

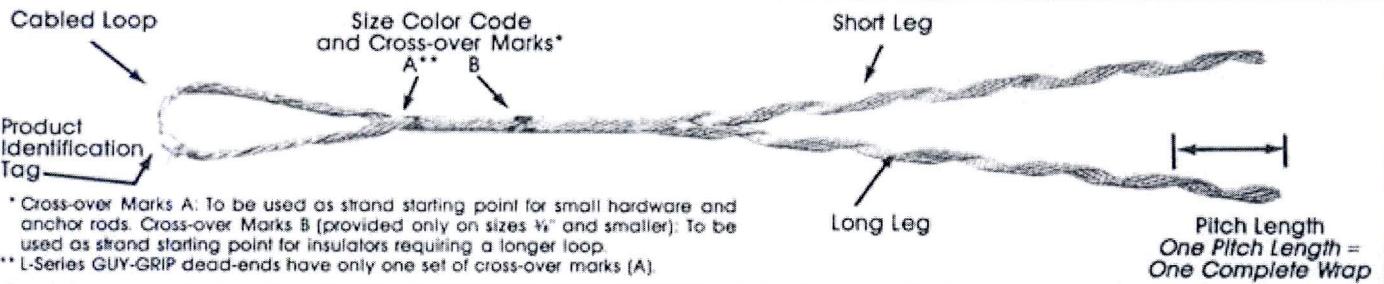


APPLICATION PROCEDURE & SAFETY CONSIDERATIONS

PREFORMED LINE PRODUCTS

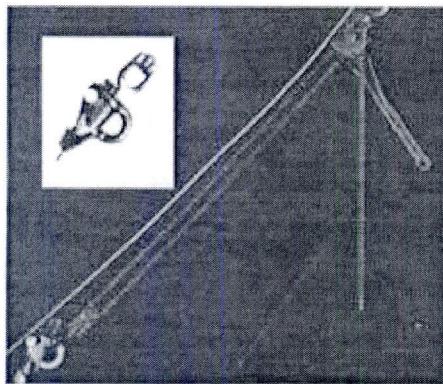
GUY-GRIP® dead-end

Be sure to completely read and understand this procedure before applying product.

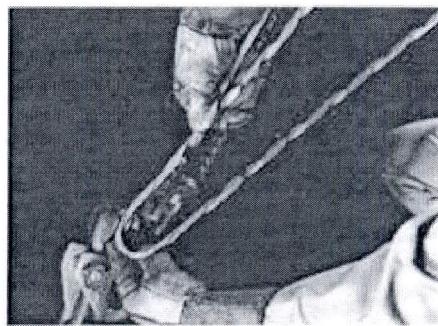


Be sure to select the proper size PREFORMED™ product before application.

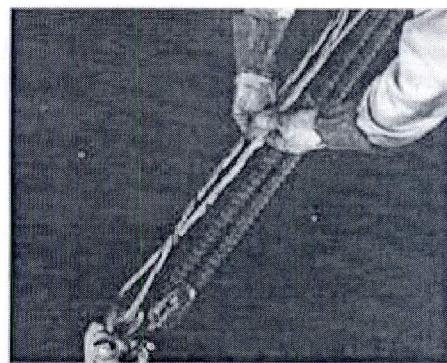
Application at the Anchor: Single Guy



1. Position pulling eye as shown (see inset) on anchor rod. Attach hoist and pull the guy to desired tension.



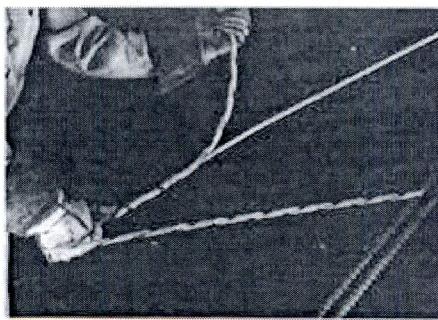
3. Position the strand in the grip at the cross-over mark nearest the loop; with the right hand, pull down on the strand to remove as much slack as possible. Using the left hand, align the loop of the grip with the groove in the anchor rod eye. After proper alignment is made, apply thumb pressure at the cross-over mark to hold strand tail in place, then ...



