



# THERMOLIGN® SPLICE

## INSTALLATION INSTRUCTIONS

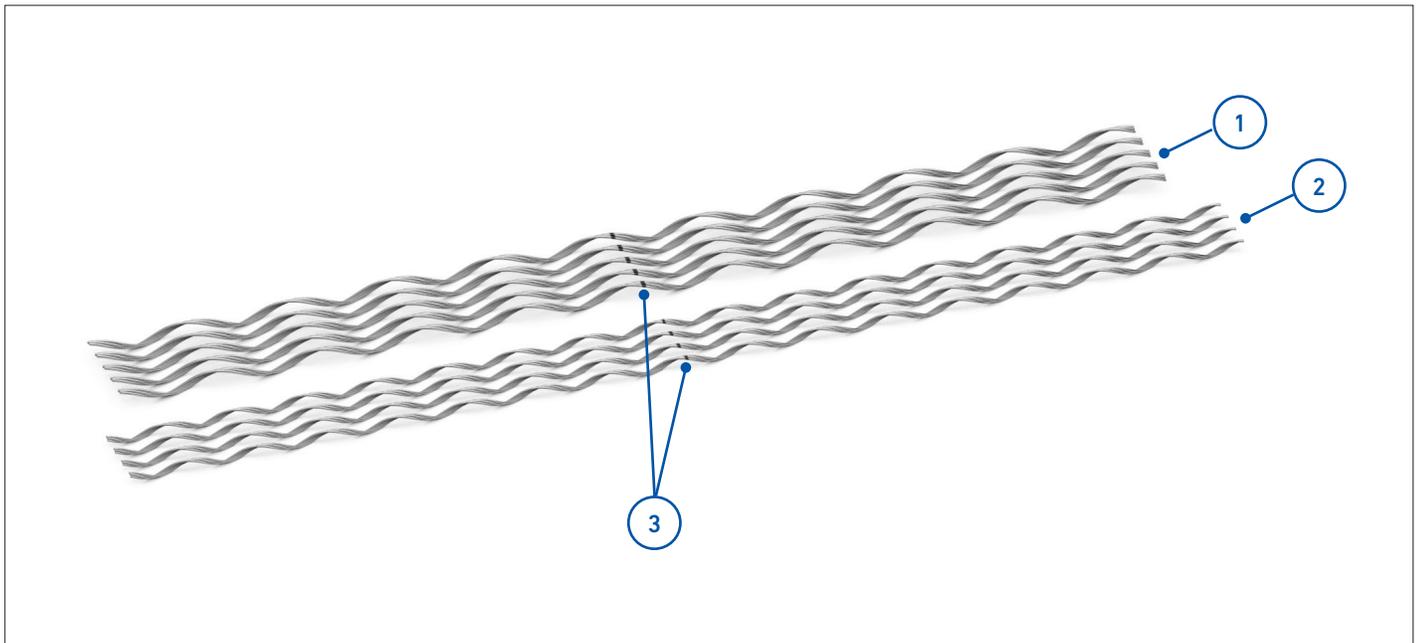


### IMPORTANT SAFETY INFORMATION

**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. Inner Rods (multiple subsets)
2. Outer Rods (multiple subsets)
3. Center Mark & Color Code

#### Tools Required:

- Safety gloves
- Vinyl tape
- Wire brush
- Quality inhibitor

## GENERAL DESCRIPTION

THERMOLIGN Splices consist of two layers of gritted conductive aluminum alloy rod sets which in combination are designed to hold 95% of the conductor rated strength (RBS) without separately splicing the conductor core. The two layer design provides sufficient aluminum cross-section and surface area to dissipate the heat of a conductor operating at a continuous temperature of up to 250°C.

THERMOLIGN Splices are intended for use on ACSS/AW and ACCR conductors only. For ACSS/TW, THERMOLIGN Splices are approved for use on General Cable and Southwire® conductors only. For 3M ACCR/TW and Southwire C7/TW conductors, please contact PLP for Details.

### CAUTION

THERMOLIGN Splices are not approved for use on conductors other than those noted above.

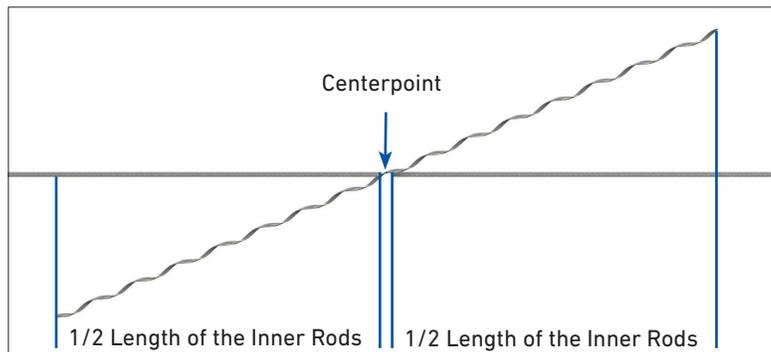
## GENERAL NOTES

- To ensure a reliable electrical connection, all conductors new or weathered must be thoroughly scratch brushed until bright and clean immediately prior to installation of the THERMOLIGN® Splice.
- A quality inhibitor must be applied to retard oxidation.
- THERMOLIGN Splices must **NOT** be reapplied after initial installation.
- THERMOLIGN Splices are not designed for use at support points (only within the span).
- THERMOLIGN Splices are precision devices which should be handled carefully to prevent distortion and damage.
- THERMOLIGN Splices should be stored in cartons, under a cover.

