



Document Title:
Long Socket Eye for Deadend Clamp

Document Type:
Specification

Engineering Type
Material Specification

Document No.:
4752.310

Department:

Version:
01


Effective Date:
Dec 19, 2024

**Transmission
Engineering**

Shared document with: N/A


Author

Guillermo J. Nieves Díaz
Technical Specialist 1, Transmission Lines Engineering
Design & Standards


Guillermo Nieves (Dec 4, 2024 14:52 AST)

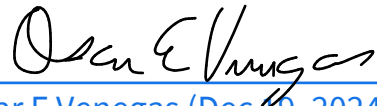
Reviewer 1

Leonardo Montes Sánchez
Engineer 2, Transmission Lines Engineering Design &
Standards


Leonardo Montes Sanchez (Dec 5, 2024 16:45 AST)

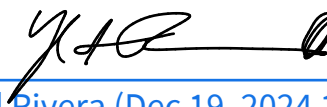
Reviewer 2

Oscar Venegas
Supervisor, Transmission Lines Engineering Design &
Standards


Oscar E Venegas (Dec 19, 2024 13:31 AST)

Approver

Yamil I. Rivera Hernández
Section Manager, Transmission Lines Engineering
Design


Yamil Rivera (Dec 19, 2024 13:36 AST)

Management Approval (If apply)

Approver

N/A
N/A

Signature and Date

Related/Referenced Documents

Version	Date	Revision
00	Feb 24, 2023	First Issue
01	Dec 19, 2024	Changed cover page and document to new format. Modified sections 4 and 7. Included a table of compliance. Equal or approved to changed to Compatible with and information was added.

1. General

1.1. Overview

- 1.1.1. This is a general specification that covers the minimum requirements for a Long Socket Eye for Deadend Clamp be used in the transmission system in Puerto Rico.
- 1.1.2. Further information will be provided by LUMA Energy at the time of order placement and will provide information on site conditions, quantity, and other requirements.
- 1.1.3. This document includes the general electrical and mechanical characteristics of the material.

2. Specific Name

- 2.1. Long Socket Eye for Deadend Clamp

3. Basic Use

- 3.1. To be used as the hardware fitting connection for the deadend clamp with no fitting at warehouse.

4. Specific Requirements

- 4.1. Samples shall be furnished to LUMA.
- 4.2. LUMA requires One (1) unit properly labeled for testing and analysis.
- 4.3. Descriptive and technical literature shall be supplied to LUMA.

5. Acceptance Criteria

- 5.1. Latest applicable codes, standards, and other regulations: ANSI/ASTM.
- 5.2. Test required: certified by external laboratories

6. Description

- 6.1. Long Socket Eye used as the fitting connection for the deadend clamp with no fitting at warehouse, to be installed with the transmission line suspension insulators.
- 6.2. Used with Quadrant Strain Clamp Aluminum Clamp by Hubbell Power System Cat No. SD130N (Warehouse Code: 002-84302).
- 6.3. Socket Eye shall be for use with class 52-3 and 52-5 insulator as per ANSI C-29.2-71.
- 6.4. Socket Eye shall be made with an ultimate strength of 35,000 lbf minimum.
- 6.5. Body shall be galvanized ductile iron.
- 6.6. Cotter Pin-stainless steel.
- 6.7. Shall be hot dip galvanized in accordance with ANSI/ASTM A153.
- 6.8. Metric conversion as per latest ASTM.

7. Marking and Packaging

- 7.1. Containers/pallets or package shall be marked outside with LUMA'S purchase order number and code number.
- 7.2. Vendor shall prepare material and equipment for shipment in such manner as to facilitate handling and protection for damage.
- 7.3. All material should 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.
- 7.4. Pallet quantity: 576

8. Compatible with

- 8.1. Hubbell catalog No. 936062000
- 8.2. This model is an example 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.