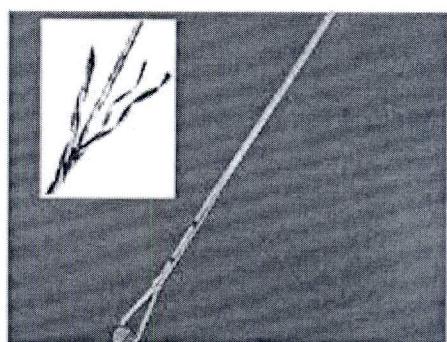
5. Insert second leg through the anchor rod eye, match the cross-over mark and apply.



2. Tape strand (if necessary) and cut one hand's width or approximately 3" above anchor rod. (NOTE: if desired, the tail can, instead, extend through the loop for grounding purposes.)



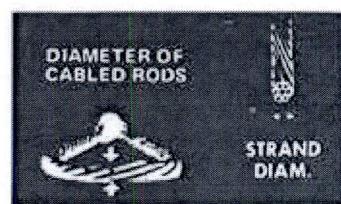
4. ...hold strand away from the hoist and apply the first leg except for the last two pitches.



6. To ease the application, on the last two pitches the legs may be split (see inset). Make sure all rod ends are snapped into place before removing hoist. Shown is the completed single guy application of GUY-GRIP dead-end.

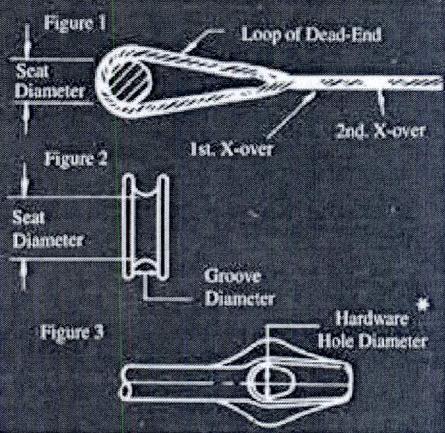
Cabled Loop:

Anchor eyes and other fittings need groove diameters only slightly larger than the strand because the diameter of the cabled rods of GUY-GRIP® dead-ends approximates strand diameter. Cabled loops are designed for a variety of fittings with dimensions shown in the table below.



FITTING DIMENSIONS*** FOR USE WITH Cabled-Loop GUY-GRIP® dead-ends

DEAD-END DIAMETER RANGE (INCHES)	NOMINAL STRAND SIZES		SEAT DIMENSIONS (Figures 1 & 2)			MINIMUM GROOVE DIAMETER (In.) (fig. 2)	MINIMUM HOLE DIAMETER* (In.) (fig. 3)
	GALV. STEEL	ALUMOWELD®	Min. seat diameter with dead- end at first cross- over mark.	Max. seat diameter with dead- end at first cross- over mark.	Max. seat diameter with dead- end at sec- ond cross- over mark.		
.123-.143	1/8	—	3/4	1-3/4	—	3/16	1/4
.144-.173	5/32	—	3/4	1-3/4	2-1/2	1/4	5/16
.174-.203	3/16	—	1-0	1-3/4	2-1/2	1/4	3/8
.204-.230	7/32	3 # 10, 4M3	1-1/8	1-3/4	2-1/2	5/16	3/8
.231-.259	1/4	7 # 12, 6M	1-1/8	1-3/4	2-1/2	5/16	7/16
.260-.291	9/32	7 # 11, 8M	1-1/8	1-3/4	2-1/2	3/8	1/2
.292-.336	5/16	7 # 10, 10M	1-1/4	1-3/4	2-1/2	3/8	9/16
.337-.394	3/8	7 # 8, 14M, 16M	1-3/8	1-3/4	2-1/2	7/16	5/8
.395-.474	7/16	7 # 7, 18M, 20M	1-3/8	2-3/8	2-1/2	1/2	11/16
.475-.515	**	7 # 6	1-3/8	2-3/8	—	9/16	3/4
.516-.570	**	7 # 5, 25M	1-1/2	2-5/8	—	5/8	15/16



