

## ARMOR-TEK™ Cable Installation Guidelines

### Tools Required:

- Box Cutter with Hook Blades
- Roto-Split Tool (Model RF-120B), [www.seatekco.com](http://www.seatekco.com), or similar product
- Kellem's Grip, see Table 1 for grip selection
- Kevlar shears and a Coaxial Stripper
- Diagonal Cutter and Narrow Nose Pliers
- Friction Tape and Vinyl Electrical Tape
- Permanent Marker

1. Select the appropriate pulling grip, according to the cables outer diameter using Table 1 as a reference. Slide the grip over and past the end of the cable leaving 48 inches of cable beyond the grip.

Cable Diameter		Kellems P/N
inches	mm	
0.10 - 0.22	2.5 - 5.6	033291193
0.22 - 0.35	5.3 - 9.0	033291194
0.36 - 0.48	9.1 - 12.2	033291195
0.49 - 0.61	12.3 - 15.5	033291196
0.62 - 0.73	15.6 - 18.5	033291197
0.74 - 0.87	18.6 - 22.1	033291198
0.88 - 1.00	22.2 - 25.4	033291199

2. Using the box cutter, cut away the outer sheath of the cable by the amount suggested in Table 2 (Column 1). This length is based upon the length of the mesh of the pulling grip. Place a mark around the exposed armor at a distance specified under Column 2 (measured from the uncut outer cable sheath).

Mesh Length		Column 1		Column 2		Column 3	
in.	cm	in.	cm	in.	cm	in.	cm
10	25	12	31	6	15	6	15
14	36	16	41	7	18	9	23
19	48	21	53	8	20	13	33
21	53	23	59	10	25	13	33
28	71	30	76	12	30	18	46

3. Insert the cable so that the mark applied to the exposed armor aligns with the holding pin of the Roto-Split tool. Cut the interlocking armor per the tool instructions and remove. See Figure 1.

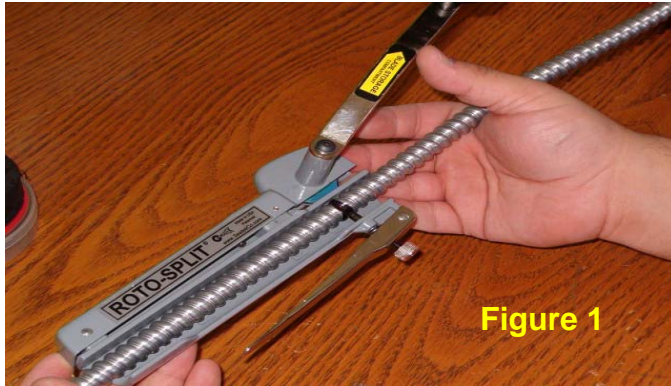


Figure 1

4. If a rip cord is provided with the cable, use the box cutter to carefully ring cut the optical cable sheath one inch from the cable end. Remove the sheath. Locate the rip cord and carefully nick the cable sheath next to the rip cord. Using the narrow neck pliers, wrap the rip cord and cut the sheath until reaching  $\frac{1}{2}$  inch from the armor. Using the shears, remove the sheath to this point. Secure the strength yarns of the cable at the tip using the friction tape. If a rip cord is not present, use the coaxial stripper to ring cut the cable sheath every six inches until reaching within  $\frac{1}{2}$ " of the exposed armor. Remove these cable sheath segments. See Figure 2.
5. Starting at the beginning of the exposed armor, wrap overlapping layers of the friction tape tightly as you proceed towards the tip of the cable. ENSURE THE EXPOSED ARMOR AND THE CABLE STRENGTH YARNS ARE TIGHTLY

COUPLED TO THE FRICTION TAPE.  
See Figure 3.