9. Proposal Information

- 9.1. Submitted proposals must include:
 - a. Technical Information
 - b. Table of Compliance completed by the bidder with reference

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

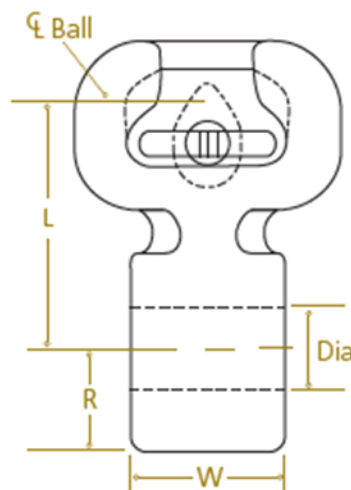
11. Drawings

Table 1: Measurements

W	R	L Min.	Dia
1 1/4"	1"	3"	1 1/16"

Warehouse ID	002-44017
--------------	-----------

— End of Specification —

Appendix

Appendix 1. Table of Compliance

Line	Criteria	Description	Pass/Fail (P / F)	Comments
1	Specification	The Proponent complies with the corresponding specification document (4752.310)09		
2	Industry Standards	The Proponent complies with the industry standards established in the specification document (ANSI, ASTM)		
3	Material	Long Socket Eye for Deadend Clamp		
4	Dimensions	Complies with Table 1		
5	Requirements	<ul style="list-style-type: none"> • Samples shall be furnished to LUMA. • Descriptive and technical literature shall be supplied to LUMA. • Required to be certified by external laboratories. • Socket Eye shall be for use with class 52-3 and 52-5 insulator as per ANSI C-29.2-71. • Socket Eye shall be made with an ultimate strength of 35,000 lbf minimum. • Body shall be galvanized ductile iron. • Cotter Pin-stainless steel. • Shall be hot dip galvanized in accordance with ANSI/ASTM A153. 		












4752.310 Long Socket Eye for Deadend Clamp

Final Audit Report

2024-12-19

Created:	2024-12-04
By:	Guillermo Nieves (guillermoj.nievesdia@lumapr.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAAn-Z8uCUmOzENKmb5fVL9GLZ1CeMAIQY2

"4752.310 Long Socket Eye for Deadend Clamp" History

-  Document created by Guillermo Nieves (guillermoj.nievesdia@lumapr.com)
2024-12-04 - 6:50:56 PM GMT
-  Document e-signed by Guillermo Nieves (guillermoj.nievesdia@lumapr.com)
Signature Date: 2024-12-04 - 6:52:13 PM GMT - Time Source: server
-  Document emailed to Leonardo Montes Sanchez (leonardo.montessanch@lumapr.com) for signature
2024-12-04 - 6:52:15 PM GMT
-  Document e-signed by Leonardo Montes Sanchez (leonardo.montessanch@lumapr.com)
Signature Date: 2024-12-05 - 8:45:50 PM GMT - Time Source: server
-  Document emailed to Oscar Venegas (oscar.venegas@lumapr.com) for signature
2024-12-05 - 8:45:51 PM GMT
-  Signer Oscar Venegas (oscar.venegas@lumapr.com) entered name at signing as Oscar E Venegas
2024-12-19 - 5:31:27 PM GMT
-  Document e-signed by Oscar E Venegas (oscar.venegas@lumapr.com)
Signature Date: 2024-12-19 - 5:31:29 PM GMT - Time Source: server- Signature captured from device with phone number XXXXXXX2079
-  Document emailed to Yamil Rivera (yamil.rivera@lumapr.com) for signature
2024-12-19 - 5:31:30 PM GMT
-  Email viewed by Yamil Rivera (yamil.rivera@lumapr.com)
2024-12-19 - 5:35:56 PM GMT
-  Document e-signed by Yamil Rivera (yamil.rivera@lumapr.com)
Signature Date: 2024-12-19 - 5:36:44 PM GMT - Time Source: server
-  Agreement completed.
2024-12-19 - 5:36:44 PM GMT