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1.0 Scope

The following procedure for pulling grip attachment applies to both armored and non-armored cables with a loose tube or central tube cable design (e.g. Unitube, UniRibbon and Microunitube etc..)

Note: Pulling grip may be placed over the outer sheath; however, the grip may pull off prior to reaching the maximum specified pulling load.

2.0 Equipment and Materials Required

1. Pulling grip of the proper size (The cable outer diameter must be within the size range specified for the grip).
2. Sheath knife or cable ring cutter
3. 7" diagonal wire cutter
4. Pliers
5. Vinyl tape
6. Tape measure or ruler
7. Breakaway, Swivel and required hex wrench

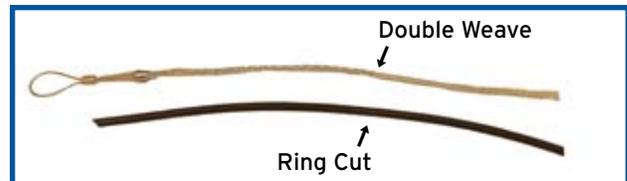
3.0 Quick Reference Checklist

1. Ring cut the outer sheath at a distance of $\frac{3}{4}$ the length of the grip for loose tube and $\frac{1}{2}$ the length of the grip for Central tube cable (this is the point the sheath will be removed to)
2. Insert cable through the grip & out the other end
3. Remove the jacket from the cable end to access the ripcord.
4. Pull the ripcord to the ring cut location
5. Remove sheath(s) including armor and/or water swell tape if applicable
6. For Central Tube designs, cut away the the RSMS
7. Tape strength yarn at end of cable. (Central tube products apply additional tape at ring cut to cover RSMS)
8. Pull cable back into grip and remove slack
9. Apply tape over the outside of pulling grip base to eye (loop end)
10. Attach approved breakaway & swivel

4.0 Procedure

1. Select the cable end to be pulled and verify that the pulling grip is the correct size.
2. Ring cut the outer sheath at a distance of $\frac{3}{4}$ the length of the grip for loose tube and $\frac{1}{2}$ the length of the grip for Central tube cable (this is the point the sheath will be removed to). If the grip being used has a double weave section followed by a single weave section; make sure that enough of the sheath will be removed to ensure that the double weave portion of the grip will not be in contact with the outer sheath.

Note: Use caution not to score or cut the strength yarns when making ring cut.



3. Push the cable through the grip and out the opposite end of the grip through a gap in the wire mesh until the ring cut is exposed. You may have to use a pumping motion to assist the cable through the grip.



4. Expose the ripcord at the end of the cable and pull it down the cable to the ring cut. If handling an armored cable, notch the armored tape at the tip of the ripcord with snips or the diagonal cutter prior to pulling the cord.



Pulling Grip Attachment

Procedure for Draka Loose tube and Central tube cable designs:

5. Peel back and remove the cable outer sheath layers down to the strength yarn. If using central tube cable, cut the strength members with the diagonal cutters at the base of the ring cut.



6. Apply two wraps of vinyl tape around the end of the cable to hold the strength yarn in place.



Note: For central tube designs, it is recommended that two additional wraps of vinyl tape be applied around the base of the ring cut to prevent the strength members from catching the mesh of the grip during installation.



7. Slide the pulling grip back up over the cable end so that the cable core extends about 1/4 to 1/2" beyond the weave section of the grip.



8. Remove any slack from the weave or basket section of the grip and ensure the grip fits tightly around the cable by pulling on the eye of the grip.

9. Starting one inch below the open end of the grip, tightly wrap the entire pulling grip with vinyl tape (base to eye). If two layers of tape are desired, the tape should start just below the cone end of the grip and be wrapped down the grip to a point approximately one inch below the open end (eye to base). Then reverse wrapped back to the cone end of the grip (base to eye). The tape should be kept tight during the taping process, and the final layer of tape should always be applied from the open end up (base to eye) to prevent the tape from snagging when being pulled through a duct.



10. Connect the pulling eye to an approved breakaway and swivel. The grip installation is complete, and the cable is ready to be pulled.

