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Rope Polypropylene Twisted

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Version History

Date	Revision Comments
August. 16, 2022	Initial Release. Converted from PREPA to LUMA format
August 18, 2023	Format modification and add warehouse catalog # 072-02211

Items	Warehouse Catalog #	Version	Date
1	072-02211	2	8/18/2023
2	072-02229	4	8/18/2023
3	072-02237	5	8/18/2023
4	072-02245	5	8/18/2023



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1. Introduction

This is a general specification that covers the minimum requirements for rope polypropylene twisted 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 mechanical characteristics of the material.

2. Special Requirements

Samples shall be furnished as requested by LUMA Energy. Vendors that have supplied this 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 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 vendor if requested by LUMA Energy.

4. Markings

- 4.1. Containers shall be marked outside with LUMA Energy's purchase order, item number, name and size, net and gross weight, manufacturer's name, and lot number.
- 4.2. Packaging labels and tags shall be waterproof.

5. Compatible with

- 5.1. Sunshine Cordage

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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)

Shall be furnished in plastic or wooden reels containing of rope individually packaged.

8. Acceptance Criteria

8.1. Test required: certified by external qualified laboratories.

a. Latest applicable codes, standards, and other regulations: ASTM.

9. Description

9.1. Polypropylene twisted rope.

9.2. Shall be abrasion resistant with excellent dielectric properties and low elasticity.

9.3. Shall retain good flexibility at low temperatures.

9.4. Shall be made from 100 % monofilament fibers.

9.5. One black strand and two greens strands.

9.6. Characteristics:

Item Description	Warehouse Catalog	Asset Suite	Tensile Strength Minimum	Working load Minimum	Furnished in plastic or wooden reels
Rope 3/8" dia.	072-02211	56134	2,700 lbs.	270 lbs.	1,000 ft
Rope 1/2" dia.	072-02229	56135	3,780 lbs.	420 lbs.	1,000 ft
Rope 5/8" dia.	072-02237	56556	5,600 lbs.	700 lbs.	1,000 ft
Rope 7/8" dia.	072-02245	56557	10,400 lbs.	1,490 lbs.	600 ft

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10. Inspection

The acceptance of any material or 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)

— End of Specification —

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Originating Department: Distribution Engineering

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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 4350.257.		
2	Industry Standards	The Proponent complies with the industry standards established in the specification document. (ASTM)		
3	Characteristics	<ul style="list-style-type: none"> • Polypropylene twisted rope • Abrasion resistant with excellent dielectric properties and low elasticity. • Retain good flexibility at low temperatures • 100 % monofilament fibers 		
4	Tensile Strength	<ul style="list-style-type: none"> • Rope 3/8": 2,700 lbs. • Rope 1/2": 3,780 lbs. • Rope 5/8": 5,600 lbs. • Rope 7/8": 10,400 lbs. 		
5	Working Load Minimum	<ul style="list-style-type: none"> • Rope 3/8": 270 lbs. • Rope 1/2": 420 lbs. • Rope 5/8": 700 lbs. • Rope 7/8": 1,490 lbs. 		
6	Shall be furnished in plastic or wooden reels	<ul style="list-style-type: none"> • Rope 3/8": 1,000 lbs. • Rope 1/2": 1,000 ft. • Rope 5/8": 1,000 ft. • Rope 7/8": 600 ft. 		
7	Strand	One black strand and two greens strands.		











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Final Audit Report

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