



Wildlife Protection – Small Bird Diverter

1. Introduction

This is a general specification that covers the minimum requirement for the wildlife protection for small bird diverters to be used in the distribution system in Puerto Rico. Further information will be provided by LUMA Energy at the time of order placement 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. Labels and tags shall be waterproof.

5. Equal or Approved Equal to

PLP Preformed Line Products, model Bird-Flight Diverter. See Table 1.



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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)

See Table 1 for standard package or as required by LUMA Energy.

8. Acceptance Criteria

- 8.1. Test required: certified by external laboratories.
- 8.2. Latest applicable codes, standards, and other regulations: ASTM-ANSI-IEEE-UL

9. Description

The wildlife protection system for small bird diverters shall be used for the protection of aerial conductors, specifically to prevent any disturbances created by small birds and other animals.

- 9.1. Material shall be outdoor grade polyvinyl chloride (PVC) or equivalent.
- 9.2. Dimensions. See Figure 1 for reference.

Table 1: Dimensions per model.

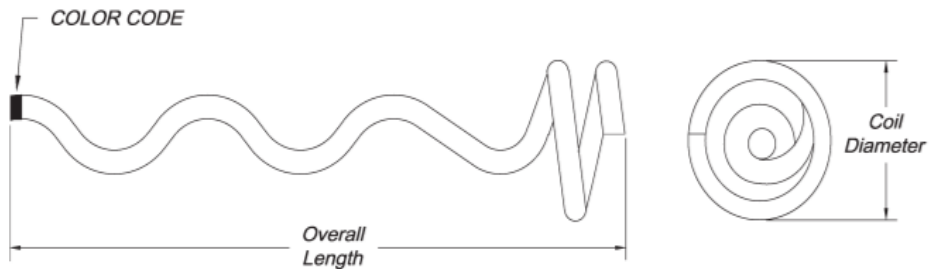


Figure 1: Dimension Schematic



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Item	Conductor	Suggested Model Number	Conductor Range inches (cm)		Overall Length inches (cm)	Diameter of Diverter coil inches (cm)	Quantity per package
			Min	Max			
1	1/0 AWG	BFD-MS-11135	0.350 (0.889)	0.449 (1.140)	12.375 (31.433)	4.25 (10.795)	75
2	3/0 AWG	BFD-MS-3341	0.450 (1.143)	0.599 (1.521)	14.625 (37.148)	4.25 (10.795)	75
3	266.8 MCM	BFD-MS-3344	0.600 (1.524)	0.770 (1.956)	17.00 (43.180)	4.25 (10.795)	50
4	556.5 and 652.4 MCM	BFD-MS-3405	0.859 (2.182)	0.970 (2.464)	16.50 (41.910)	4.50 (11.430)	30

- 9.3. Equipment color shall be yellow, unless specified otherwise.
- 9.4. Equipment must be easy to install by hand or a standard hot stick tool.
- 9.5. Metric conversions as per ASTM E380.

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.

Table 2: Warehouse and Asset Suite Number Information

Item (See Table 1)	Warehouse Number	Asset Suite Number
1	072-82417	82417
2	072-82418	82418
3	072-82419	82419
4	072-82420	82420

— End of Specification —



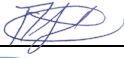

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Document History

Version	2	
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