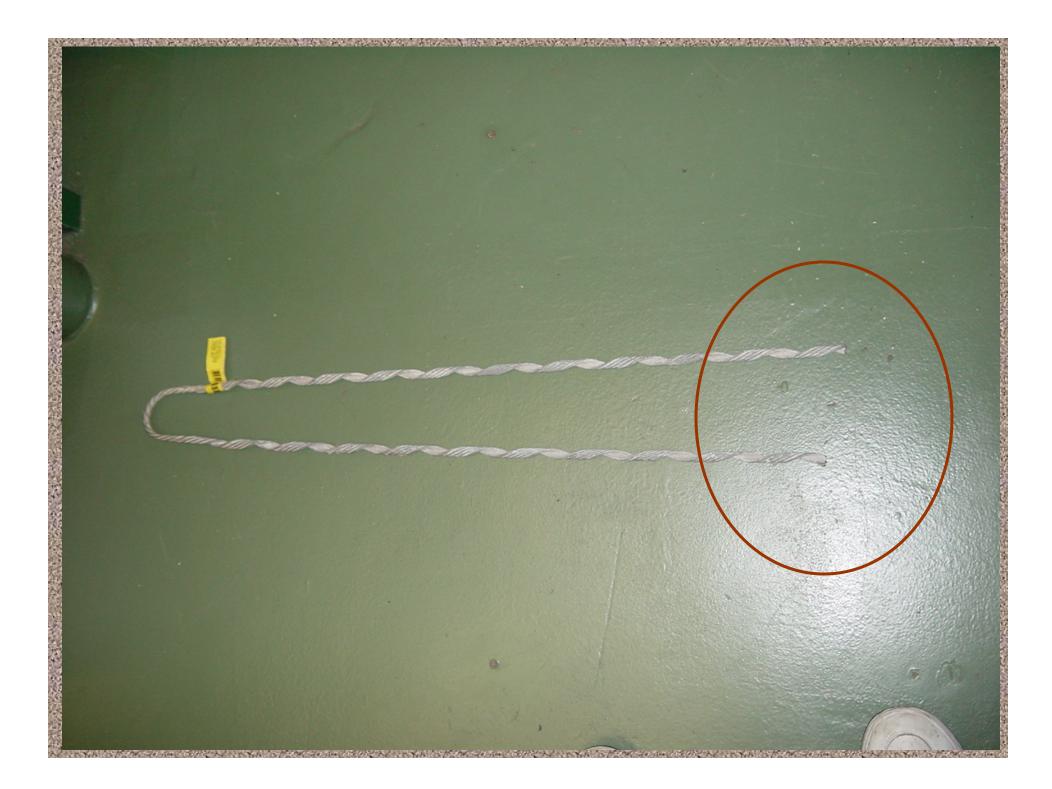
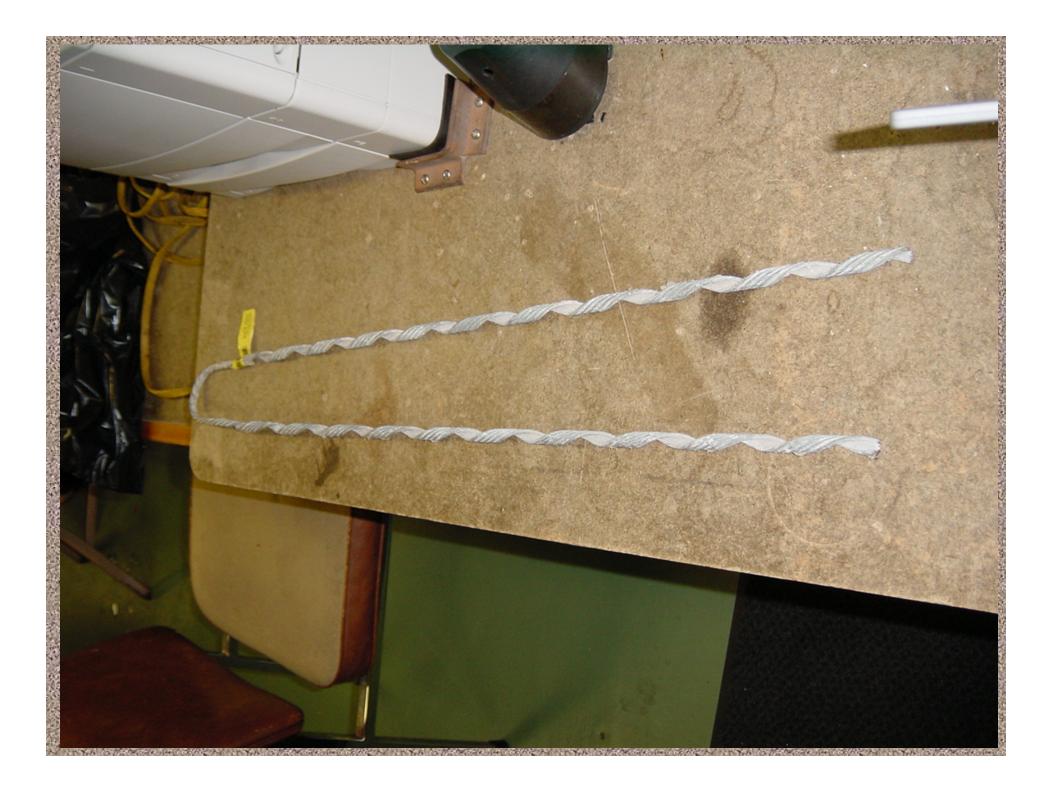
Tips and Tricks for PMI "finger grips" on EM cable

