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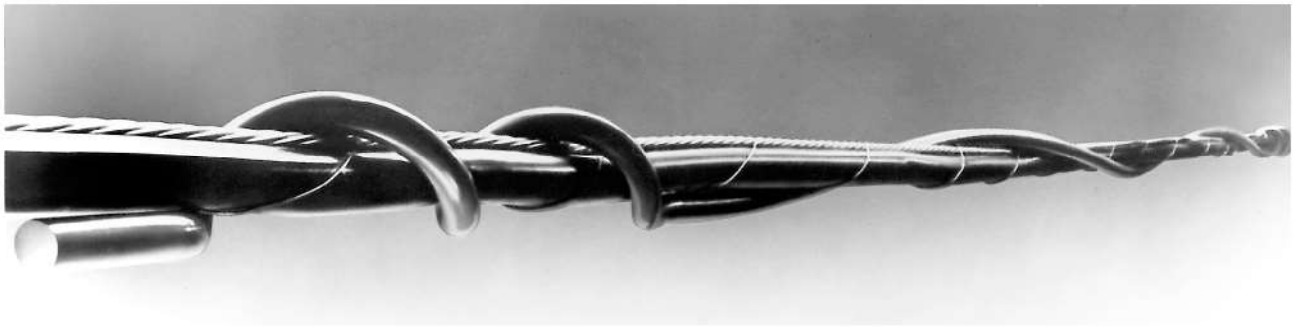
Air Flow Spoiler



Nomeclature

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

Spoiling Section: Disturbs 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 4 to 5 metres. 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.

Catalogue No.: AFS

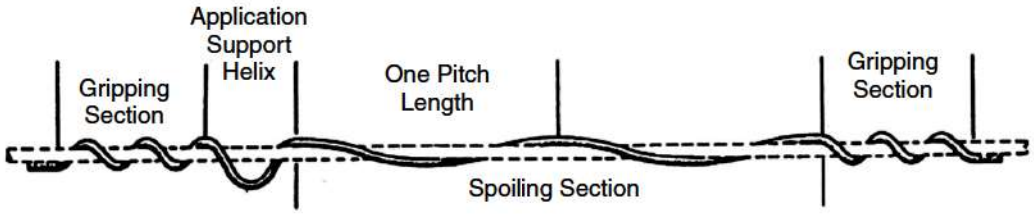


Figure 1

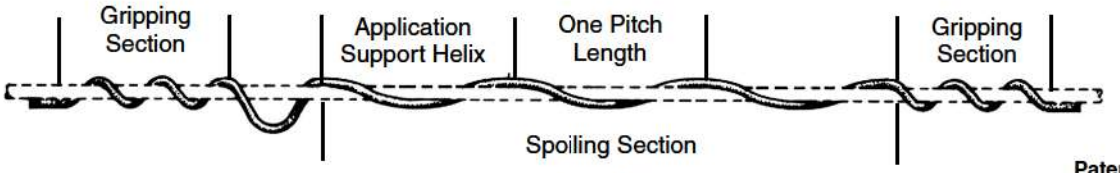


Figure 2

Patented

Application

1. Once the location for installation of the Air Flow Spoiler has been chosen, wrap the Application Support Helix around the cable and slide the Air Flow Spoiler away from you until the first gripping section is in its correct location. The Application Support Helix prevents the Air Flow Spoiler from hanging down while the first gripping section is wrapped on.
2. Wrap on the first gripping section.
3. Now move to the opposite end of the Air Flow Spoiler where the application Support Helix is located then wrap the spoiling section around the cable two times in a right-hand lay direction.

NOTE: For smaller diameter cables which use the Air Flow Spoiler made from 9 mm diameter rod, wrap the spoiling section around the cable three times. (This will limit excessive drooping of the small diameter Air Flow Spoiler during hot weather conditions). See figure 2.

4. Install the second gripping section by wrapping it around the cable and snap the end of the gripping section in place.

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Air Flow Spoiler

Tips on Installation

To assist the installer in determining how many times the Air Flow Spoiler is wrapped around the cable, the following will be helpful:

5. If the spoiling section starts on the top of the cable, the spoiling section should cross over the top once and end up on top of the cable at the second gripping section.
6. In the case of small diameter cables using 9 mm diameter spoilers, the spoiling sections should be wrapped around the cable three times.

General Notes

7. Several Air Flow Spoilers are required in each span to offset the aerodynamic lift forces which cause galloping.
8. The number and placement of Air Flow Spoilers in each span are determined by a computer program which considers the results of on-going field and laboratory research.
9. An Air Flow Spoiler Placement Request form should be completed and returned to Preformed Line Products prior to installation of Air Flow Spoilers. A placement scheme will be returned to determine placement of Air Flow Spoilers in each span.
10. Please advise whether the cables contain optical fibers. This may influence Air Flow Spoiler selection.

Safety Consideration

11. This application procedure is not intended to supersede any construction, safety or design standards. Recommendations are offered only to illustrate safe use of the Air Flow Spoiler. Failure to follow these guidelines and restrictions may result in product misapplication and/or personal injury.
12. When working in the area of energised lines, take extra care to prevent accidental electric contact.
13. For proper performance and personal safety, be sure to select the proper size AirFlow Spoiler before application.
14. This product is intended for use by trained craftsmen only. This product SHOULD NOT BE USED by anyone who is not familiar with and trained in the use of it.

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Figure 8 and Lashed Messenger Cables

Figure 8 and lashed messenger cables are special applications for short span construction. Air Flow Spoilers may be located in accordance with the table below:

SPAN LENGTH IN METRES	AIR FLOW SPOILERS PER CABLE	AIR FLOW SPOILER PLACEMENTS START FROM FIRST STRUCTURE. DISTANCES IN METRES ARE MEASURED FROM SAME END OF AIR FLOW SPOILER, ACCUMULATED DISTANCE IN ( ).					
30 – 40	2	10	(10)	40	(19)	15	(34)
40 – 50	3	10	(10)	40	(19)	40	(28)
		15	(43)				
50 – 60	3	15	(15)	40	(24)	40	(33)
		19	(52)				
60 – 70	4	14	(14)	40	(22)	40	(31)
		9	(40)				

Please contact the factory for recommendations on longer spans. Figure 8 and lashed messenger cables are more difficult to determine correct Air Flow Spoiler sizes. Please provide complete dimensions of the cable so correct size may be established.

CATALOGUE NO.	MESSENGER DIAMETER	CABLE DIAMETER (mm)
AFS 0811-6		08 – 11
AFS 1215-6		12 – 15
AFS 1621-6	6 mm	16 – 21
AFS 2225-6		22 – 25
AFS 0812-10		08 – 12,6
AFS 1318-10	10 mm	13 – 18
AFS 1923-10		19 – 23