



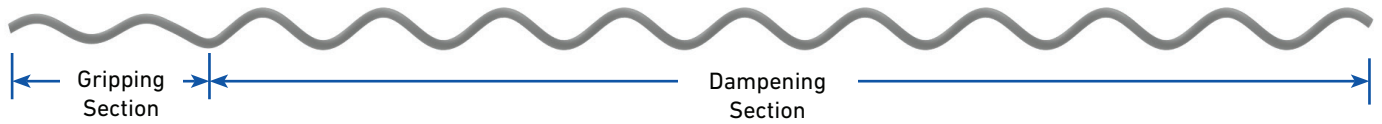
## FIBERLIGN<sup>®</sup> DIELECTRIC DAMPER

The **FIBERLIGN Dielectric Damper** is a motion control product used to dissipate aeolian vibration that may occur on ADSS cable spans. Using the recommended number of dielectric dampers minimizes aeolian vibration and increases cable longevity.

### FEATURES AND BENEFITS

- Helically-formed plastic rod provides an action/reaction motion that disrupts the natural vibration wave of the cable to dissipate aeolian vibration.
- Gripping section of the damper gently holds the ADSS cable, preventing jacket and internal fiber damage or distortion, which can cause optical signal loss.
- Easily installed by hand on standard cable in communications and low-voltage environments
- Can be subsetting for optimal damping performance

## COMPONENTS



Feature	Description
Gripping Section	Gently grips the ADSS cable
Dampening Section	Provides an action/reaction motion with the ADSS cable to decrease aeolian vibration

## ORDERING INFORMATION

Select the appropriate **FIBERLIGN Dielectric Damper** from the table below based on the diameter of the cable. Basic recommendations of dampers per span are listed for moderate conditions and relatively open terrain. Consult PLP for specific recommendations that may involve high tension levels and/or critical crossings.

### FIBERLIGN Dielectric Damper

Catalog Number	Cable Diameter Range		Length in (m)	Per Carton	
	in	mm		Units	Wt./lb
50502393	0.250 – 0.326	6.4 – 8.2	49 (1.24)	50	26
50502272	0.327 – 0.461	8.3 – 11.6	51 (1.30)	50	28
50502274	0.462 – 0.563	11.7 – 14.2	53 (1.35)	50	30
50509862	0.564 – 0.770	14.3 – 19.5	65 (1.65)	50	46
50503057	0.771 – 0.876	19.6 – 22.2	71 (1.80)	25	30
50503576	0.877 – 1.000	22.3 – 25.3	75 (1.91)	25	35
50503909	1.001 – 1.250	25.4 – 31.8	90 (2.29)	25	40

### Basic Recommendations

Standard Span Length	Dampers per Cable Span
0 – 800 ft	2
801 – 1,600 ft	4
1,601 – 2,400 ft	6

**NOTE:** For water/canyon crossings, increase the basic recommendation for the number of dampers per span listed above by 50% for adequate protection against increased laminar wind flow speeds in these areas. In areas prone to high levels of vibration or in areas where the cable tension is in excess of 20% RBS, consult PLP for specific recommendations.

## HIGH-VOLTAGE ENVIRONMENTS

In high-voltage environments (areas where electrical lines are 115 kV and higher or areas where an electrical field analysis places the space potential of the ADSS cable above 12 kV), dampers should be moved 4 to 5 feet further into the span beyond the ADSS hardware due to increased potential for electrical stress. Consult PLP for further guidance.