



# GUY-GRIP® DEAD-END FOR EQUALIZING THE TENSION OF MULTIPLE DOWN GUYS INSTALLATION INSTRUCTIONS



## ⚠ IMPORTANT SAFETY INFORMATION

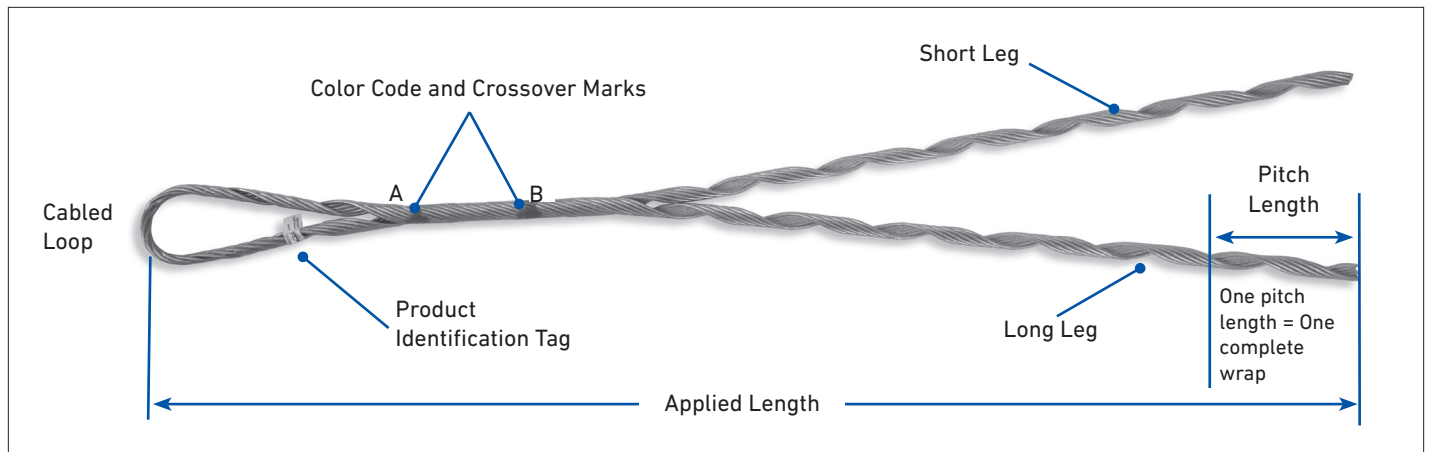
**READ AND COMPLETELY UNDERSTAND ALL INSTRUCTIONS BEFORE INSTALLING PRODUCT. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN PERSONAL INJURY OR DEATH.**

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.

## ⚠ WARNING

PLP Products are not designed or tested for uses other than those set forth herein. This includes, but is not limited to, rope/challenge courses, aerial adventures, canopy tours, and zip line applications. If PLP Products are used in such applications, they may be subjected to forces and stresses for which they are not designed, and which could result in **SERIOUS INJURY OR DEATH**.

## CHARACTERISTICS



Crossover marks labeled "A" is to be used as strand starting point on small seated hardware and anchor rods. Utilize crossover marks labeled "B" (provided only on 3/8" and smaller strand applications) as strand starting point for seat diameters larger than specified in the table in the Product Catalog, guy strain insulators requiring a longer loop or bigger seat diameter, or strand connectors with set diameters greater than 1-3/4".

L-Series GUY-GRIP Dead-Ends have only one set of crossover marks at "A".

