



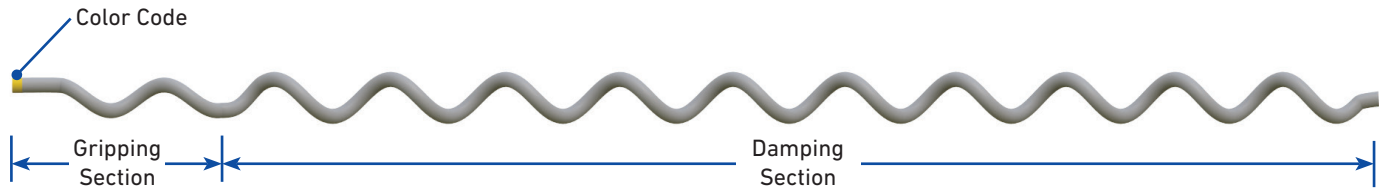
## SPIRAL VIBRATION DAMPER

The **Spiral Vibration Damper** is a motion control product used to dissipate aeolian vibration that may occur on OPGW cable spans. Using the recommended number of Spiral Vibration Dampers minimizes bending strain, protecting the cable from long-term fatigue due to aeolian vibration.

### 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 OPGW, preventing cable and internal fiber damage or distortion, which can cause optical signal loss
- Effective in a broad range of frequencies
- Easily installed by hand
- Can be nested (subsetting) allowing easier installation for optimal protection against vibration

## COMPONENTS



## ORDERING INFORMATION

- Select the appropriate catalog number for the Spiral Vibration Damper from the table below using the OPGW diameter.
- Refer to the Basic Recommendations table below to determine how many Spiral Vibration Dampers to order per span

### Spiral Vibration Damper

Catalog Number	Cable Diameter Range		Length		Per Carton	
	in	mm	in	m	Units	Wt/Lb
5050104	0.327 – 0.461	8.3 – 11.6	51	1.30	50	34
5050105	0.462 – 0.563	11.7 – 14.2	53	1.35	50	36
5050106	0.564 – 0.760	14.3 – 19.3	65	1.65	50	50

### Basic Recommendations

Standard Span Length	Dampers per Cable Span
0 ft – 800 ft	2
801 ft – 1,600 ft	4
1,601 ft – 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 exceeds 20% RBS, consult PLP for specific recommendations.



Substetted Spiral Vibration Dampers