

Installation Instructions

15kV Ranger 2 Cable Terminator

For Indoor Applications ONLY

Concentric and Jacketed Concentric Neutral Cables

Contents: Silicone Rubber Termination, Lubricant, 2-Gloves, Instruction Sheets.

Optional Contents: Connector, Cable Support Bracket.

WARNING: 15kV INDOOR KIT DOES NOT RESTORE A MOISTURE RESISTANT SEAL TO CABLE TERMINATION. If termination must be moisture resistant, indoor/outdoor kits must be used.

DANGER

All apparatus must be de-energized during installation or removal of part(s).

All apparatus must be installed and operated in accordance with individual user, local, and national work rules. These instructions do not attempt to provide for every possible contingency.

Do not touch or move energized products.

Excess distortion of the assembled product may result in its failure.

Inspect parts for damage, rating and compatibility with mating parts.

This product should be installed only by competent personnel trained in good safety practices involving high voltage electrical equipment. These instructions are not intended as a substitute for adequate training or experience in such safety practices.

Failure to follow these instructions will result in damage to the product and serious or fatal injury.

If this product is supplied with a protective shipping cover(s), remove this shipping cover(s) and replace with the appropriate HV insulated cap(s) or connector(s) before submerging or energizing the circuit.

FOR MORE INFORMATION ON PARTS, INSTALLATION RATINGS AND COMPATIBILITY, CALL THE NEAREST ELASTIMOLD OFFICE.

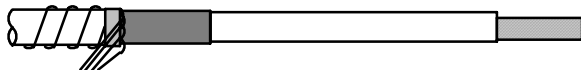
IMPORTANT

1. Check contents of package to ensure they are complete and undamaged.
2. Check all components to ensure proper fit with cable and/or mating products.
3. Read entire installation instructions before starting.
4. Have all required tools at hand and maintain cleanliness throughout the procedure.

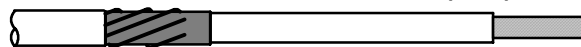
Termination Selection Chart

Catalog Number	Dia. Over Insulation Inches (mm)	Dia. Over Jacket Inches (mm)
R2IT15J1	0.64-1.12 (15-30)	1.35 (35) MAX
R2IT15J2	0.84-1.38 (20-35)	1.72 (45) MAX
R2IT15J4	1.30-2.10 (35-55)	2.55 (65) MAX

Concentric Neutral



Jacketed Concentric Neutral (JCN)



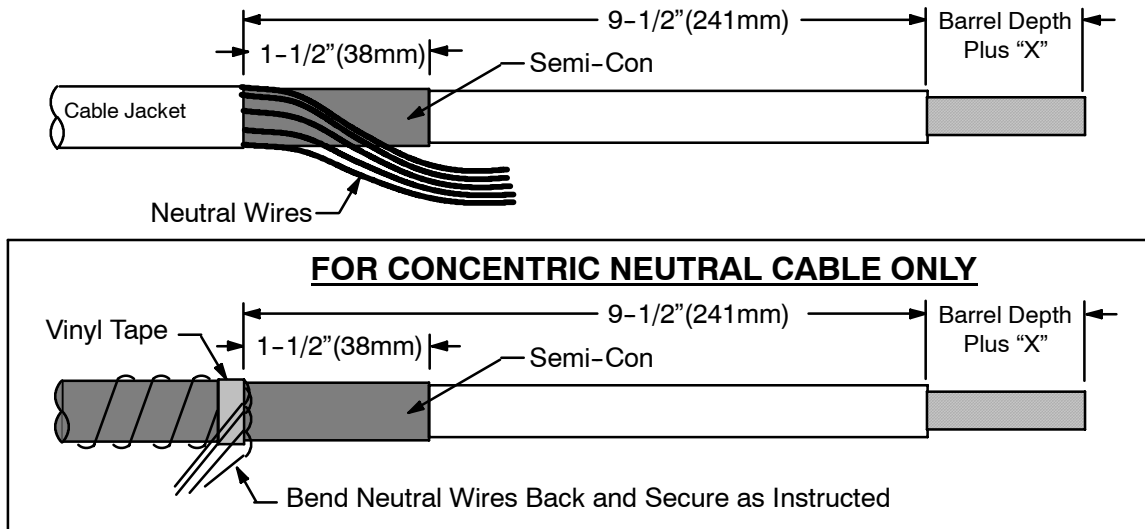
Cable Support Bracket (Optional)

Catalog Number	Overall Cable Diameter	Bracket Style
B1	.800-1.250 20 - 32mm	Single
B2	1.100-1.500 28 - 38mm	Single
B3	1.450-1.950 37 - 50mm	Double

