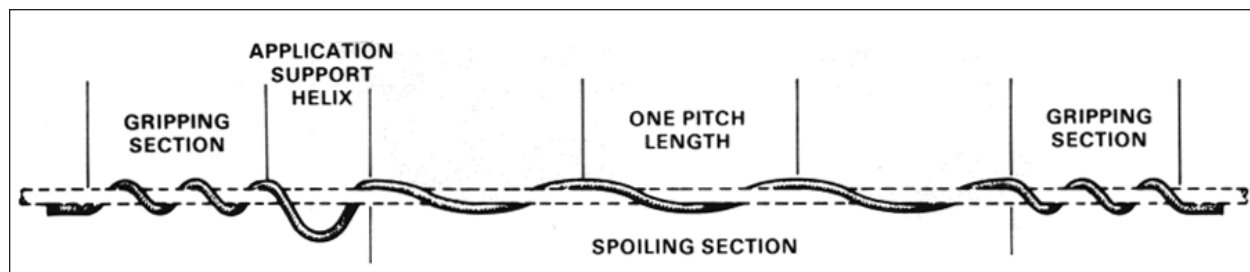


# Air Flow Spoiler



Thermal Rating (Continuous) 125°C

## NOMENCLATURE

**Gripping Section:** Grips cable. Consists of several pitches (360° wraps around the cable) and holds the Air Flow Spoiler firmly in position.

**Spoiling Section:** Disrupts aerodynamic lift. The spoiling section is wrapped around the cable in a manner which presents a constantly changing profile to wind flow and cancels lift forces which cause galloping. The spoiling section is wrapped around the cable either two or three times, depending on cable diameter.

**Application Support Helix:** Supports Spoiler. Air Flow Spoilers range in length from 14 to 16 feet. The Application Support Helix on one end keeps the Air Flow Spoiler from hanging down, while the gripping section on the opposite end is applied.

Air Flow Spoilers for EHV applications have a co-extended semi-conductive outer layer of material which resists the surface effects of high electrical gradients and minimizes the possible generation of radio interference (RI).

## GENERAL RECOMMENDATIONS

Several Air Flow Spoilers are required in each span to offset the aerodynamic lift forces which cause galloping. Each cable, conductor or phase, and neutral need to be treated in each span.

The number and placement of Air Flow Spoilers in each span can be determined by using the General Placement guidelines that follow or by submitting the Air Flow Spoiler Placement Request form. The information submitted on this form is input into a computer program for the determination of the exact placement of the Air Flow Spoilers in each span. The program also supplies the increased wind loading on each span as a percentage increase.

When using the Air Flow Spoiler Placement Request form, the information should be completed and returned to PLP® prior to installation of Air Flow Spoilers. The placement scheme will be returned giving the placement of Air Flow Spoilers in each span.

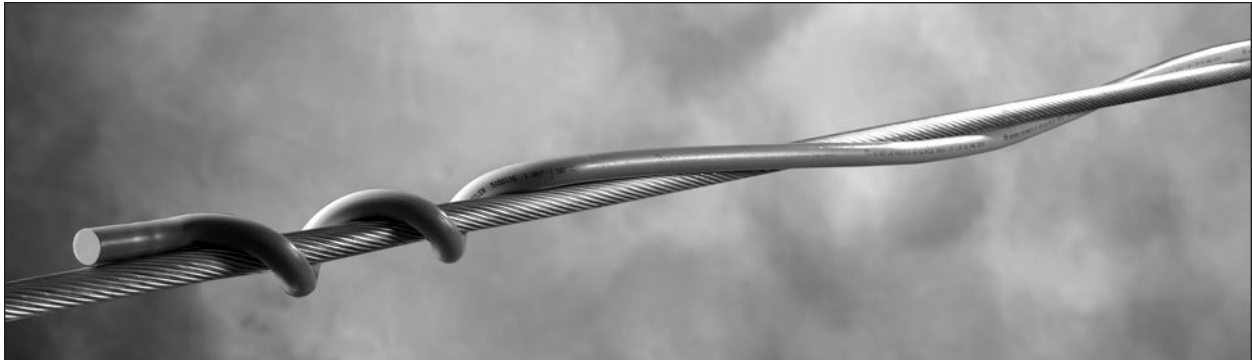
Please advise whether the cables contain optical fibers or if the Air Flow Spoilers are to be installed on Figure 8/Lashed Messenger cables. This may influence the Air Flow Spoiler selection and/or quantity.

## GENERAL PLACEMENT GUIDELINES

Extensive laboratory and field research has shown that Air Flow Spoilers are most effective when they are placed on 25% of the span length (based on the 12' spoiling section). For example, a 600' span would require 13 Air Flow Spoilers  $((.25 \times 600) / 12)$ . The Air Flow Spoilers are grouped in the middle 50% of the span by leaving a blank space equal to an Air Flow Spoiler length between adjacent units.



# Air Flow Spoiler



**For use on all standard conductors.**

Catalog Number	Diameter Range (Inches)		Length (Feet)	Wt./Unit Lbs.	Color Code
	Min.	Max.			
5058100	0.250	0.326	13-1/2	1.00	Red
5058101	0.327	0.461	13-1/2	1.00	White
5058102	0.462	0.563	14	2.25	Orange
5058103	0.564	0.76	14-1/2	2.40	Yellow
5058104	0.761	0.926	15	4.25	Blue
5058105	0.927	1.019	15-1/4	4.50	Black
5058106	1.020	1.165	15-3/4	5.50	Purple
5058107	1.166	1.469	16	5.75	Brown
5058108	1.470	1.602	17	9.50	Green
5058109	1.603	1.762	17-1/2	9.75	Pink

**EXPLANATORY NOTES:**

- (1) For installation on Figure 8 and Lashed Messenger cables, consult PLP.
- (2) Obtain the Air Flow Spoiler Placement Request form from your local PLP representative or directly from PLP.