Marc Willis, Oregon State University RVTEC 2007

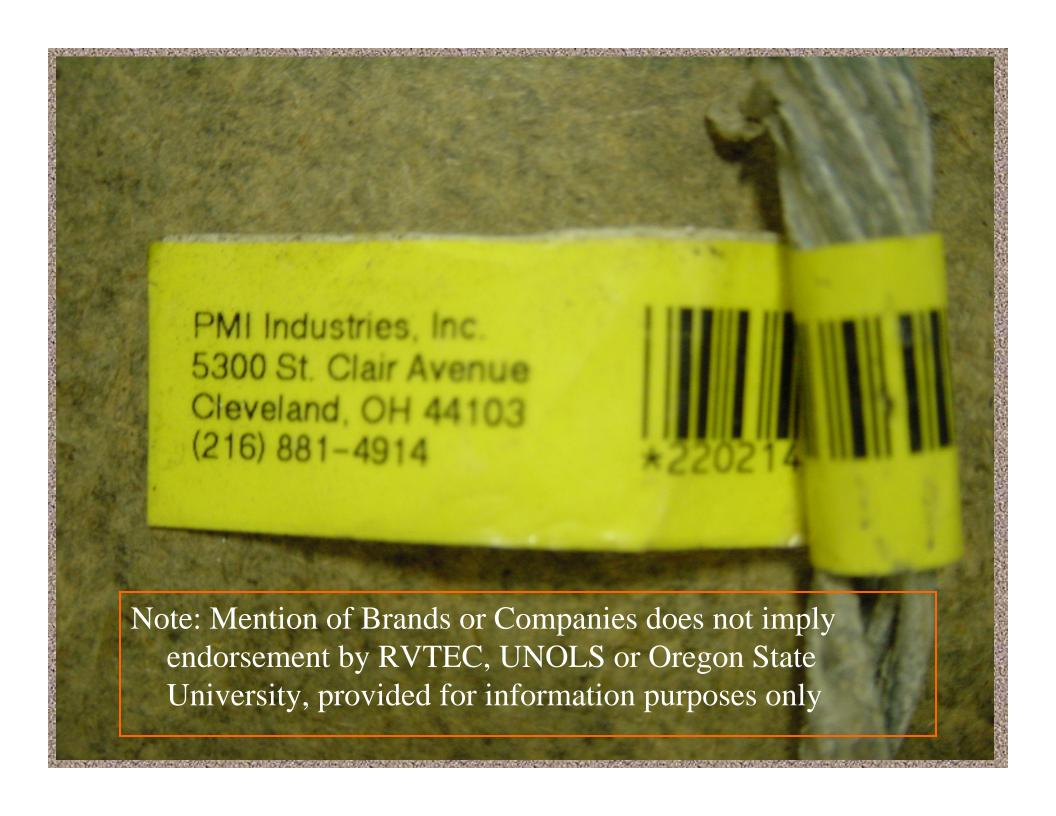


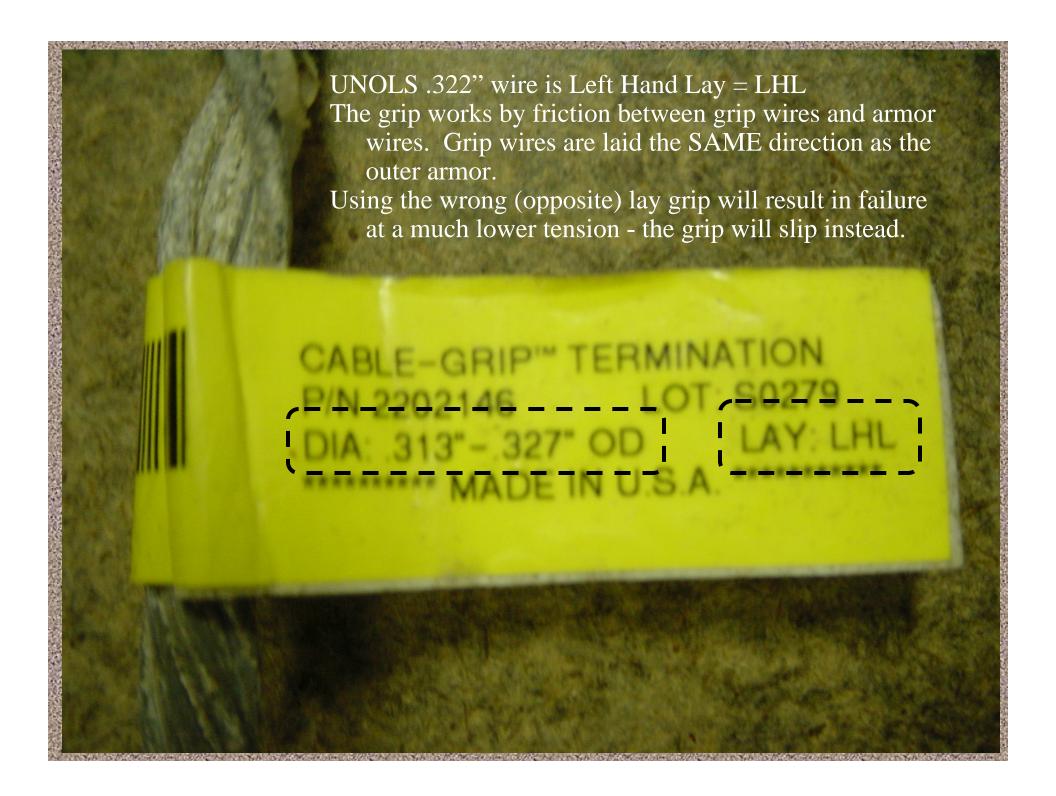


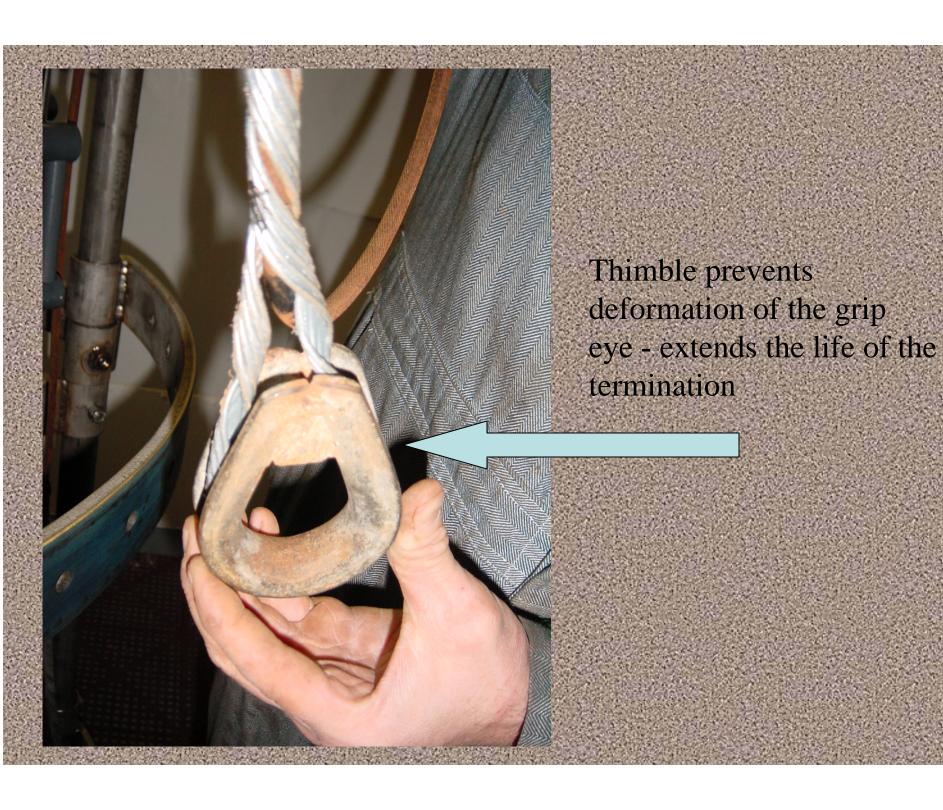


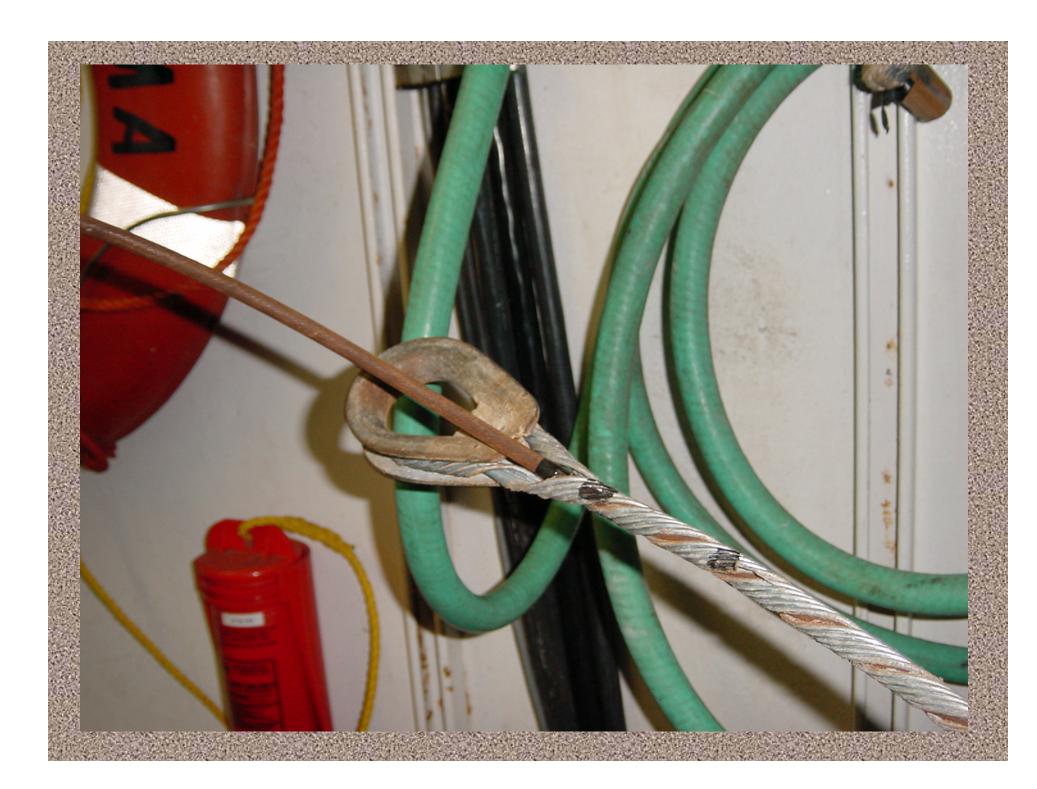


