



# DETUNING PENDULUM INSTALLATION INSTRUCTIONS

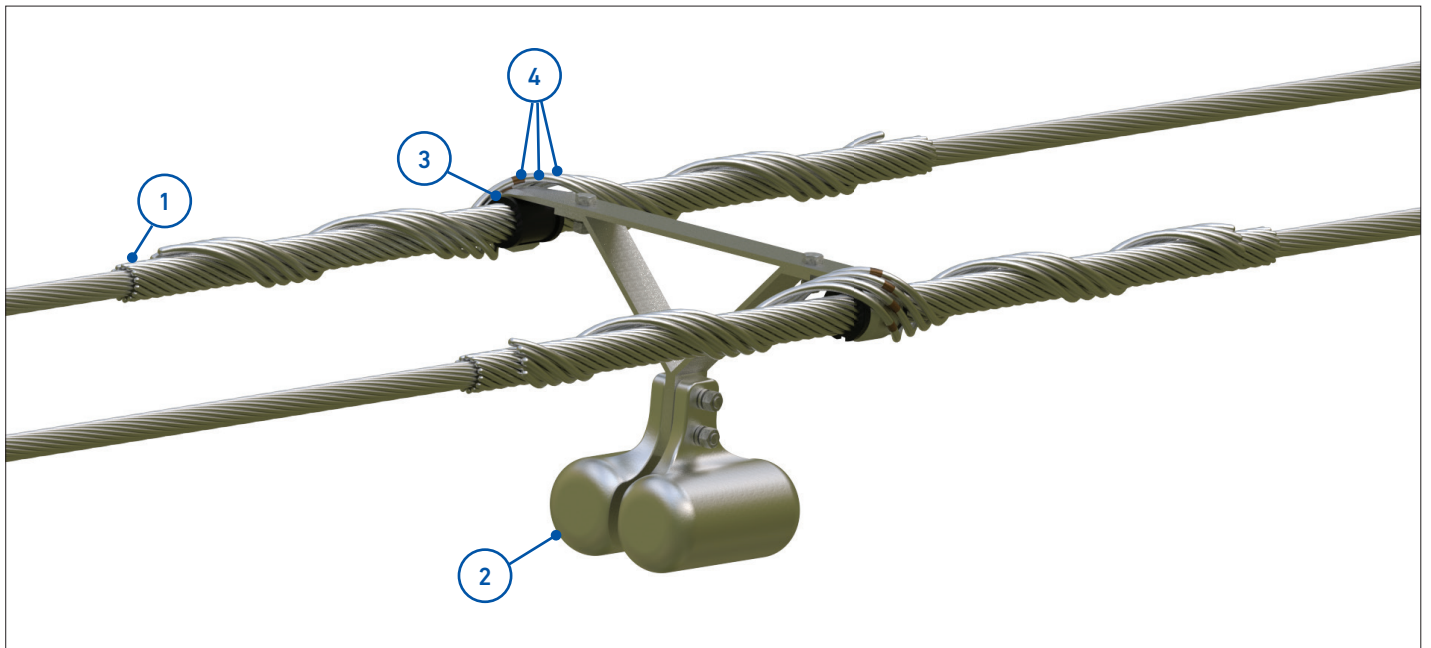


## IMPORTANT SAFETY INFORMATION

**READ AND COMPLETELY UNDERSTAND ALL INSTRUCTIONS BEFORE INSTALLING PRODUCT. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN PERSONAL INJURY OR DEATH.**

This product is intended for use by trained technicians only. This product should not be used by anyone who is not familiar with and not trained to use it. When working in the area of energized lines, extra care should be taken to prevent accidental electrical contact. Be sure to wear proper safety equipment per your company protocol. These instructions are not intended to supersede any company construction or safety standards. These instructions are offered only to illustrate safe installation for the individual. PLP products are intended for the specified application only. Do not modify this product under any circumstances. Do not reuse or reinstall any PLP product unless that capability is expressly indicated in the product's Installation Instructions. For proper performance and personal safety, be sure to select the proper PLP product before installation. PLP products are precision devices. To ensure proper performance, they should be stored in cartons under cover and handled carefully.

## PACKAGE COMPONENTS



1. Structural Reinforcing Rods (SRR)
2. Pendulum Frame and Mass
3. Slit Cushion
4. Retaining Rods

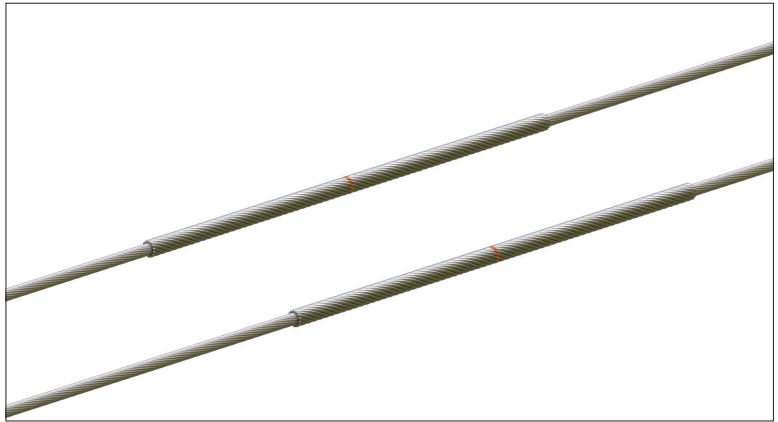
## GENERAL INFORMATION

The Detuning Pendulum is an anti-galloping device designed for single and twin-bundle applications. The mass, number of weights, and torsion arm (i.e., center line distance between the conductor and the weights) will vary according to each particular span factor to which they are applied.

