

# PHILLYSTRAN PHILLYGRIPS INSTALLATION PROCEDURE

**Step One:** Lay PhillyGrip next to cable on which the grip has to be installed and position the eye of the grip as needed.

*Note: PhillyGrip legs are marked in pairs with 4" and 2" color marking. For Step 2 and 3 use the 2 legs with 4" marking. For Step 4 and 5 use the legs with 2" marking. Always work in pairs.*

**Step Two:** Wrap the first leg around the cable, starting with a wrap of 12 times the cable diameter and decreasing with one cable diameter each wrap. Make a minimum of 10 wraps in total and secure the end of the leg with a clove hitch.

**Step Three:** Wrap the second leg in the opposite direction of the first leg and repeat the procedure in step two. Secure the leg with a clove hitch just beyond the first clove hitch.

*Note: The second leg should have the same length of color marking so that it is the same pair of legs.*

**Step Four:** Wrap the third leg around the cable, over the first two legs, starting with a wrap length of 20 times the cable diameter. Then duplicate the wrap lengths of the first and second tails. Secure the leg with a clove hitch just beyond the other two clove hitches.

**Step Five:** Wrap the fourth and last leg in the opposite direction of leg three and duplicate the procedure in step four. The PhillyGrip is now ready for a temporary installation.

For a permanent installation follow the procedure above and seize the wrapped legs with a nylon braid at the base of the eye and at the end of the tails.

## IMPORTANT:

- If followed carefully the grip's legs will start with a wrap angle which gradually decreases the helix angle at 15% and ends at more than 50 degrees. Ensure at least 10 wraps are used for holding power.
- PhillyGrips are 100% synthetic and care should be taken using the grips on rusty and rough surfaces. This can damage or cut the synthetic legs and reduce holding power and/or life expectancy of the grip.
- Phillygrips can be installed on a variety of cables, all with different friction coefficients. Please contact Phillystran, Inc. for more details.

**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.

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