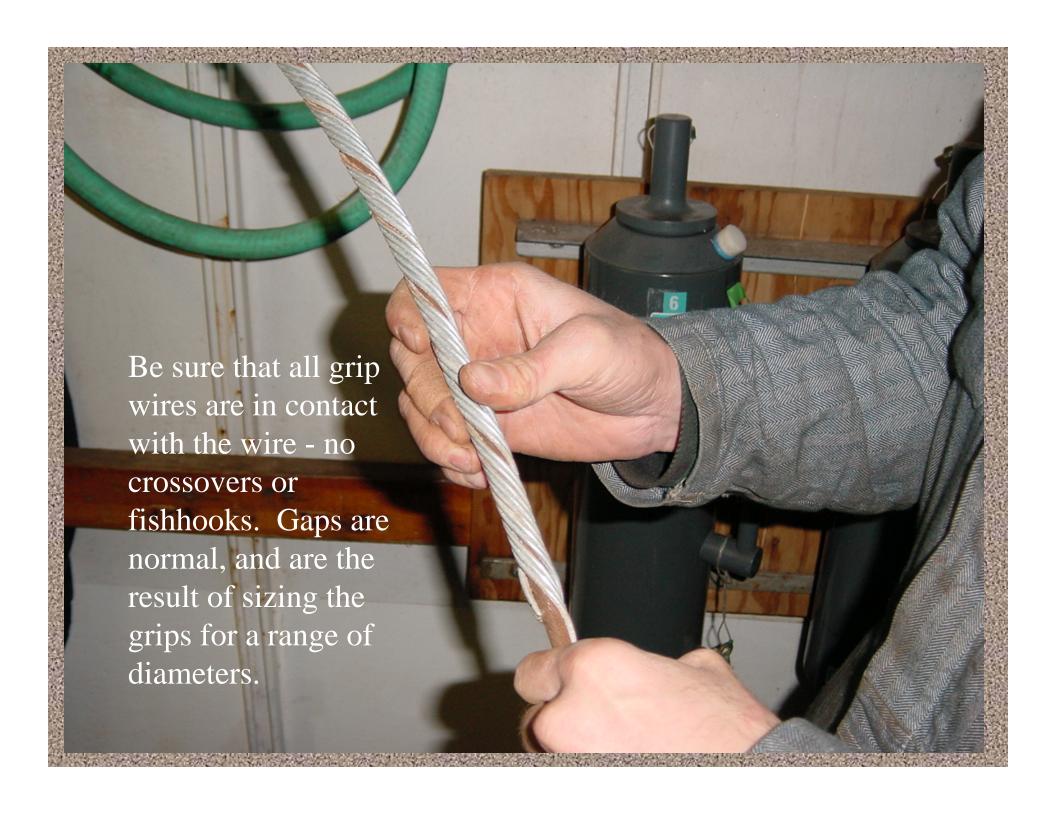


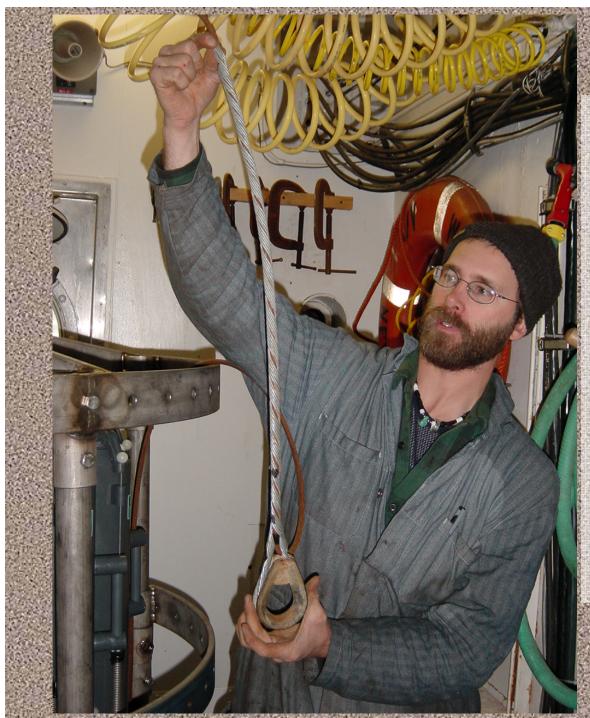












At this point, the grip termination (with or without thimble) has about 90% of the strength of the cable.