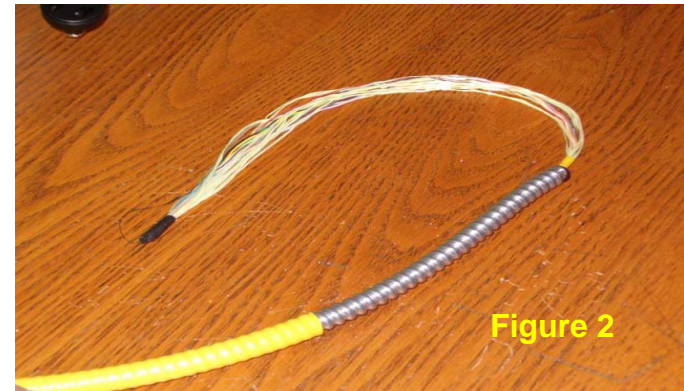


Figure 2

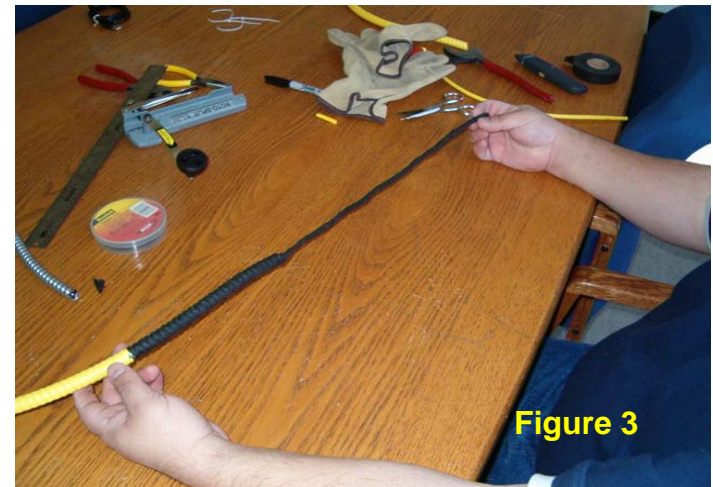


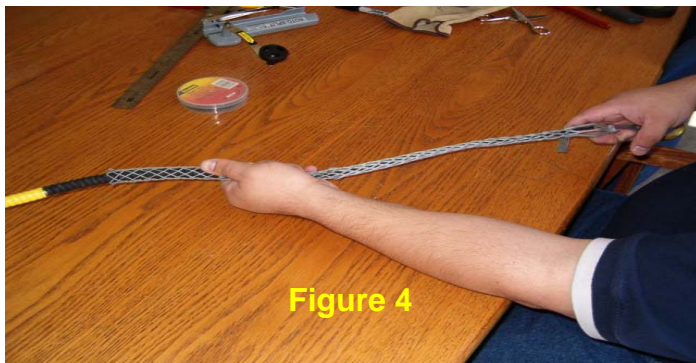
Figure 3

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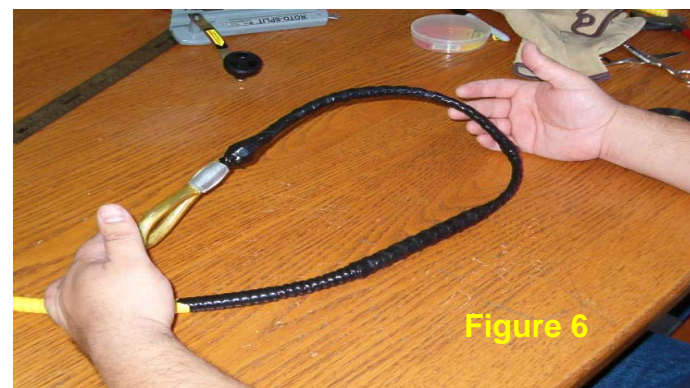
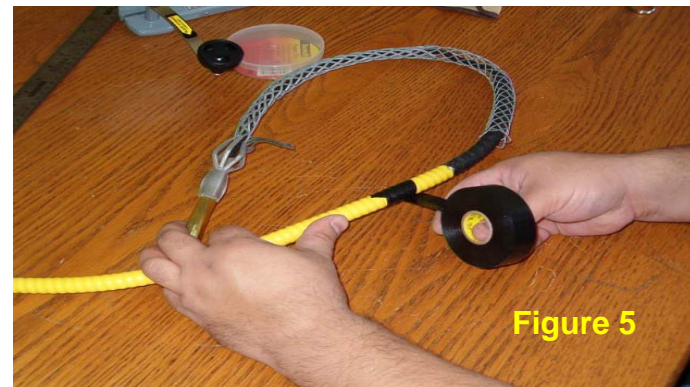
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6. Slide the Kellems grip towards the tip of the cable until the tip of the cable lies centered within the wire mesh basket. Holding the cable/grip from this point, smooth the grip mesh down tightly over the cable towards the body of the cable. See Figure 4.



7. Beginning two inches from the exposed armor (over the outer cable sheath), wrap the vinyl electrical tape TIGHTLY over the cable sheath/pulling grip, moving towards the grip pulling eye (see Figure 5). Properly applied vinyl tape should show the imprint of the wire mesh ribs, which ensures tight coupling of the grip to the cable strength elements. The cable is now ready for installation. See Figure 6



8. Ensure that the tensile load applied to the cable is within the manufacturers recommendations for that product. Ensure the correct size pulling grip is used. Failure to do so may lead to improper coupling of the grip to the cable strength elements and may create the potential for cable damage.

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