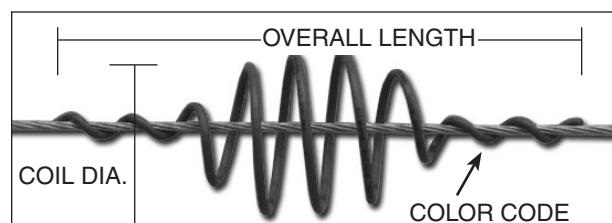


SWAN-FLIGHT™ Diverters

NOMENCLATURE

PLASTIC SWAN-FLIGHT DIVERTER



GENERAL RECOMMENDATIONS

The Preformed Line Products SWAN-FLIGHT Diverter is designed for use on conductor/strand to create greater visibility for avian flight paths on overhead lines and tower down guys. Offering little wind resistance, it reduces hazards to both lines and birds. For construction up to 230kV, the SWAN-FLIGHT Diverter can be applied to phase conductors (bare or jacketed). For EHV voltages, it is typically installed on the shield wire.

The SWAN-FLIGHT Diverter is lightweight, offers little wind resistance and is easily and quickly applied by hand or hot stick. The positive grip on the conductor ensures that the SWAN-FLIGHT Diverter remains in the applied location 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 SWAN-FLIGHT Diverter (SFD) is manufactured from rigid .375" and .500" high impact polyvinyl chloride (PVC) possessing excellent chemical resistance and tensile strength properties. The SFD 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.

Length: Distance product covers the conductor.

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

Color: Yellow, Gray or Black (semi-conductive)

Material: Outdoor grade High Impact PVC

Coil Diameter: Outside diameter of diverter coil

Thermal Rating (Continuous): 125°C

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

For application on phase conductors at 230kV, the SFD utilizes a semi-conductive polymer layer to reduce the possibility of electrical noise, corona and electrical tracking. The SWAN-FLIGHT Diverter should not be applied on phase conductors energized at voltages of 345kV and above.

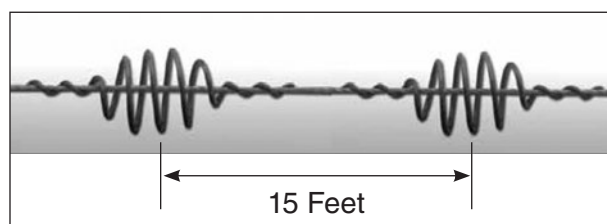
APPLICATIONS

Ensure the correct size SWAN-FLIGHT Diverter is used.

For detailed installation description, refer to the application procedure. Hot stick application is fast and simple with standard equipment.

Spacing:

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



Catalog Number	Conductor Range (Inches)		Overall Length (Inches)	Diameter of Diverter Coil (Inches)	Diameter of PVC Rod (Inches)	Approximate Weight/Unit (Lbs)	Color Code	Units per Carton
	Min	Max						
SFD-0445	0.175	0.249	20	7.0	0.375	0.40	Black	35
SFD-0635	0.250	0.349	23	7.0	0.375	0.46	Blue	35
SFD-0890	0.350	0.449	25	7.5	0.375	0.50	Brown	35
SFD-1140	0.450	0.599	35	8.0	0.375	0.70	Green	15
SFD-1520	0.600	0.770	38	8.0	0.500	1.40	Purple	15
SFD-1960	0.771	0.858	38	8.0	0.500	1.40	Red	15
SFD-2220	0.859	0.970	40	8.0	0.500	1.50	Orange	10
SFD-2460	0.971	1.121	40	8.0	0.500	1.50	Pink	10
SFD-2700	1.122	1.306	40	8.0	0.500	2.00	Gray	10
SFD-3035	1.307	1.530	46	8.0	0.500	2.00	Black	10

NOTE: Add suffix -Y to the catalog number for yellow color (i.e.: SFD-1140-Y).

Add suffix -B to the catalog number for black semi-conductive layer for applications @ 230kV (i.e.: SFD-2460-B).

Explanatory Notes:

For field study results, consult Preformed Line Products.

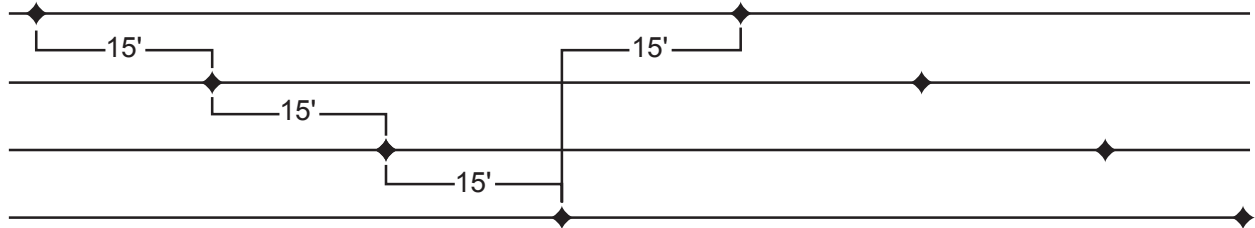
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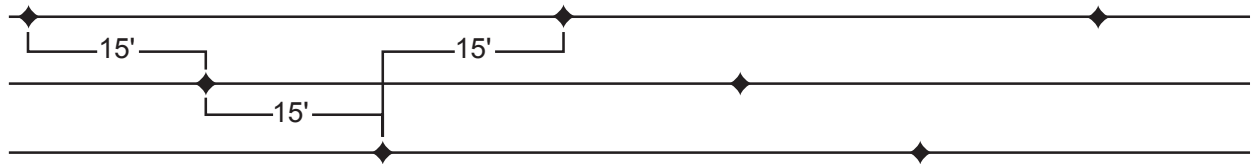
BIRD-FLIGHT™/SWAN FLIGHT™ Diverter Spacing

Horizontal Line Layouts

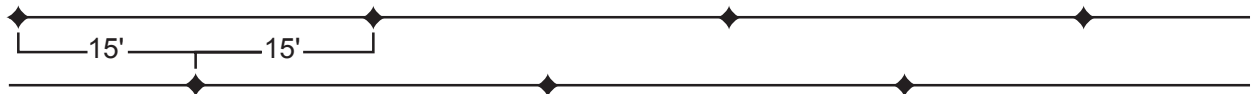
Medium Voltage



Three Phase



One phase



Generally at 15' intervals minimum

◆ BIRD-FLIGHT™/SWAN-FLIGHT™ Diverter position