The primary failure mode in this state is 'unzipping' from the eye end. We have observed that under high tension, the wire will flip out of the grip turn-byturn, starting at the eye.



To increase termination strength, a 1/2" Crosby cable clamp can be used to secure the eye end of the grip. To prepare for this, wrap several layers of electrical tape at the base of the eye. This provides a base for the cable clamp to grab.

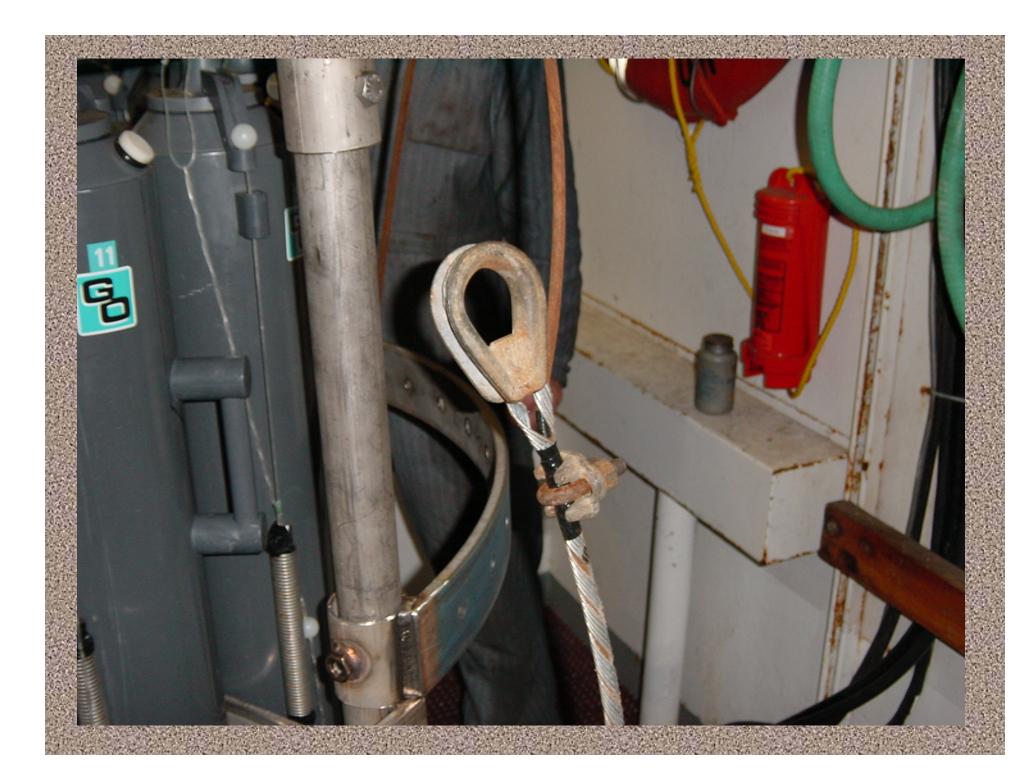
The Crosby clamp is placed over the tape, and tightened enough to stay in place, and prevent unzipping.

