

# APPLICATION PROCEDURE & SAFETY CONSIDERATIONS **PREFORMED** LINE PRODUCTS

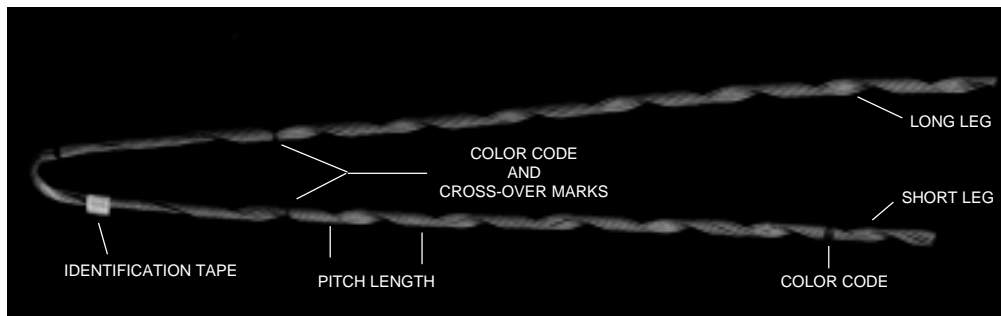


MARCH 1994

## **BIG-GRIP DEAD-ENDS FOR PHILLYSTRAN® STRUCTURAL GUYS**

Be sure to completely read and understand this procedure before applying product. Be sure to select the proper size PREFORMED™ product before application.

### 1.00 NOMENCLATURE



**Identification Tape** - Shows catalog number, nominal sizes.

**Pitch Length** - Assists in identification of strand size, corresponding to tabular information appearing in catalog.

**Color Code** - Assists in identification of strand size, corresponding to tabular information appearing in catalog.

**Cross-Over Marks** - Indicates starting point for application.

**Short Leg-Long Leg** - Identifies rods belonging to each leg, after application. During application, the short leg should be applied first.

**NOTE: Lay direction is right hand lay**

### 2.00 DESCRIPTION

2.01 Position the PHILLYSTRAN at the BIG-GRIP dead-end's crossover mark. (Figure 1)

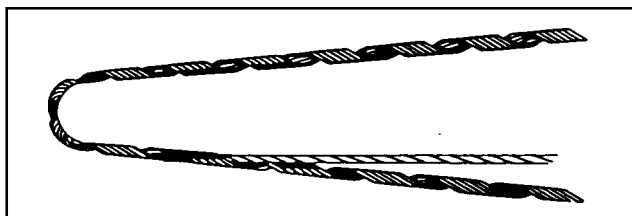


FIGURE 1 – POSITION PHILLYSTRAN

2.02 Apply the first leg on the PHILLYSTRAN and begin wrapping until the first two pitches lengths are applied. (Figure 2)

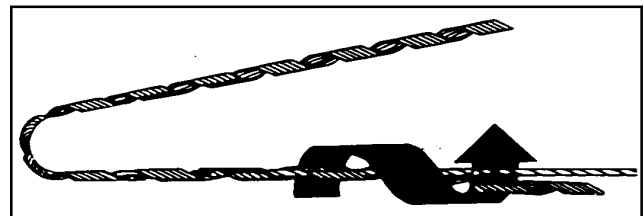
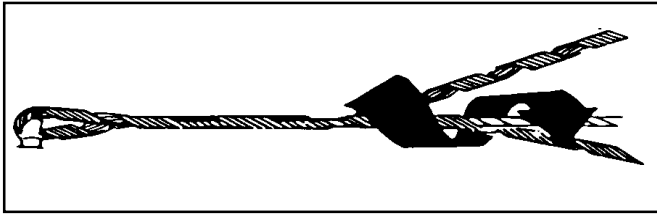


FIGURE 2 – BEGIN WRAPPING

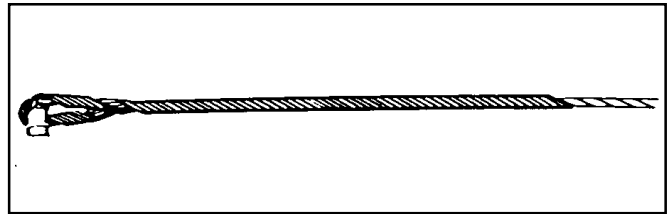
2.03 Position the second leg at the crossover mark and apply it on the PHILLYSTRAN, wrapping it to the point where leg one is located.

