



**Equipment Specification**

Document No.: 4350.211

Item No.: 038-83155

Asset Suite: 83155

Originating Department: Distribution Engineering



## **24 IN Standard Nylon Cable Tie**

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### **1. Introduction**

This is a general specification that covers the minimum requirements for the 24 inches standard nylon cable tie 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 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 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 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. Equal or Approved Equal to**

3M, catalog number CT24BK175-L



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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)**

Fifty (50) per bag 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: UL Standards (62275 Type 21)

### **9. Description**

- 9.1. Standard cable ties to be used to sure wire bundles and other components.
- 9.2. Must be furnished with a self-locking head.
- 9.3. Material must be UV weather-resistant high-quality nylon 6/6.
- 9.4. The tip of the tie must be curved for facilitating installation.
- 9.5. Must be able to withstand a minimum tensile strength of 175 lb. (778.4 N).
- 9.6. Dimensions:
  - a. Length: 24 inches (61 cm)
  - b. Width: 0.34 inches (0.86 cm)
  - c. Thickness: 0.09 inches (0.23 cm)
- 9.7. Must be able to withstand an operating temperature of 0 – 85°C (32 – 185°F).



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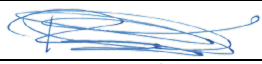

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### 10. Inspection

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.

— End of Specification —

#### Document History

<b>Version</b>	1	
<b>Date</b>	2/11/2022	
<b>Author</b>	Rodolfo Flores	_____
<b>Reviewer</b>	Rafael Torres	 _____
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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 (4350.211).		
2	Industry Standards	The Proponent complies with the industry standards established in the specification document. UL Standards (62275 Type 21)		
3	Test required	Certified by External Laboratories.		
4	Material	UV weather-resistant high-quality nylon 6/6.		
5	Minimum Tensile Strength	175 lb. (778.4 N)		
6	Dimensions	<ul style="list-style-type: none"><li>• Length: 24 inches (61 cm)</li><li>• Width: 0.34 inches (0.86 cm)</li><li>• Thickness: 0.09 inches (0.23 cm)</li></ul>		
7	Operating Temperature	0 – 85°C (32 – 185°F)		