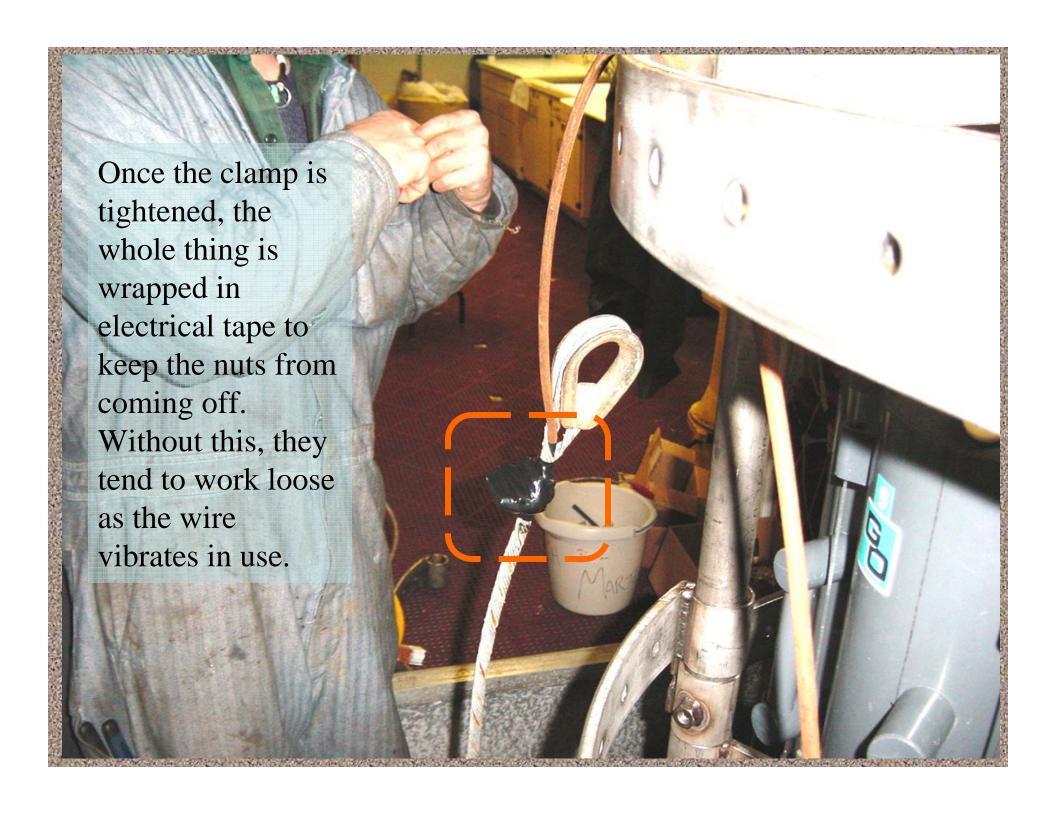
It can be pretty tight, since the cable core is well protected by the armor and the grip wires.

The tape keeps the clamp in place. If tape is not used, the clamp has a tendency to slip metal on metal contact.

{You'll know there's too much tape when you can't get the U-bolt on.}









Finished termination attached to CTD

It's a good idea to add some tape at the upper end of the grip to keep the wires from working loose, and to prevent hand injuries. Bright tape is a good two-block indicator for winch operators.