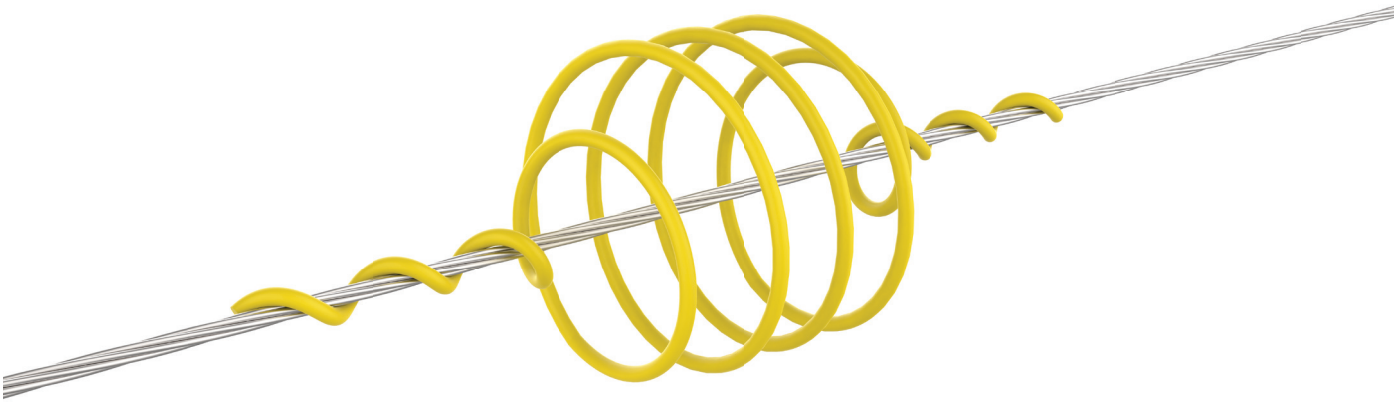


SWAN-FLIGHT™ DIVERTER

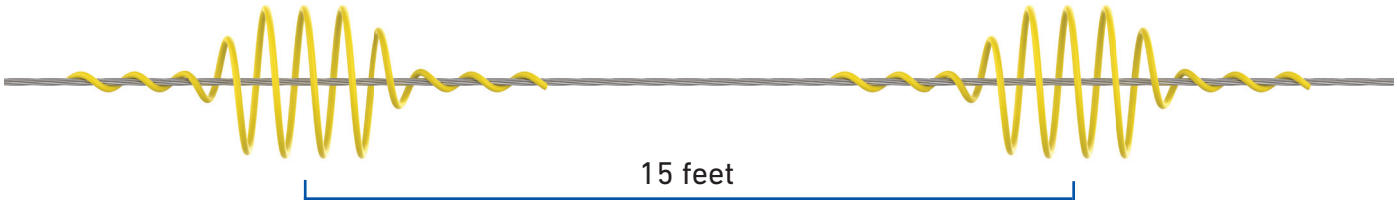
The **SWAN-FLIGHT Diverter (SFD)** is designed for use on conductor/strand to create greater visibility for avian flight paths on overhead lines and tower down guys. For construction up to 230 kV, the SFD can be applied to phase conductors (bare or jacketed). For EHV, it is typically installed on the shield wire. The diverter section increases the visible profile of the cable to a degree necessary to alert wildlife, but avoids an undesirably bulky outline and increased loading on the line.

FEATURES AND BENEFITS

- Increases visibility where large, slow-moving bird flight paths are present
- Lightweight, economical, and easily applied
- Positive grip prevents product from moving along the span
- Long service life without deterioration of material properties
- Minimal wind resistance
- Manufactured from gray or yellow rigid, high-impact PVC with UV protection
- Applicable for voltages below 230 kV
- Semi-conductive version available for 230 kV applications
- Meets **UL 94 V-0** flammability requirements

SPACING

Horizontal Line Layout



For optimal results, spacing distances are generally recommended at 15-foot intervals, depending upon local conditions. Since wind resistance is very limited, sufficient 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 staggering the placement between the spans.

NOTE: See Appendix for additional Horizontal Line Layouts on medium voltage, three phase, and one phase.