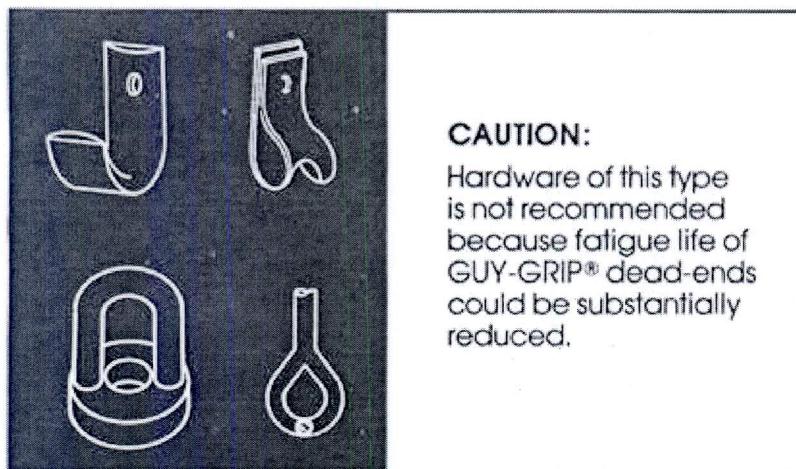
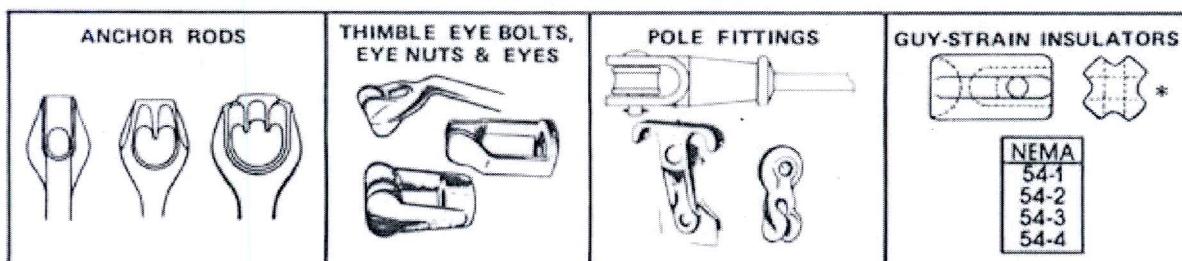
* Depending on Geometric Shape of the Hole, a Hole Diameter Less Than Specified may be Acceptable.

** Use Big-Grip dead-ends (Refer to Section II-D of the Transmission & Distribution catalog).

*** Fittings with sharp corners should not be used because this will reduce fatigue life.

Alumoweld is a registered trademark of the Copperweld Co.

ACCEPTABLE FITTINGS



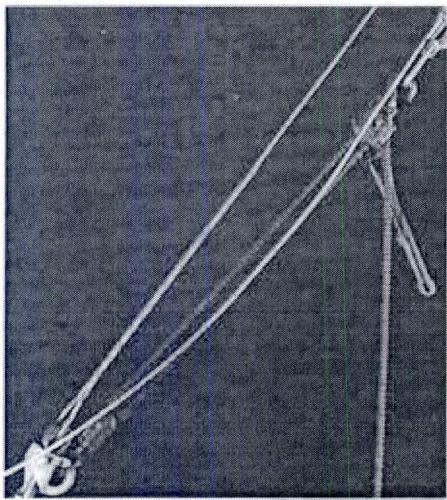
CAUTION:

Hardware of this type is not recommended because fatigue life of GUY-GRIP® dead-ends could be substantially reduced.

* L-Series GUY-GRIP dead-ends will only accept NEMA 54-1 guy-strain insulators. Use GUY-GRIP® dead-ends for larger guy-strain insulators.

PREFORMED LINE PRODUCTS 
P.O. Box 91129, Cleveland, Ohio 44101 (216) 461-5200

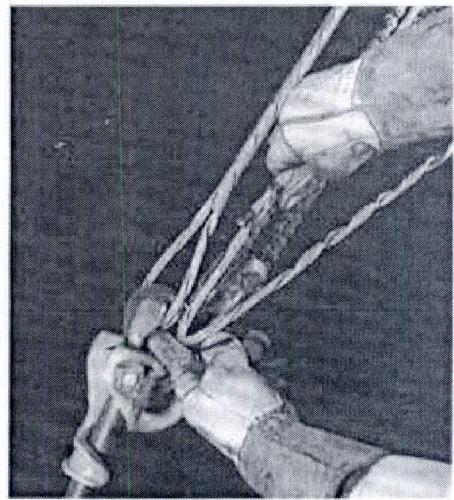
How to obtain equalized tension in multiple guying using the **PREFORMED™ Positive Control Method**



