

Outer Sheath and Interlocking Armor Removal from Corning Cable Systems Intrabuilding Cables

1. General

1.1 This document describes the procedure for removing the outer sheath and interlocking armor of Corning Cable Systems Intrabuilding Cables.

1.2 Corning Cable Systems Interlocking Armored Cables are rugged, high performance cables designed for indoor tray applications (Figure 1). Each cable is composed of a standard Corning Cable Systems intrabuilding design surrounded by an interlocking armor. The armor is jacketed with a flame-retardant sheath.

1.3 This issue includes the use of an armor splitting tool.

2. Precautions

2.1 General Precautions



Safety Glasses

WARNING: The wearing of **safety glasses** to protect the eyes from accidental injury is strongly recommended when handling chemicals and cutting fiber. Pieces of glass fiber are very sharp and can easily damage the cornea of the eye.



Safety Gloves

WARNING: The wearing of **safety gloves** to protect your hands from accidental injury when using sharp-bladed tools and armored cable is strongly recommended. Use extreme care when working with severed armor. Dispose of used blades and armor scrap properly.

2.2 Fiber Handling Precautions



WARNING: Cleaved glass fibers are very sharp and can easily pierce the skin. Do not let cut pieces of fiber stick to your clothing or drop in the work area where they can cause injury later. Use tweezers to pick up cut or broken pieces of the glass fibers and place them on a loop of tape kept for that purpose alone. Good housekeeping is very important.

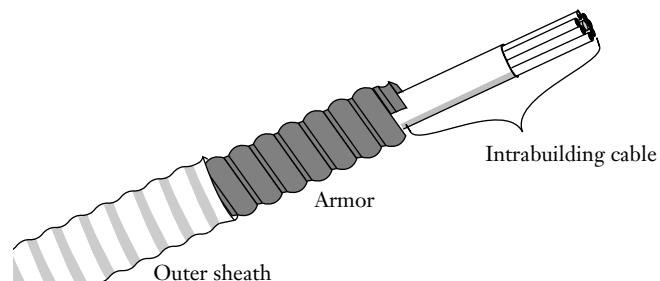


Figure 1

2.3 Cable Handling Precautions



CAUTION: Fiber optic cables are sensitive to excessive pulling, bending and crushing forces. Excessive bending will cause kinking which may damage the fibers inside – the cable may have to be replaced.

3. Tools and Materials

3.1 The following tools and materials are required for this procedure:

- Scissors *
- Utility knife with hook blade *
- Vinyl tape *
- Armor splitting tool
- Tape measure *
- Alligator clip or your company's standard grounding hardware

* Items available in the M67-003 Fusion Splicer Tool Kit

4. Sheath Removal

4.1 Refer to the documentation with the product you are installing to obtain the proper sheath removal.

Use the tape measure to the proper length and mark this length with a wrap of tape (Figure 2).

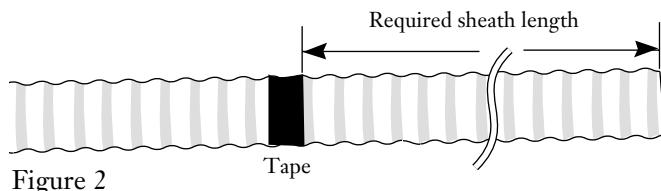


Figure 2

4.2 Using the hook blade knife, make a ring cut through the outer sheath at the tape mark (Figure 3).

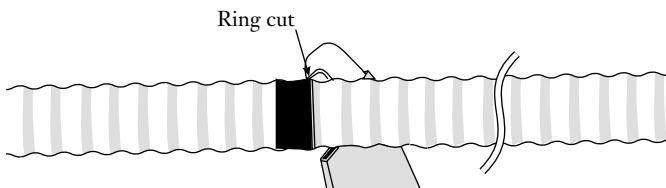


Figure 3

4.3 Make a second ring cut in the outer sheath 10 cm (4 in) past the tape mark (Figure 4).

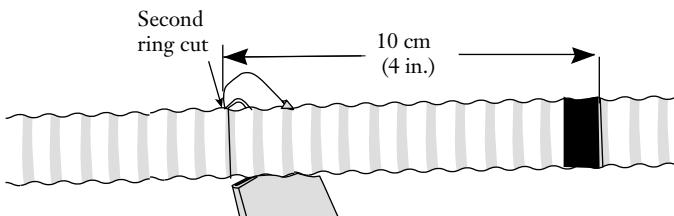


Figure 4

4.4 Remove the tape mark.

4.5 Using the hook blade, slit the 10 cm (4 in) length of outer sheath between the ring cuts (Figure 5).

Remove this section of sheath.