ORDERING INFORMATION

- For use on bare and jacketed conductors, strand, and fiber optic cables
- Gray is the standard color. For yellow, add "-Y" after the catalog number. Add suffix "-B" to the catalog number for black semi-conductive layer for applications at 230 kV. **Example:** SFD-2460-B

Catalog Number	Conductor Range		Overall Length	Diverter Coil Diameter	PVC Rod Diameter	Approximate Weight	Color Code
	Minimum	Maximum					
	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	lb	
SFD-0445	0.175 (4.4)	0.249 (6.3)	20 (508)	7.0 (177)	0.375 (9)	0.40	Black
SFD-0635	0.250 (6.3)	0.349 (8.8)	23 (584)	7.0 (177)	0.375 (9)	0.46	Blue
SFD-0890	0.350 (8.9)	0.449 (11.4)	25 (635)	7.5 (190)	0.375 (9)	0.50	Brown
SFD-1140	0.450 (11.4)	0.599 (15.2)	35 (889)	8.0 (203)	0.375 (9)	0.70	Green
SFD-1520	0.600 (15.2)	0.770 (19.5)	38 (1965)	8.0 (203)	0.500 (14)	1.40	Purple
SFD-1960	0.771 (19.5)	0.858 (21.7)	38 (1965)	8.0 (203)	0.500 (14)	1.40	Red
SFD-2220	0.859 (21.8)	0.970 (24.6)	40 (1016)	8.0 (203)	0.500 (14)	1.50	Orange
SFD-2460	0.971 (24.6)	1.121 (28.4)	40 (1016)	8.0 (203)	0.500 (14)	1.50	Pink
SFD-2700	1.122 (28.4)	1.306 (33.1)	40 (1016)	8.0 (203)	0.500 (14)	2.00	Gray
SFD-3035	1.307 (33.2)	1.530 (38.8)	46 (1168)	8.0 (203)	0.500 (14)	2.00	Black

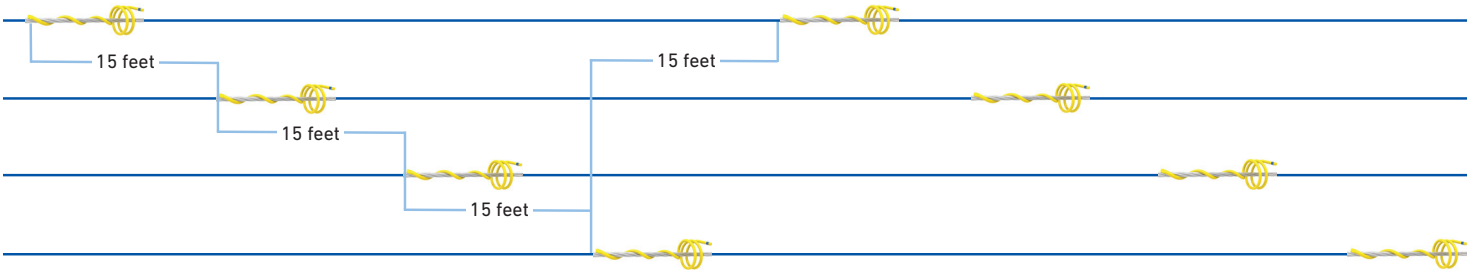
WARNING: The SWAN-FLIGHT Diverter should not be applied on phase conductors energized at voltages of 345 kV and above.

APPENDIX

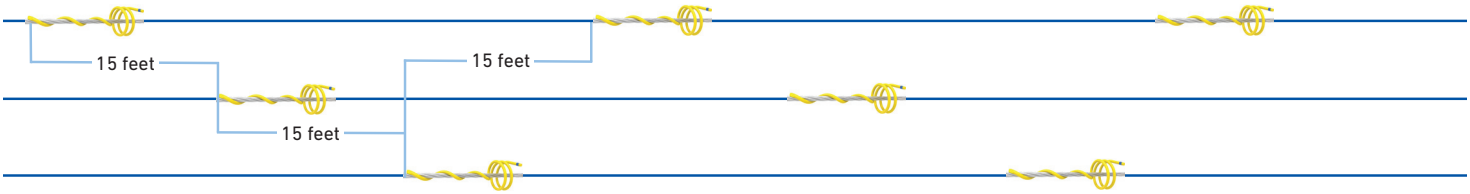
BIRD-FLIGHT™ DIVERTER, SWAN-FLIGHT™ DIVERTER, AND RAPTOR-CLAMP™ DIVERTER SPACING

Horizontal Line Layout

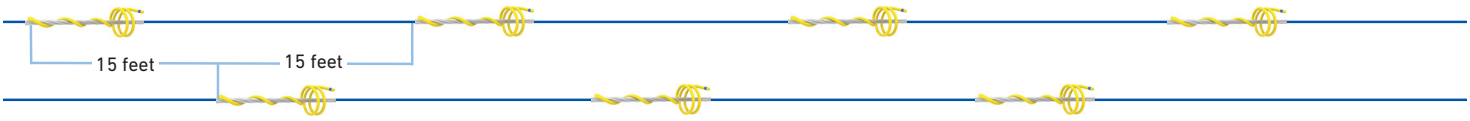
Medium Voltage



Three Phase



One Phase



BIRD-FLIGHT Diverters are shown in the diagram above, SWAN-FLIGHT Diverters and RAPTOR CLAMP™ Diverters are placed in the same positions. For optimal results, spacing distances are generally recommended at 15-foot intervals, depending upon local conditions.