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ACSR Cable Trimmer and Accessories

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Equipment Specification
Document No.: 4350.311
Originating Department: Distribution Engineering



ACSR Cable Trimmer and Accessories

1. Introduction

This is a general specification that covers the minimum requirements for the ACSR cable trimmer and accessories 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 material.

2. Special Requirements

Samples shall be furnished as requested by LUMA Energy. Vendors that have supplied this material to PREPA / LUMA on previous orders will not have to furnish samples at bid opening. The 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. Quantity/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. Evidence of PREPA's and/or LUMA Energy's approval of the equipment or 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. Suggested Model

- 5.1. RIDGID, see Table 1 for specific model.



Equipment Specification

Document No.: 4350.311

Originating Department: Distribution Engineering

ACSR Cable Trimmer and Accessories

6. Packaging

All material and equipment 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. Standard package: One (1) 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.

9. Description

9.1. Cable trimmer and accessories used for removing the aluminum strands off an ACSR conductor.

9.2. Cable Trimmer Kit

- a. The kit shall include a bushing holder, the cable cutter, and a carrying case.
- b. The cable cutter shall have an opening in which the cable is set to be trimmed. At the bottom of the opening, it shall be furnished with a cutter wheel capable of cutting through the ACSR aluminum strands (refer to Section 9.3. for further detail on the cutter wheel). At the top of the opening, the cutter shall be furnished with multiple rollers to facilitate the operation of circulating the cutter around the cable. At the bottom end of the cable cutter, the equipment shall have a knob assembly that pushes the cutter wheel during the trimming operation. The cable cutter shall accept ACSR conductor sizes from 1/0 AWG (6/1) to 556.5 MCM (24/7).
- c. The bushing holder shall be used for handling the ACSR cable during the trimming process. The holder shall be hinged at one side and have a locking mechanism at the other (using a wing nut or similar). The opening created shall be capable of holding a variety of bushings corresponding to the cable to be cut (refer to Section 9.4. for further details on the bushings). The holder shall be furnished with a steel bar that helps the user to handle the cable while trimming.



Equipment Specification

Document No.: 4350.311

Originating Department: Distribution Engineering

ACSR Cable Trimmer and Accessories

- d. The kit shall be provided with a hard carrying case that accommodates the cable cutter, the bushing holders, and up to 12 bushings.

9.3. Cutter Wheel

- a. Shall be able to cut through ACSR aluminum strands.
- b. Shall have a hole in the center of the wheel through which a screw is inserted when install on the cutter. Shall be able to be removed from the cable cutter without the need of special tools.
- c. Shall be spare part compatible with RIDGID 87 cable trimmer.

9.4. Cable Trimmer Bushings

- a. Shall be a two-part steel bushing to cover the cable during the trimming process.
- b. The bushing external diameter shall be sized appropriately to fit inside the RIDGID 87 bushing holder.
- c. The internal diameter of the bushing shall be sized appropriately to accommodate the cable to be trimmed. Refer to Table 1 for specific model number based on the cable size.

- 9.5. All parts described in this specification shall be compatible with RIDGID 87 Cable Trimmer to ensure compatibility in future acquisition events.

9.6. Table 1: Warehouse Information and Suggested Model

Warehouse Number	Asset Suite	Type	Suggested Model
Cable Trimmer Kit			
072-84623	84623	Bushing holder, cable cutter, and carrying case	RIDGID 87, catalog no. 54135
Cutter Wheel			
072-84615	84615	Cutter wheel, spare part for cable trimmer.	RIDGID E-4695, catalog no. 54270
Cable Trimmer Bushings			
072-84620	84620	Bushing for 1/0 AWG (6/1)	RIDGID E-5900, catalog no. 54975
072-84616	84616	Bushing for 3/0 AWG (6/1)	RIDGID E-5762, catalog no. 54445
072-84617	84617	Bushing for 266.8 MCM (26/7)	RIDGID E-5766, catalog no. 54465
072-84618	84618	Bushing for 336.4 MCM (26/7)	RIDGID E-5769, catalog no. 54480
072-84619	84619	Bushing for 556.5 MCM (24/7)	RIDGID E-5780, catalog no. 54535



Equipment Specification

Document No.: 4350.311

Originating Department: Distribution Engineering

ACSR Cable Trimmer and Accessories

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)

— End of Specification —



Equipment Specification

Document No.: 4350.311

Originating Department: Distribution Engineering

ACSR Cable Trimmer and Accessories

Appendix



Equipment Specification
Document No.: 4350.311
Originating Department: Distribution Engineering

ACSR Cable Trimmer and Accessories

Appendix 1: Table of Compliance for Cable Trimmer Kit

Line	Criteria	Description	Pass/Fail (P/F)
1	Specification	The Proponent complies with the corresponding specification document.	
2	Industry Standards	The Proponent complies with the industry standards established in the specification document. (ANSI, ASTM)	
3	Cable Cutter	Furnished with removable cutter wheel	
		Furnished with rollers at top of opening	
		Knob assembly	
		Accept ACSR 1/0 AWG to 556.5 MCM	
4	Bushing Holder	Locking mechanism at one side	
		Capable of holding bushings of various sizes.	
		Furnished with a steel bar for handling.	
5	Carrying case	Hard carrying case that accommodates the cable cutter, the bushing holders, and up to 12 bushings.	

Appendix 2: Table of Compliance for Cutter Wheel

Line	Criteria	Description	Pass/Fail (P/F)
1	Specification	The Proponent complies with the corresponding specification document.	
2	Industry Standards	The Proponent complies with the industry standards established in the specification document. (ANSI, ASTM)	
3	Operation	Shall be able to cut through ACSR aluminum strands	
4	Construction	Build with a hole in the center for mounting. Removable.	
5	Compatibility	Spare part for RIDGID 87 cable trimmer	



Equipment Specification
Document No.: 4350.311
Originating Department: Distribution Engineering

ACSR Cable Trimmer and Accessories

Appendix 3: Table of Compliance for Cable Trimmer Bushings

Line	Criteria	Description	Pass/Fail (P/F)
1	Specification	The Proponent complies with the corresponding specification document.	
2	Industry Standards	The Proponent complies with the industry standards established in the specification document. (ANSI, ASTM)	
3	Construction	Two-part steel bushing	
		External diameter shall fit inside RIDGID 87 bushing holder	
		Internal diameter shall accommodate corresponding cable size.	











4350.311 ACSR Cable Trimmer and Accessories (04-10-2023)

Final Audit Report

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