## INSTALLATION GUIDELINES

### CAUTION

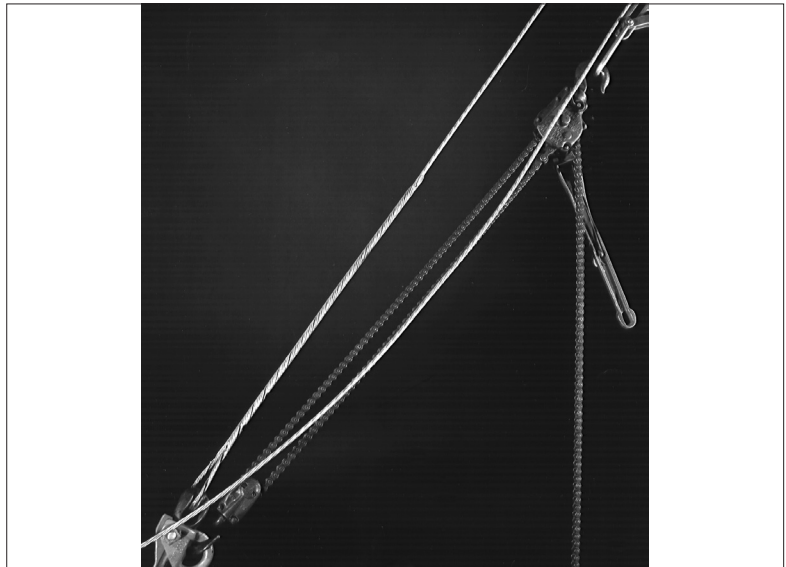
Failure to follow the precautions, notes, and steps contained within these Installation Instructions represents a misapplication of the product.

- GUY-GRIP Dead-Ends are precision devices. To ensure a tight assembly, they should be handled carefully. To prevent distortion and damage, they should be installed only as illustrated.
- Within the first three months after the initial application, GUY-GRIP Dead-Ends may be removed and reapplied two times after the initial application for the purpose of retensioning the guy. After three months, a new dead-end should be used anytime removal is required.
- GUY-GRIP Dead-Ends should be used only on the size strand for which they are designed.
- GUY-GRIP Dead-Ends **should not** be used as tools; that is, as come-alongs, pulling-in grips, etc.
- GUY-GRIP Dead-Ends are not acceptable for Overhead Shield Wire.
- GUY-GRIP Dead-Ends should be applied only to smooth-contoured pole line hardware which has ample radius. Drive hooks, eye bolts and nuts do not have ample radii. The grip must be seated completely in the proper groove of the mating hardware to assure the wires of the loop don't lie across a ridge that may be present in the hardware. See Acceptable Fittings and Caution box in the Product Catalog.
- GUY-GRIP Dead-Ends should be used on hardware that is held in a fixed position; the fitting should **not** be allowed to rotate or spin.
- GUY-GRIP Dead-Ends should be used with compatible strand and fittings.
- Lay direction of both the GUY-GRIP Dead-Ends and the strand should be the same. Most strand is left-hand lay.
- GUY-GRIP Dead-Ends should not be used as false dead-ends.
- For best product performance, guy tensions should be maintained at a minimum of approximately 10% of the strand's Rated Breaking Strength (RBS).
- If in doubt about fittings or application, contact your factory representative for an engineering recommendation.

## HOW TO OBTAIN EQUALIZED TENSION IN MULTIPLE GUYING USING THE PLP POSITIVE CONTROL METHOD

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Apply and tension the first down guy per the single guy application procedure (SP2045). Install and apply tension to the second down guy wire until the first guy begins to slacken. Continue to increase tension by two more clicks on the hoist.

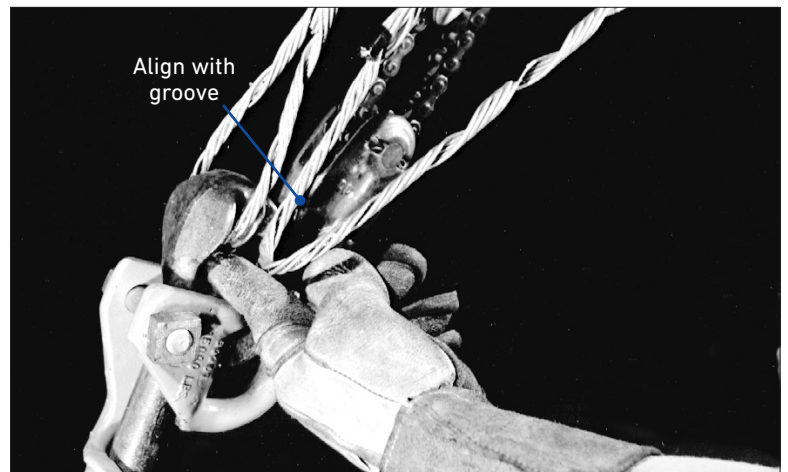


- 2 Tape the end of the second guy approximately 3" above the anchor rod and cut the strand.