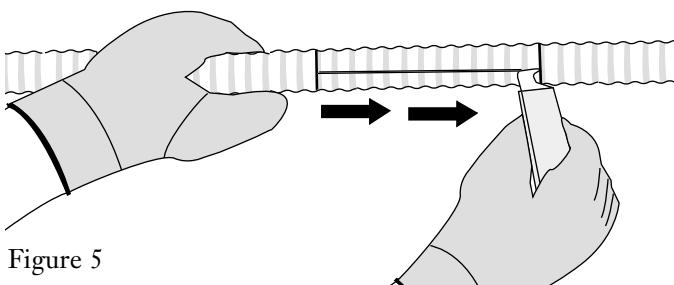


Figure 5

4.6 Place the exposed section of armor in the cable guide of the armor splitting tool (Figure 6). Tighten the tool's thumb screw a to secure the cable in the tool (Figure 6).

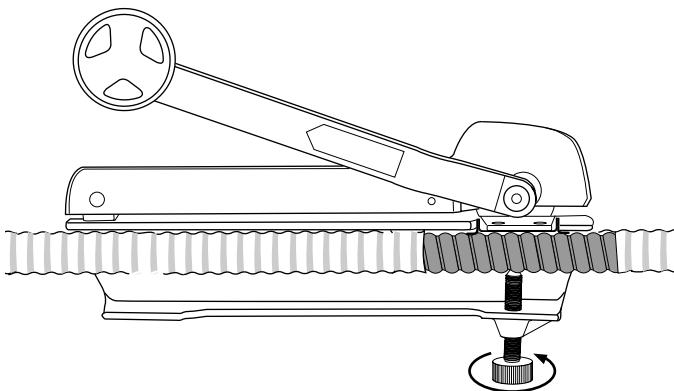


Figure 6

4.7 Holding the tool near the cutting head, squeeze the tool to bring the cutting blade against the armor, and rotate the crank handle (Figure 7). When the force required to rotate the crank handle suddenly decreases, the cut is complete.

Back off the thumbscrew and remove the cable from the tool.

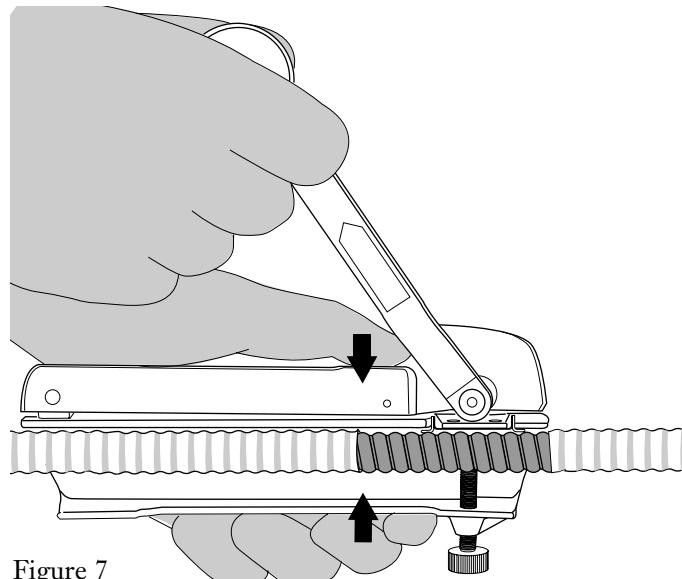


Figure 7



CAUTION: There will be a sharp edge where the interlocking armor was cut. To minimize the chance of injury, cover the exposed edge with a wrap of vinyl tape.

4.8 Holding the cable on both sides of the cut, twist the cable to separate the armor. Remove the armor and outer sheath from the free end of the cable by sliding it off. (Figure 8).

