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Cable Support Brackets (Termination Support)

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Related/Referenced Documents

N/A

Version History

Version	Date	Revision Comments
1	Dec. 13, 2022	PREPA to LUMA Format
2	Mar. 15, 2023	Cover Page and Table of Compliance (TOC) added.
3	Jul. 12, 2024	Format corrections, Section 4 modified, and sections order rearranged.
4	Jul. 17, 2024	Engineers license number was added



Item Version History

Warehouse Catalog #	Asset Suite #	Version	Date
038-82668	82668	3	7/17/2024
038-77377	77377	4	7/17/2024
038-77378	77378	4	7/17/2024



1. Introduction

This is a general specification that covers the minimum requirements for cable support brackets (termination support) to be used in the distribution 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. If required by LUMA, final drawings 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 shall be marked outside with LUMA Energy's purchase order and item number.
- 5.2. 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: One (1) bracket with parts and hardware per box 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. ASTM A480/A480M: Specification for general requirements for flat-rolled stainless and heat-resisting steel plate, sheet, and strip.
 - b. ASTM A240/A240M: Standard specification for chromium, chromium-nickel, and chromium-manganese-nickel stainless steel plate, sheet, and strip for pressure vessels and for general applications.
 - c. ASTM A276/A276M: Standard specification for stainless steel bars and shapes.
 - d. ASTM A380/A380M: Standard practice for cleaning, descaling, and passivation of stainless-steel parts, equipment, and systems.
 - e. NCTR-99-065: Salt fog and tensile strength test report.
- 8.4. If any other standard 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. Stainless Steel cable support brackets are used on termination and other applications where cable mounts are needed.
- 9.2. Must include the stainless-steel mounting bracket, the rubber pad, and hardware.
- 9.3. Depending on cable size and brand, brackets can be single or double clamp. See Table 1 for more information.
- 9.4. For bracket size range see 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.
- 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 Range (15KV TRXLPE)	Conductor Range (Overall Dia.)	Compatible Manufacturer	Manufacturer Catalog #
038-82668	82668	#2 - 1/0 AWG	0.80" - 1.25" (20-32 mm)	Raychem	BRKT-1-SS single clamp
				Thomas & Betts Elastimold	JB-1 B1 single clamp
038-77377	77377	2/0 - 4/0 AWG	1.10" - 1.70" (27.9-43.2 mm)	Raychem	BRKT-2-SS single clamp
				3M	MBS-4 double clamp
				Thomas & Betts Elastimold	JB-2 B2 single clamp
038-77378	77378	500 - 750 MCM	1.45" - 1.95" (36.8-49.5 mm)	Raychem	BRKT-3-SS double clamp
				3M	MBS-5 double clamp
				Thomas & Betts Elastimold	JB-3 B3 double clamp

— End of Specification —



Appendix

Appendix 1: Table of Compliance

Line	Description	Pass/Fail (P / F)	Comments
1	The Proponent complies with the corresponding specification document (4350.136).		
2	The Proponent complies with the industry standards established in the specification document (ANSI/IEEE).		
3	Tech. info., tests & drawings provided.		
4	Type: Cable Support Brackets		
5	Material: Stainless-Steel		
6	For use with tape shield or JCN, XLPE insulation, 15 kV copper cables and terminations.		
7	<ul style="list-style-type: none"> • Stainless-Steel Bracket (single or double depending on cable gauge) included. • Rubber pad included. • Stainless-Steel Hardware included. 		
8	Cable Size Range as per Table 1.		

NOTE: This table is only a check list for reference. The compliance shall be with the complete document. Marking a PASS in the table won't be accepted as a compliance without the technical information required to certify it.












4350.136 Cable Support Brackets (July 2024)

Final Audit Report

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