STEP 1 Prepare Cable

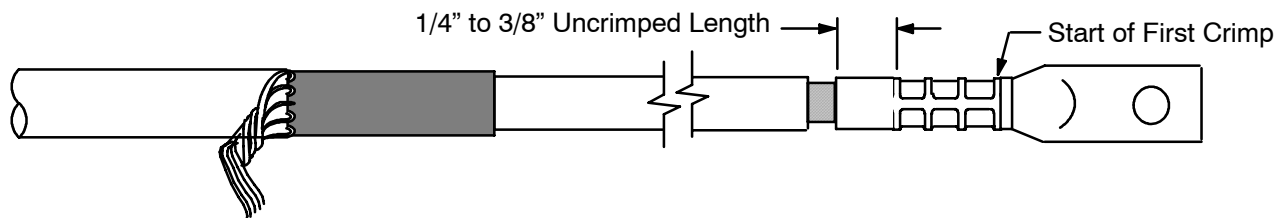
1. Check to be sure cable size fits within kit range as shown in the Termination Selection Chart, Page 1.
2. Train cable into position and cut to length required for installation. Allow sufficient neutral wire length for grounding connection.
3. Prepare cable using dimensions shown. **Be sure to allow for depth of terminal lug. Provide additional exposed conductor distance to account for growth during crimping of ALUMINUM lugs or connectors as follows:**

Cable Size	#2-350	400-650	750-1000
"X"	1/4" (6mm)	1/2" (13mm)	3/4" (19mm)



STEP 2 Install Lug or Connector

1. The termination assemblies are designed for use with Elastimold copper or aluminum lugs. If other lugs are used and will not fit through the termination core, clean the insulation and slide termination on cable before installing lug. **Do not remove core at this time.**
2. Position connector/lug and crimp according to manufacturer's directions. Do not crimp the last 1/4" to 3/8" of the connector. See below. Remove excess oxide inhibitor and sharp crimp flashings following crimping.

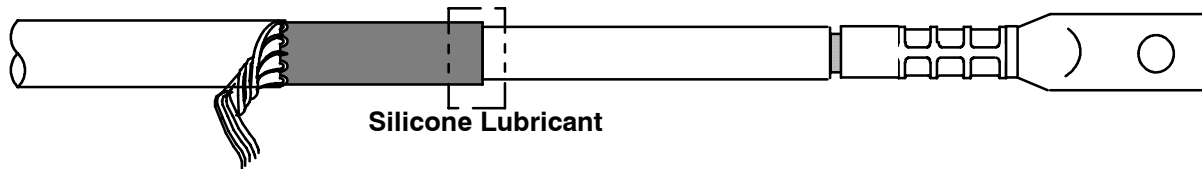


STEP 3 Clean Cable Insulation and Lug Barrel Using Standard Practice

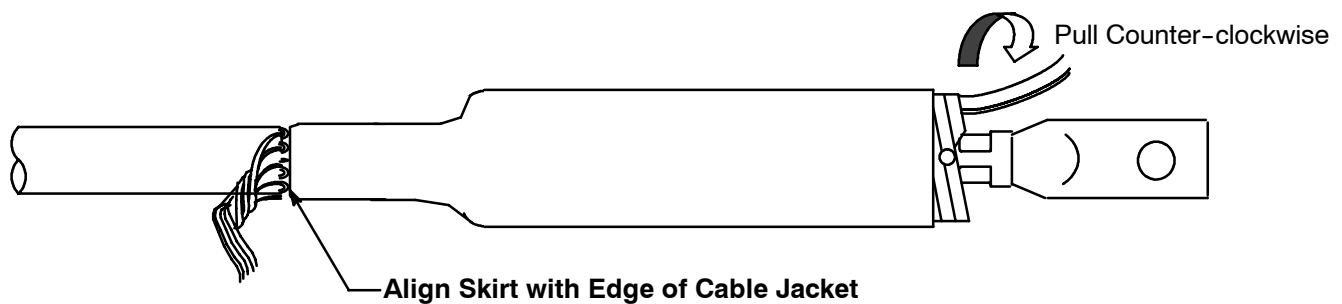
1. Wipe the cable insulation with an approved solvent. **Do not allow solvent to touch semi-con insulation shield.**
2. If abrasive must be used:
 - a. Use on insulation only. **Do not use abrasive on semi-con insulation shield.**
 - b. Use only aluminum oxide abrasive; grit 120 or finer.
 - c. Be careful not to reduce the cable insulation diameter below that allowed by the kit.

STEP 4 Install Termination

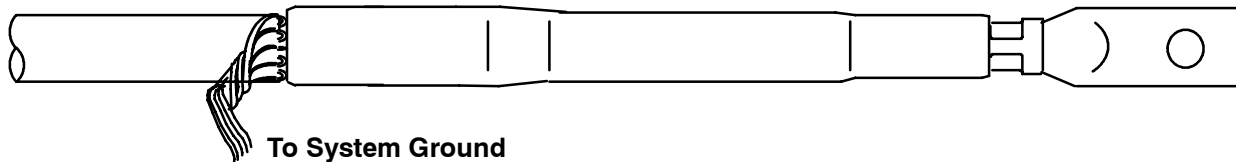
1. Cover the edge of the semi-con insulation shield with a liberal coating of silicone grease. **On this product the silicone grease does not serve as a lubricant. It must be used to fill the step at the semi-con cut off.**



2. Slide the terminator body onto the cable, **align terminator with edge of cable jacket** as shown below. carefully begin to remove core rotating the lead counter clockwise as you pull. Recheck terminator position and continue to remove core. **Do not push or pull on terminator assembly while removing core.**



3. Twist concentric neutral wires together and connect to system ground.



Thomas & Betts

8155 T&B Boulevard, Memphis, Tennessee 38125
(800) 888-0211 Fax: (800) 888-0690