## CONDUCTOR PREPARATION

**1** Wrap a single layer of vinyl tape around each conductor end to prevent the strands from flaring during installation.

**2** Thoroughly clean the conductors to be spliced by wire brushing them along the full length of the inner rod until the surface is bright and free of oxidation or contaminants.



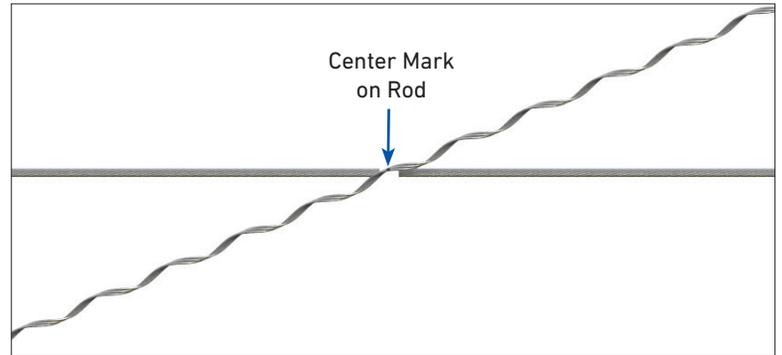
**3** Apply a high-quality inhibitor to the cleaned area of both conductors, ensuring the entire exposed surface is evenly coated.

## APPLY INNER RODS

**4** Position one of the inner rod subsets (the one containing the greatest number of rods) so that the center mark aligns in the gap between the conductor ends.

**NOTE:** The maximum gap between the ends of the conductors can be no greater than 2" upon installation of the THERMOLIGN Splice.

- 5 Wrap on the first subset, starting from the center and work outward in both directions.



- 6 Position the second subset of inner rods tightly against the first subset and wrap from the right side so that each rod applies into the previously installed subset. Continue wrapping until this side is fully applied.

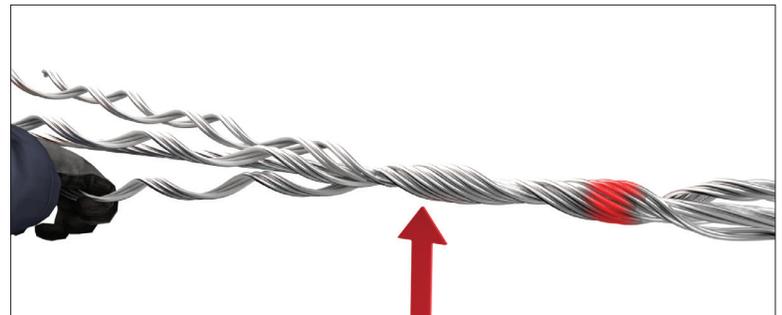
- 7 On the opposite side of the splice, apply only one or two wraps (itches) of the second subset—just enough to keep it from shifting during installation. **DO NOT fully apply this side yet.**

**NOTE:** This side of the subset wraps in the opposite direction from the first subset, which can cause an excessive gap at the rod ends if fully applied now.

- 8 Repeat **Steps 6 and 7** for each remaining inner rod subset until you reach the final one. Center the last inner rod subset over the splice area and fully apply the right-side legs as done previously. At this point, the entire right side of the inner rod splice should be fully installed.

- 9 Fully apply the final inner rod subset installed in **Step 8** on the left side of the splice.

**NOTE:** This subset now wraps into the first subset originally applied, as indicated by the directional arrow.



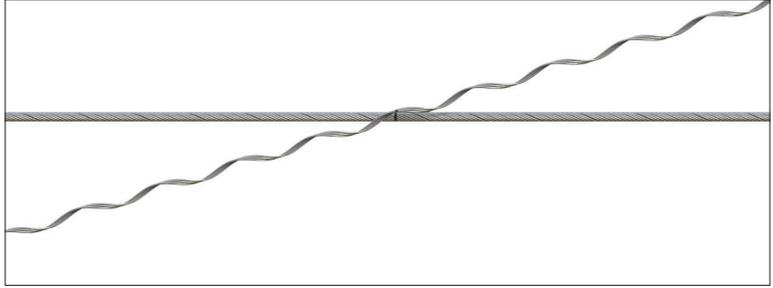
- 10 Identify which of the remaining unapplied subsets on the left side wraps into the last installed subset, and fully apply it. Continue this process for all unapplied subsets on the left side, applying each remaining subset one at a time.

**NOTE:** The subsets on the left side are applied in the reverse order of those on the right side. Ensure all rod leg ends are fully seated and snapped securely into place.



## APPLY OUTER RODS

- 11** Line up the center mark of the first subset of outer rods with the center marks on the inner rods and wrap on, starting from the center and working outward in both directions.



- 12** Position the second subset of outer rods tightly against the first set and repeat **Steps 6-10**.

- 13** Repeat **Step 12** for each remaining subset of outer rods until all are securely wrapped, tight against the conductor, and fully snapped into place. This completes the installation.

