

# CommScope Fiber Optic Single-Unit Distribution Cable Installation Instructions

---

### Tools Required

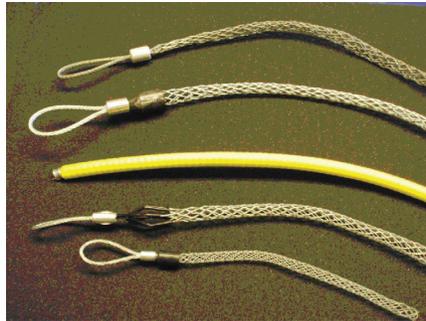
- Safety glasses
- Utility knife
- Measuring tape
- Scissors
- Diagonal cutters
- Gloves
- Marker
- Electrical tape
- Wire mesh grips (for Option #1)
- Pulling eye – ball bearing type
- Appropriately rated Break-Away Swivel



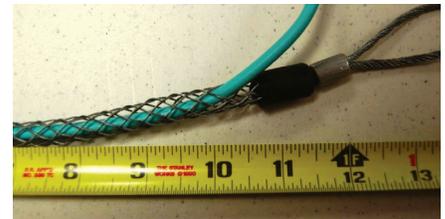
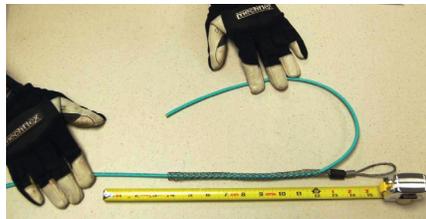
## Option #1: With Wire Mesh Pulling Grips

*Note: Option #1 can be used to pull cable up to the full maximum rated cable load (MRCL) appropriate to the particular cable. Break away swivel rating should be  $\leq$  to the MRCL.*

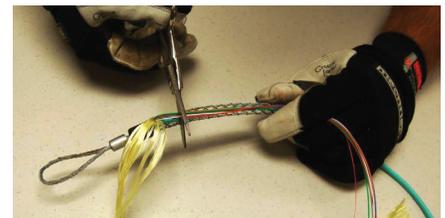
1. Determine the correct size wire mesh pulling grip. Caution: too large a grip will slip on the cable, too small will be very difficult to install.



2. Insert the cable into the wire mesh pulling grip. Bring approximately 12" to 24" (30cm – 60cm) of the cable out of the grip through the mesh as close to the pulling end as possible, or through the "Basket" depending on the pulling grip being used.



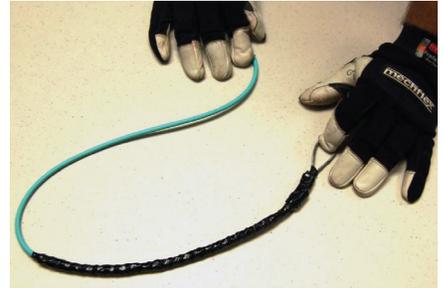
3. Ring cut the cable as close to the mesh grip as possible, remove the jacket to expose the aramid yarn, fibers, and possibly a central strength member (CSM). Using an appropriate cutting device, remove the buffered fibers and, if applicable, the CSM, taking care to leave ALL the aramid yarn intact.



4. Twist the yarn into a manageable bunch and tie it securely to the pulling eye of the mesh grip.



5. Slide the cable back into the mesh grip until the aramid is taught. Wrap the aramid yarn tail around the mesh grip. Using electrical tape, cover the aramid to protect it during the pulling process. Also tape the mesh grip to the cable jacket at the entry point.



6. Attach a properly rated break-away swivel to the pulling eye of the mesh grip. Take caution not to exceed the maximum pulling tension of the fiber cable.

7. After completion of the pull, remove the pulling grip. Measure 48 inches (1.2m) from the end of the cable and cut the cable and discard.



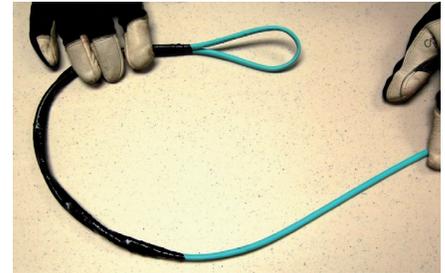
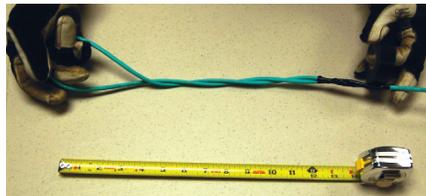
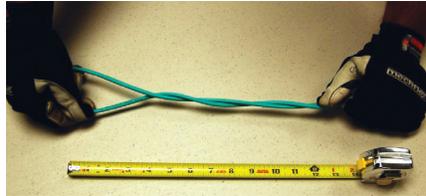
## Option #2: Without Wire Mesh Pulling Grips

*Note: Option #2 should only be used for light duty pulls or rewinding. Using this procedure, cable load should be kept below 100 lbs. (445N) and an appropriately rated break away swivel should be used.*

1. Take approximately 12" to 24" (30cm – 60cm) of the distribution cable and bend it 180° back onto itself.



2. Holding the loop, twist the cable three or four times. Using electrical tape, securely wrap the cable going all the way up to the loop and then all the way back down.



3. Attach a properly rated break-away swivel to the self-made pulling eye. Take caution not to exceed the maximum pulling tension of the fiber cable.

4. After completion of the pull, measure 48 inches (1.2m) from the cable loop and cut the cable and discard.



# COMMSCOPE®

[www.commscope.com](http://www.commscope.com)

Visit our Web site or contact your local CommScope representative for more information.

© 2011 CommScope, Inc. All rights reserved.

All trademarks identified by ® or ™ are registered trademarks or trademarks, respectively, of CommScope, Inc.

This document is for planning purposes only and is not intended to modify or supplement any specifications or warranties relating to CommScope products or services.

07/11