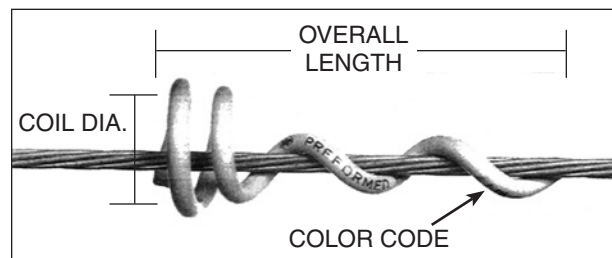


# BIRD-FLIGHT™ Diverters

## NOMENCLATURE

### PLASTIC BIRD-FLIGHT DIVERTER



**Length:** Distance product covers the conductor.

**Color Code:** Identifies conductor range, corresponding to tabular information on the following page.

**Color:** Yellow, Gray or Black

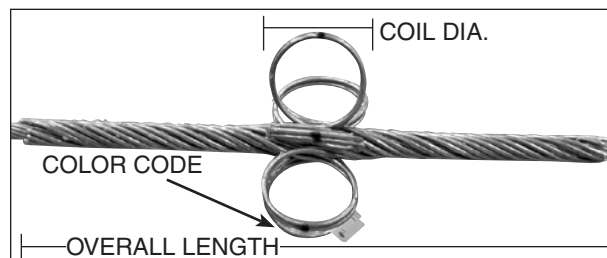
**Material:** Outdoor grade PVC

**Coil Diameter:** Internal diameter of diverter coil

**Thermal Rating:** 125°C Continuous

**Application Voltage:** Gray and Yellow – 230kV and below  
Semi-Conductive Black – 345kV

### ALUMINUM BIRD-FLIGHT DIVERTER



**Length:** Distance product covers the conductor.

**Color Code:** Identifies conductor range, corresponding to tabular information on the following page.

**Color:** Silver

**Material:** Aluminum Alloy

**Coil Diameter:** Approximately 4"

**Thermal Rating:** 250°C Continuous

**Application Voltage:** 230kV and below

## GENERAL RECOMMENDATIONS

The BIRD-FLIGHT Diverter is designed to make overhead lines and guyed structures visible to birds and provides an economical means of reducing the hazard to both lines and birds. For low and medium voltage construction, the BIRD-FLIGHT Diverter is applied to the phase conductors (bare or jacketed). For high voltages, it is used on the shield wire.

The BIRD-FLIGHT Diverter is lightweight, offers little wind resistance and is easily and quickly applied by hand or by hot stick. The positive grip on the conductor ensures that the BIRD-FLIGHT Diverter remains in the applied position and cannot move along the span under aeolian vibration or other conditions.

**Visibility:** The diverter section increases the visible profile of the cable or conductor to a degree necessary to ensure safety, but avoids an undesirably bulky outline.

**Materials:** The plastic BFD is manufactured from rigid .375" and .500" high impact polyvinyl chloride (PVC) possessing excellent chemical resistance and tensile strength properties. The BIRD-FLIGHT Diverter will retain good physical characteristics within a range of extreme temperatures. Aging tests confirm the material does not deteriorate in function or appearance from the effects of severe weather conditions. Industrial fumes and salt water cannot seriously degrade the properties of rigid PVC.

The Aluminum BFD is manufactured from a high strength, corrosive resistant aluminum alloy material. It is ideal for use on conductors operated at elevated temperatures.

## APPLICATIONS

**Ensure the correct size BIRD-FLIGHT Diverter is used.** For a detailed installation description, refer to the application instructions. Hot stick application is fast and simple with standard equipment.