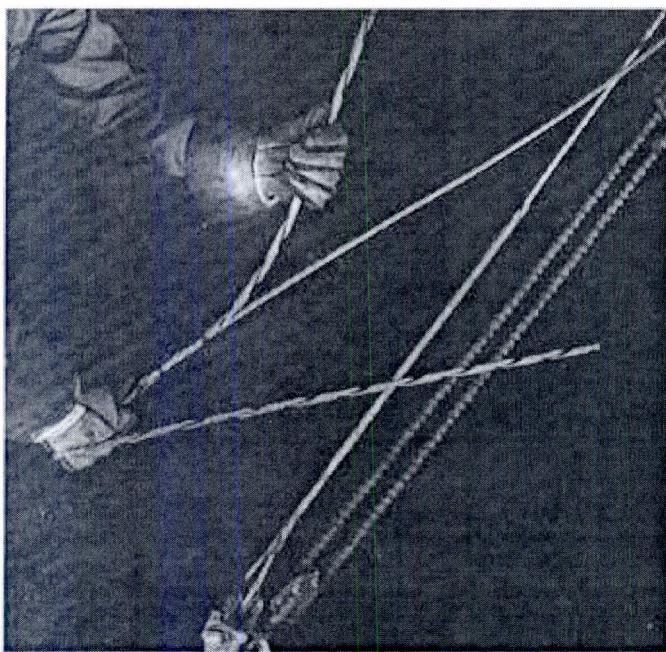
1. After the first guy is completed, pull the second guy until the first guy begins to slacken, then increase the tension about two notches (or clicks) on the hoist.



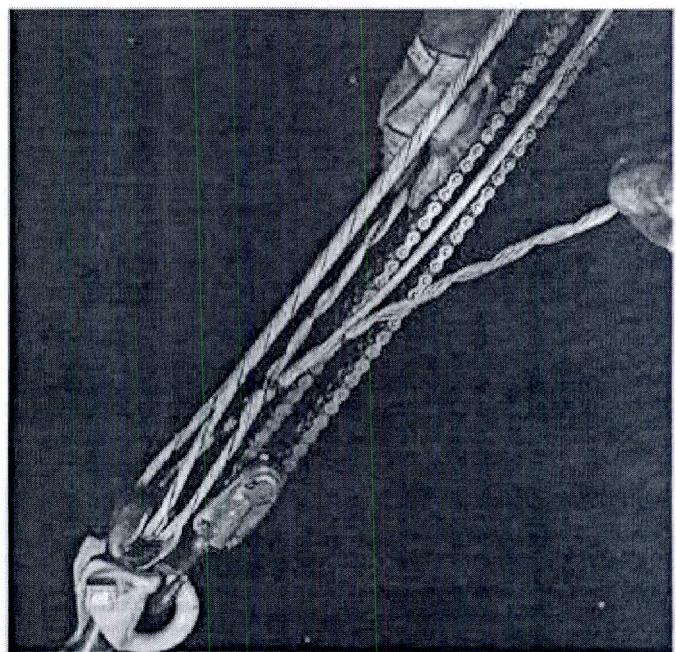
2. Tape strand (if necessary) and cut one hand's width or approximately 3" above anchor rod. (NOTE: if desired, the tail can, instead, extend through the loop for grounding purposes.)



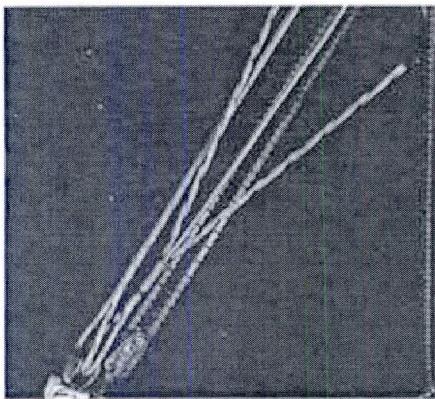
3. Position the strand in the GUY-GRIP dead-end at the cross-over mark nearest the loop; with the right hand, pull down on the strand to remove as much slack as possible. Using the left hand, align the loop of the GUY-GRIP dead-end with the groove in the anchor eye.