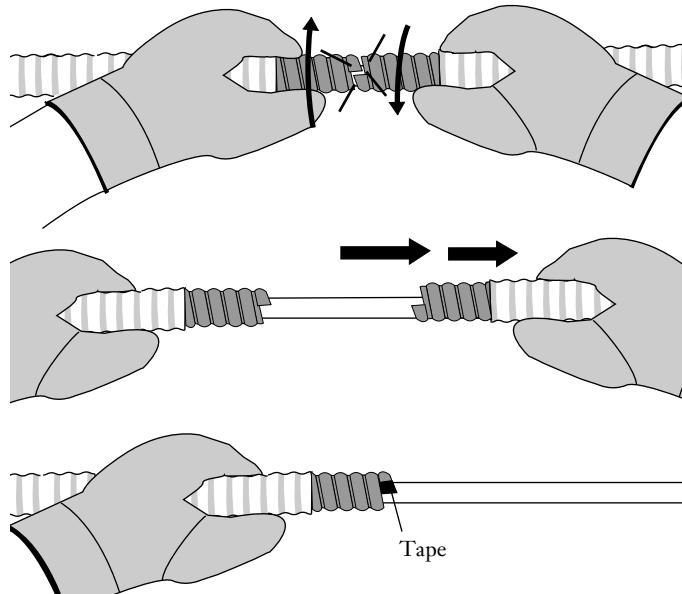


Figure 8

4.9 Ground the armor per your company's standard procedures. To ground the cable with an alligator clip:

- Carefully pry up the armor so that the base plate of the grounding clamp can be slid under the armor.
- Slide the base plate under the armor. Be careful not to damage the intrabuilding cable (Figure 9).

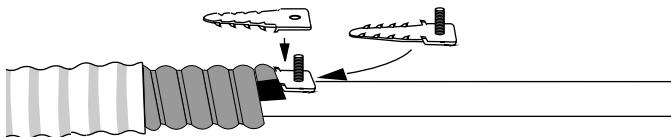


Figure 9

- If necessary, slit the outer sheath to accommodate the top plate. Place the top plate over the base plate and tighten it down with its lock nut (Figure 10). A few light taps on the top plate may help seat the teeth of the clamp.

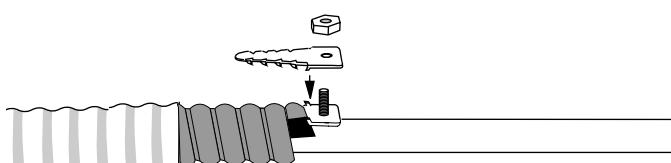


Figure 10

- Place the grounding braid on top of the lock nut and secure with a second lock nut.

- Cover the grounding clamp and split portion of the sheath with vinyl tape (Figure 11).

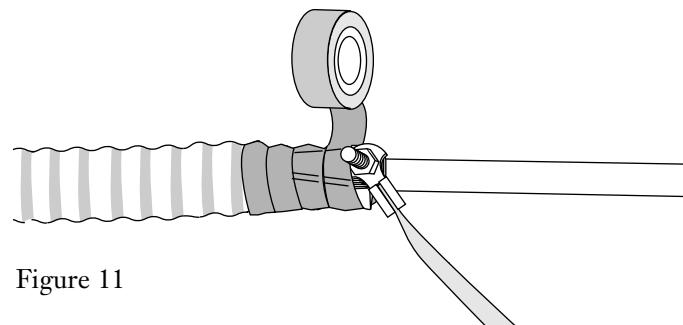


Figure 11

5. Inner Sheath Removal and Fiber Access

5.1 For inner sheath removal and fiber access, refer to the Corning Cable Systems SRP for the appropriate intra-building cable:

- SRP-004-024, *Sheath Removal Procedure for Single Layer MIC® Cables*.
- SRP-004-025, *Sheath Removal Procedure for FREEDM ONE™ Cables*.
- SRP-004-030, *Sheath Removal Procedure for Unitized MIC® Cables*.
- SRP-004-071, *Sheath Removal of Armored and Non-Armored FREEDM® Riser-rated Fiber Optic Cables*
- SRP-004-073, *Sheath Removal of Corning Cable Systems Ribbon Riser and Ribbon Plenum Cables*
- SRP-004-083, *Sheath Removal Procedure for FREEDM®/ LST Cables*

*Special Note:
Fiber Optic
Training
Program*



Corning Cable Systems offers comprehensive, integrated training programs. Courses are structured for: Telephony, CATV, LAN, Intelligent Transportation Systems and Power Utilities.

For information on Engineering Services Training call: 800-743-2671.

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