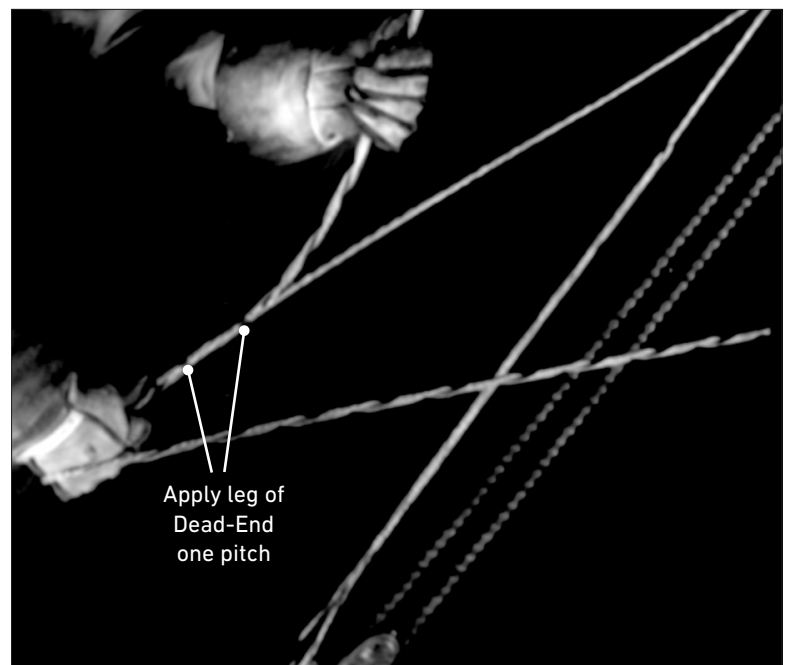
**NOTE:** If desired, the tail can extend through the loop for grounding purposes.



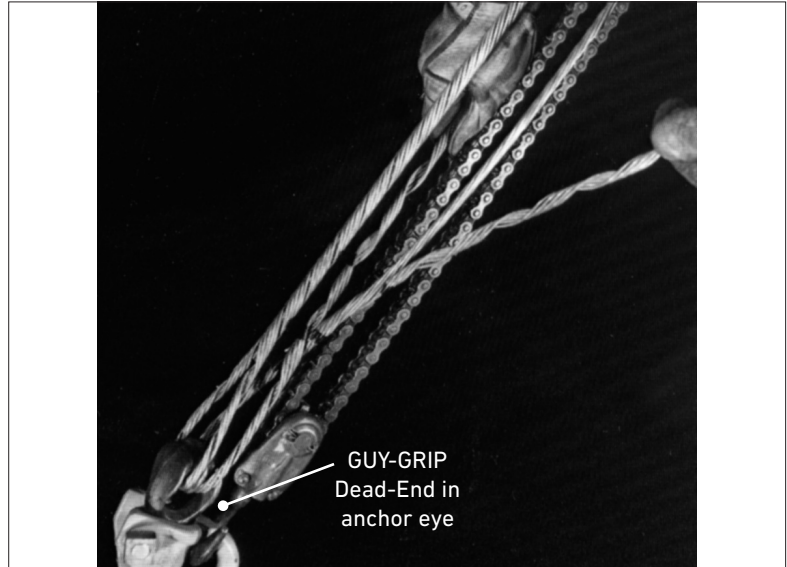
- 3 Position the strand in the GUY-GRIP® Dead-End at the crossover mark (closest to the loop of the dead-end). Pull down while grasping the strand with the right hand, removing as much slack as possible. Using the left hand, align the loop of the GUY-GRIP Dead-End with the groove in the anchor eye as shown below.



