



Document Title:

Guy Grip, C-Coated, 7W, Preformed Loop Dead-End

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Specification

Engineering Type

Material Specification

Document No.:

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Department

Distribution

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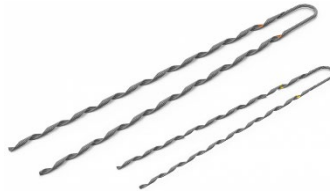
Version	Date	Revision Comments
01	Dec. 15, 2021	PREPA to LUMA format for Items 002-04214 and 002-13736.
02	Nov. 27, 2023	General format modifications. Document changed as shared with Transmission for Item 002-13736.
03	Dec. 06, 2024	General format modifications, TOC update, Section 4 modified, and sections order rearranged.



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Item Version History

Warehouse Catalog #	Asset Suite #	Version	Date
002-04214	55426	7	12/06/2024
002-13736	59008	5	12/06/2024



1. Introduction

This is a general specification that covers the minimum requirements for the guy grip dead-end 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 LUMA's general warehouse (O11) 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 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.

5. Markings

- 5.1. Containers or pallets shall be marked outside with LUMA Energy's purchase order and warehouse catalog 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

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)

Standard package: as per Table 1 or as requested by LUMA Energy.

8. Acceptance Criteria

- 8.1. Test required: certified by external 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. ASTM A153/A153M: Standard specification for zinc coating (hot dip) on iron and steel hardware.
- 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. The guy grip is used for dead-end applications on distribution and transmission systems.
- 9.2. Must be specified as high-strength or extra high-strength grade galvanized steel strand guy wires depending on the strand diameter (see Table 1).
- 9.3. Shall be factory preformed dead-end guy grip twisted loop.
- 9.4. Shall have cross-over marks to indicate starting points.
- 9.5. Must be color coded to assist in the identification of strand size.
- 9.6. Must have different sizes legs to help identifying rods belonging to each leg after application.
- 9.7. Shall be class C-zinc coating as per ANSI/ASTM A-153.
- 9.8. Holding strength and other physical characteristics as per Table 1.

10. Inspection

The acceptance of any equipment/material 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 equipment/materials were found later to be defective.



11. Proposal Information

11.1. Submitted proposals must include:

- a. Technical information, tests, and drawings.
- 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 #	Strand Dia.	Wires per Strand	Grade	Rated Holding Strength	Color Code	Approx. Length	Package	Compatible Supplier & Model
002-04214	55426	3/8" (9.5 mm)	7	High Strength	10,800 lbf (48 kN)	Orange	35" (0.89 m)	50 ea.	Preformed Line Products (GDE-2107)
* 002-13736	59008	1/2" (12.7 mm)	7	Extra High Strength	26,900 lbf (120 kN)	Blue	49" (1.24 m)	20 ea.	Preformed Line Products (BG-2115)

* Item 002-13736 is also used in the 38kV transmission system.

— End of Specification —



Appendix



Appendix 1: Table of Compliance

Line	Description	Pass/Fail (P/F)	Comments
1	Complies with the specification document 4350.126.		
2	Industry Standards: ASTM A153		
3	Tech. info. and drawings provided.		
4	Factory preformed dead-end guy grip twisted loop.		
5	C-Coated Galvanized Steel.		
6	Cross-over marks to indicate starting points.		
7	Color Coded		
8	Different Sizes Legs		
9	7 wires per strand		
10	Strand Diameter	002-04214: 3/8"	
		002-13736: 1/2"	
11	Strength	002-04214: 10,800 lbf (High-Strength)	
		002-13736: 26,900 lbf (Extra High-Strength)	
12	Color Code	002-04214: Orange	
		002-13736: Blue	
13	Length	002-04214: 35"	
		002-13736: 49"	
14	Package 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.












4350.126 Guy Grip (12-6-24)


Final Audit Report

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