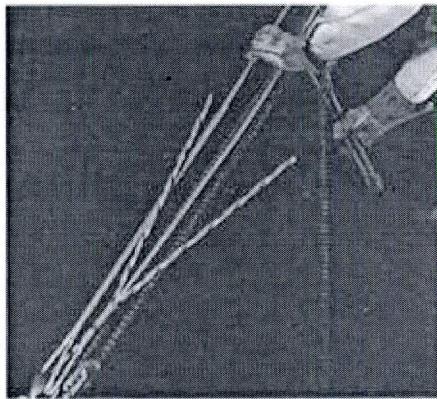
4. After proper alignment is made, apply thumb pressure at the cross-over mark to hold the strand tail in place, then apply first leg of GUY-GRIP dead-end from first cross-over mark to the second cross-over mark (one pitch length only).



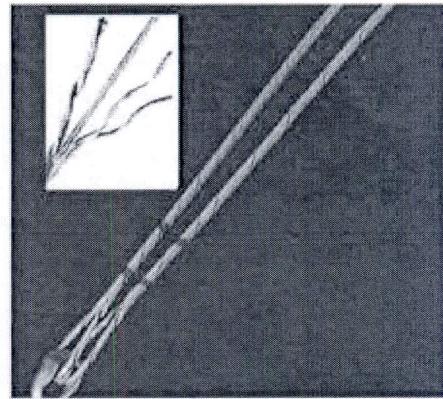
5. Insert second leg of GUY-GRIP dead-end through anchor rod eye, match the cross-over marks and apply approximately one pitch length.



6. Both legs applied one pitch length.



7. Now – release the hoist slowly, allowing the strand to slide through the applied portion of the GUY-GRIP dead-end until the tension is equalized. After desired tension is obtained in each guy, wrap the GUY-GRIP dead-end completely onto the strand.



8. To ease the application, on the last two pitches the legs may be split (see inset). Make sure all rod ends are snapped into place before removing hoist. Shown is the completed double guy application of GUY-GRIP® dead-end.

INSTALLATION GUIDELINES:

1. GUY-GRIP dead-ends are precision devices. To insure a tight assembly, they should be handled carefully. To prevent distortion and damage, they should be installed as illustrated.
2. GUY-GRIP dead-ends should be stored in cartons under cover – preferably shelf storage – until used.
- 3A. GUY-GRIP® dead-ends should not be reused after the initial installation.
- 3B. Within the first three months after the initial application, GUY-GRIP® dead-ends may be removed and reapplied two times after initial application for the purpose of retensioning the guy. After three months a new dead-end should be used anytime removal is required.
4. GUY-GRIP dead-ends should be used only on the size strand for which they are designed.
5. GUY-GRIP dead-ends **should not** be used as tools; that is, come-alongs, pulling-in grips, etc.
6. GUY-GRIP dead-ends should be applied only to smooth-contoured pole line hardware

which has ample radius (Drive hooks, eye bolts and eye nuts do not have ample radii.). See Acceptable Fittings and Caution box on back page.

7. 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.
8. GUY-GRIP dead-ends should be used with compatible strand and fittings.
9. Lay direction of both the GUY-GRIP dead-ends and the strand should be the same. Most strand is left-hand lay.
10. GUY-GRIP dead-ends should not be used as false dead-ends.
11. For best product performance guy tensions should be maintained at a minimum of approximately 10% of the Strand's Rated Breaking Strength (RBS).
12. If in doubt about fittings or application, contact your factory representative for an engineering recommendation.

SAFETY CONSIDERATIONS

1. This application procedure is not intended to supersede any company construction or safety standards. This procedure is offered only to illustrate safe application for the individual. **CAUTION: FAILURE TO FOLLOW THESE PROCEDURES AND RESTRICTIONS MAY RESULT IN PERSONAL INJURY OR DEATH.**
2. This product may be applied twice for retensioning within 90 days of installation; after 90 days do not reuse. This product is intended for the specified application. **CAUTION: DO NOT REUSE after 90 days OR MODIFY THIS PRODUCT UNDER ANY CIRCUMSTANCES.**
3. This product is intended for use by trained craftspeople only.

This product **SHOULD NOT BE USED** by anyone who is not familiar with and trained in the use of it.

4. When working in the area of energized lines with this product, **EXTRA CARE** should be taken to prevent accidental electrical contact.
5. For **PROPER PERFORMANCE AND PERSONAL SAFETY** be sure to select the proper size PREFORMED™ product before application.
6. PREFORMED products are precision devices. To insure proper performance, they should be stored in cartons under cover and handled carefully.

continued on back page