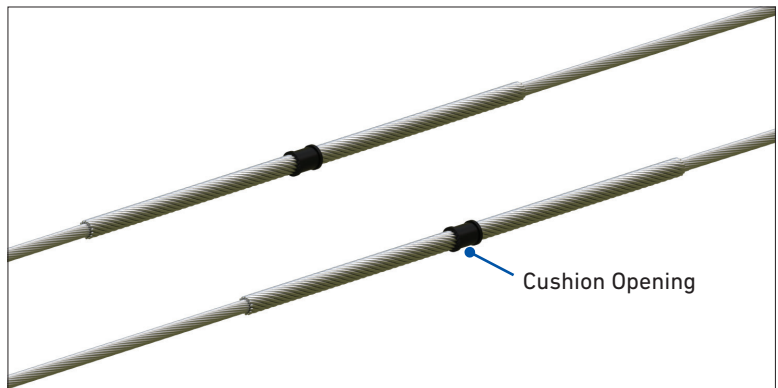
PLP will supply placement recommendations for the proper placement of the Detuning Pendulums. Placement of Detuning Pendulums is project-specific and must be followed in order to ensure proper performance of the product. If placement recommendations are not available, please contact PLP.

- 1 Mark the conductor where the Detuning Pendulum will be applied. The pendulum placement should be within an accuracy of  $\pm 3$  feet.

- 2 Center the color code marks on the Structural Reinforcing Rods (SRR) with the mark on the conductor and apply the SRR to the first conductor. Repeat this step for the second conductor depending on the configuration.



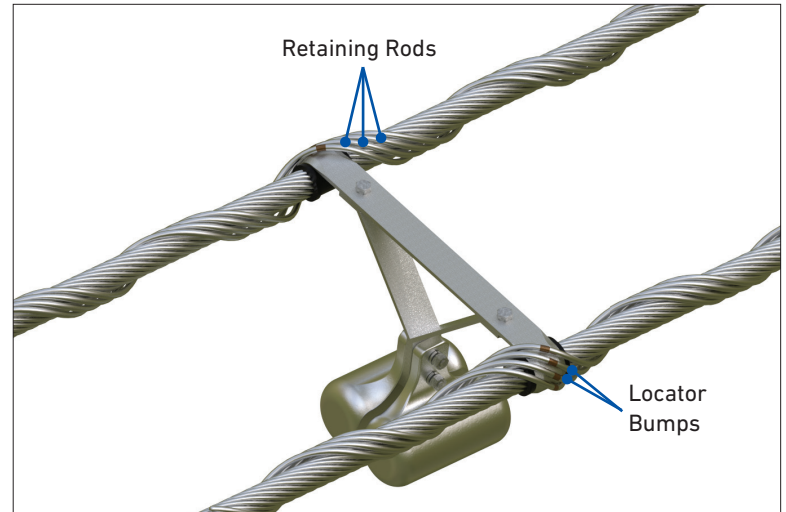
- 3 Apply the slit cushion to the first conductor over the SRRs at the center color code mark and rotate the slit cushion around so that the open portion is facing downward. In cold temperatures, the cushion can become stiff and somewhat difficult to spread open. It helps to keep in a warm location until it is applied. Repeat this step for the second conductor depending on the configuration.



- 4 Apply the Detuning Pendulum so that the arms of the pendulum are centered over the slit cushions on each conductor. Adjust the cushions on the conductor if necessary to ensure that each arm is centered over the slit cushions.



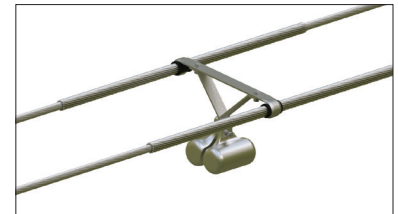
- 5 Apply the retaining rods over the Detuning Pendulum and conductor on the first conductor. There are three locator bumps on the outside arm that show the location of the rods. Ensure that the center color code marks on the retaining rods are positioned between the locator bumps. Repeat this step for the second conductor depending on the bundle configuration.



- 6 Completed installations.



Single Detuning Pendulum



Twin Detuning Pendulum

## GUIDELINES

- Pendulums should be located at the positions indicated on the placement chart with an accuracy of  $\pm 3$  feet.
- The placement of the pendulums within the span could, in some instances, coincide with inaccessible terrain conditions. Should this occur, please reach out to PLP for recommendations.



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