**2.04** Continue to wrap both legs of the BIG-GRIP dead-end simultaneously. (Figure 3)



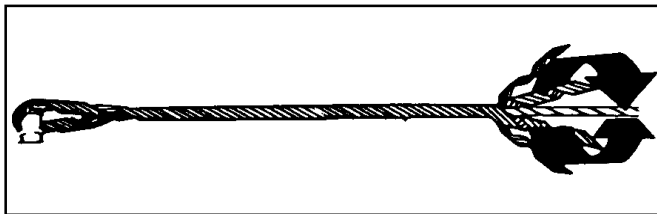
**FIGURE 3 – CONTINUE TO WRAP BOTH LEGS**

**2.06** Completed application. (Be sure that all rod ends are snapped into place). (Figure 5)



**FIGURE 5 – COMPLETED APPLICATION**

**2.05** To facilitate ease of application, split the last two pitch lengths of both legs into two subsets each, and apply to completion. (Figure 4)



**FIGURE 4 – SPLIT LAST TWO PITCH LENGTHS**

#### 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. Failure to follow these procedures may result in personal injury.
2. When working in the area of energized lines, extra care should be taken to prevent accidental electrical contact.
3. For proper performance and personal safety, be sure to select the proper size PREFORMED Products before application.
4. This product is intended for use by trained craftspeople only. This product should not be used by anyone who is not familiar with, and not trained to use it.

# BIG GRIP DEAD-ENDS FOR PHILLYSTRAN STRUCTURAL GUYS

## HARDWARE ACCESSORIES DIMENSIONS

Strand Diameter (inches)	Nominal Strand (inches)	Seat Dimensions (inches)		Minimum Groove Diameter (inches)	Minimum Hardware Hole Diameter (inches)					
		Min.	Max.							
.174-.203	3/16	1	1-3/4	1/4	3/8					
.204-.230	7/32	1-1/8	1-3/4	5/16	3/8					
.231-.259	1/4	1-1/8	1-3/4	5/16	7/16					
.260-.291	9/32	1-1/8	1-3/4	3/8	1/2					
.292-.336	5/16	1-1/4	1-3/4	3/8	9/16					
.337-.394	3/8	1-3/8	1-3/4	7/16	5/8					
.395-.474	7/16	1-3/8	2-3/8	1/2	11/16					
.475-.515	1/2	1-3/8	2-3/8	9/16	3/4					
.516-.570	9/16	1-1/2	2-5/8	5/8	15/16					
.571-.635	5/8	2	2-5/8	3/4	1					
.636-.772	3/4	2-1/2	3-1/8	7/8	1-3/16					
.773-.868	-	2-1/2	3-5/8	1	1-3/8					
.869-1.024	1	3	4-1/8	1	1-3/8					
1.025-1.27	-	3-1/2	5-1/8	1-3/8	1-3/4					
1.30	-	4	5-1/8	1-3/8	1-15/16					
Figure 1.		Figure 2.		Figure 3.						

**TABLE 1**

## GENERAL NOTES

1. PREFORMED Big-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. Big-Grip dead-ends should be stored in cartons under cover – preferably shelf storage – until used.
3. Care should be taken to avoid gauging or damaging the corrosion preventive material when using aluminum-clad steel or copper covered steel strand.
4. Big-Grip dead-ends should be used only on the size and type of strand for which they were designed.
5. Big-Grip dead-ends must have the same lay direction as the strand to which they are applied.
6. Big-Grip dead-ends should not be used on hardware which allows the strand to rotate or spin about its axis, such as a swivel.
7. Big-Grip dead-ends should not be applied with tools. They should be applied by hand. However, a screwdriver may be used as an aid in splitting the legs as shown in Step 2.05.
8. When splitting the legs, do not make more than two subsets (split sections) from each leg.
9. **CAUTION:** Big-Grip dead-ends must not be used as tools; for example, come-alongs or pulling-in grips.
10. A. Big-Grip dead-ends may be removed and reapplied two times, if necessary, for the purpose of retensioning guys.  
B. If removal is necessary after a Big-Grip dead-end has been installed for a period greater than three months, it should be replaced with a new one.
11. A. Big-Grip dead-ends are designed to be applied over smoothly contoured hardware. The dimensions of this hardware for various sizes of Big-Grip dead-ends are listed in Table 1.  
B. Heavy-Duty-Type Cable Thimbles, if used, can collapse when guy tensions are high. If thimbles are used in the loop of the Big-Grip dead-end, a large pin is recommended to fill the loop of the thimble to prevent distortion. The collapsing strength of the thimble and the proper pin size should be obtained from the thimble manufacturer. (See Table 1)
12. If in doubt about fittings or applications, contact your factory representative for an engineering recommendation.

**PREFORMED LINE PRODUCTS**

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