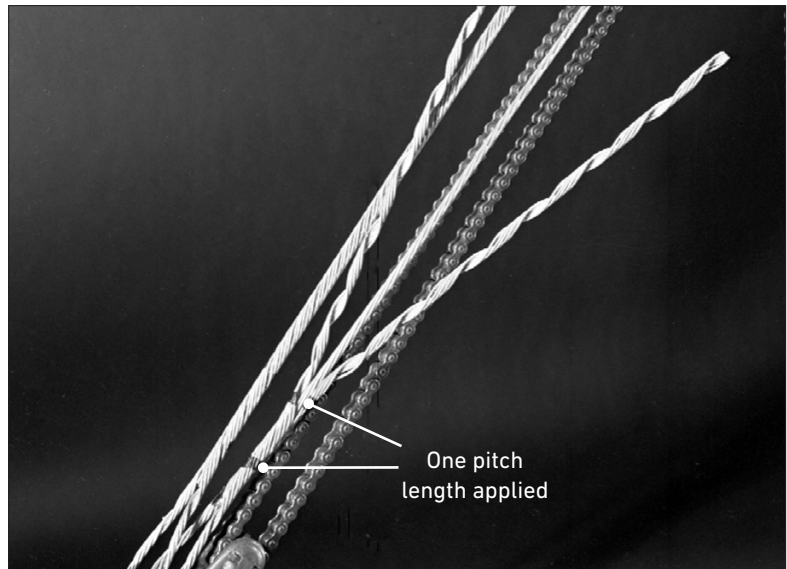
- 4 Hold the strand tail in place at the crossover mark. Using your thumb, begin wrapping the first leg of the GUY-GRIP Dead-End. Wrap on one pitch length.



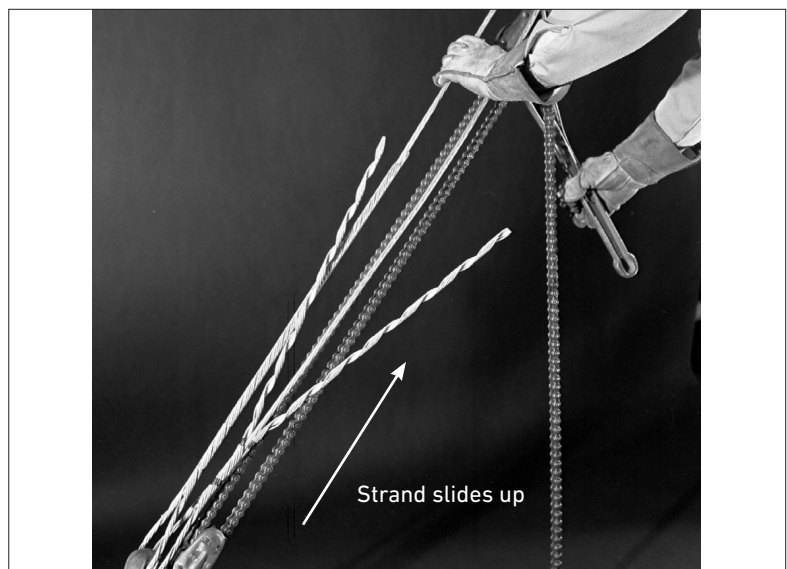
- 5 Insert the second leg of the GUY-GRIP® Dead-End through the anchor rod eye, line up the cross-over marks of both legs, and **wrap the second leg onto the strand one pitch length**.



- 6 Both legs applied one pitch length shown.



- 7 Slowly release the hoist, allowing the strand to slip through the GUY-GRIP Dead-End, until the tension appears to be equalized between the two guy wires. When the proper tension is reached, wrap the legs of the GUY-GRIP Dead-End onto the strand to completion ensuring that all leg ends are snapped into place before removing the hoist.




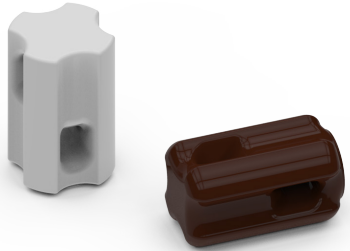


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Shown to the right is the completed double down guy application of the GUY-GRIP Dead-End. To ease the final application of the leg ends, the individual wires may be split and rolled back as shown in the picture to the right. Make sure that all rod ends are snapped into place.



## ACCEPTABLE FITTINGS

Thimble Eye Bolts or Rods	Thimble Eye Nut & Thimble Eye
	
Pole and Fiberglass Guy Strain Insulators (ANSI C29.14b-2021)	Porcelain Guy Strain Insulators (ANSI 54-1, 54-2, 54-3, or 54-4)
	



For installation of single down guys on a pole, see installation instructions **SP2045**. Scan this QR code to download now or visit [PLP.COM](http://PLP.COM).







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