

## PHILLYSTRAN® PROCEDURE FOR NICOPRESS® TERMINATION

353-2/06

### GENERAL:

This procedure covers the proper method of terminating Phillystran® cables with Nicopress copper oval sleeves. This termination method is only recommended for static applications with ropes 1/2" or below.

### NICOPRESS SLEEVE SELECTION:

The proper sleeve size should be matched to the cable to provide a snug fit which can be easily assembled. Sleeves that are too large or too small will result in an unsatisfactory termination.

### APPARATUS AND MATERIALS:

- Four Nicopress copper oval sleeves per end termination, and the corresponding crimping tool – either hand or hydraulic
- Sharp knife or cable cutters
- Heavy duty rope thimble

### WORKMANSHIP:

A clean work area and careful workmanship are necessary for proper end fitting terminations.

### PROCEDURE:

1. Slide the four sleeves onto the cable.  
**Note:** Do not use any lubrication.
2. Bend the cable around the heavy duty thimble.
3. Complete the loop, keeping the cable within the thimble groove.
4. Slide the cable end back through the first sleeve.
5. Complete this operation with the remaining sleeves, leaving enough tail beyond the sleeves to allow for sleeve expansion. **Figure 1**
6. Crimp the sleeves perpendicular to the sleeves' axis using the following location sequence; sleeve nearest thimble – crimp first the middle, then top, then bottom of the sleeve. All other sleeves proceeding downward – crimp first the top, then middle, then bottom. Leave a space between sleeves equal to 1/2 the sleeve length.
7. Properly pressed nicopress termination: note that the side creases of the individual nicopresses are in line. Also, the termination is on the same axis as the thimble and does not curve away. **Figure 2**
8. OPTIONAL: Using Polyethylene High Voltage Tape (3/4 inch x 0.030 inch x 30 feet), cover the nicopress termination with four layers of tape, stretching tape 100% as it is being applied. The taped area should cover from one inch above the first nicopress, to one inch past the last nicopress. Fasten the end of the Polyethylene Tape with a black tie wrap.

**NOTE:** End termination efficiency will vary with rope diameter, construction and jacket type. Consult factory for details before implementing this procedure.

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**Figure 1**



**Figure 2**

**CAUTION: Break Strength:** The breaking strength of a rope is the load at which a new rope will break when tested under laboratory conditions. Break strength should not be mistaken for safe working load. **Safe Working Load:** Because of the wide range of rope use, rope condition and the degree of risk of life or property, it is not possible to make a blanket recommendation for safe working load. It is ultimately dependent on the rope user to determine what percentage of break strength is their own safe working load. **Wear:** Ropes wear out with use; the more severe the usage, the greater the wear. It is often not possible to detect wear on a rope by visible signs alone. Therefore, it is recommended that the rope user determine a retirement criteria for ropes in their application. For assistance in developing safe working load and retirement criteria for each application please call or write Phillystran, Inc.

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