:03 PM GMT

 Signer ricardo.castro@lumapr.com entered name at signing as Ricardo Castro Gómez

2023-08-17 - 5:35:01 PM GMT

 Document e-signed by Ricardo Castro Gómez (ricardo.castro@lumapr.com)

Signature Date: 2023-08-17 - 5:35:03 PM GMT - Time Source: server

 Agreement completed.

2023-08-17 - 5:35:03 PM GMT