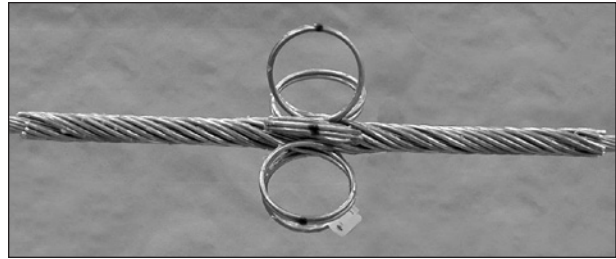
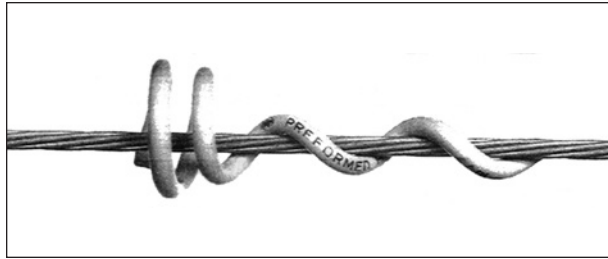
**Spacing:** For optimum results, spacing distances are generally recommended at 15' intervals depending upon local conditions. Since wind resistance is very limited, sufficient BIRD-FLIGHT Diverters can be used to ensure adequate visibility without creating stresses on the line. When marking adjacent spans, overall visibility is improved by staggering the application.

**Voltage:** For applications on the phase conductors, any of the BIRD-FLIGHT Diverters (BFD) can be used at 3 phase voltages of 230kV and below. For applications of the BFD at 345kV, the black BFD which utilizes a semi-conductive polymer layer, can be used. The aluminum BFD should not be used above 230 kV due to the issues of RIV.

**Temperature:** The Plastic BIRD-FLIGHT Diverter can be used on conductors operating at 125°C or below. For operational temperatures above 125°C, the Aluminum BIRD-FLIGHT Diverter should be used if the voltage level is appropriate.



# BIRD-FLIGHT™ Diverters



**For use on:  
Bare and Jacketed Conductors & Strand**

Catalog Number	Material Color	Conductor Range (Inches)		Overall Length (Inches)	Diameter of Diverter Coil (Inches)	Color Code
		Min	Max			
BFD-MS-3331	Yellow	0.175	0.249	7.00	2.25	Black
BFD-MS-3346	Gray					
BFD-MS-3155	Yellow	0.250	0.349	8.50	2.50	Blue
BFD-MS-2921	Gray					
BFD-MS-3164	Yellow	0.350	0.449	9.50	2.75	Brown
BFD-MS-3355	Gray					
BFD-MS-10022	Black					
BFD-MS-11135	Yellow					
BFD-MS-11060	Gray					
BFD-MS-11134	Black					
BFD-MS-11060	Gray	0.450	0.599	14.625	4.25	Green
BFD-MS-3341	Yellow					
BFD-MS-3366	Gray					
BFD-MS-10023	Black	0.600	0.770	17.00	4.25	Purple
BFD-MS-3344	Yellow					
BFD-MS-3371	Gray					
BFD-MS-3345	Yellow					
BFD-MS-3376	Gray	0.771	0.858	15.00	4.25	Red
BFD-MS-3405	Yellow					
BFD-MS-11699	Gray	0.859	0.970	16.50	4.50	Orange
BFD-MS-11111	Yellow					
BFD-MS-12290	Gray	0.971	1.121	15.50	4.25	Pink
BFD-MS-10277SC	Black					
BFD-MS-11430	Yellow	1.122	1.306	16.25	4.38	Gray
BFD-MS-11110	Yellow	1.307	1.530	17.00	4.70	Black
BFD-MS-12351	Yellow	1.531	1.786	20.00	4.88	White
BFD-MS-11566	Yellow	1.787	2.100	23.00	5.25	Purple
BFD-MS-12603	Yellow	2.101	2.500	26.00	5.25	Orange
BFD-MS-11543	Aluminum	0.800	0.850	26.00	4.00	Pink
BFD-MS-12679	Aluminum	1.100	1.150	37.00	4.00	Purple
BFD-MS-12645	Aluminum	1.300	1.350	43.00	4.00	Red
BFD-MS-12687	Aluminum	1.565	1.635	54.00	4.00	Black

*Explanatory Notes:*

For field study results, consult Preformed Line Products®.