



# Product Installation Guide

## 1/C Tap splice, 1 kV

### Product General Instructions:

#### Installation Product Recommendations:

- Standard PVC electricians tape
- Cable cleaning products; clean lint-free cloth, **nonconductive** #120 grit or finer, abrasive cloth and cleaning solvent
- Branch or tap compression connectors, as required and installation tools/dies approved for these connectors
- Cable preparation tools (not supplied)
- Torch

**Safety Instructions:** . . . **WARNING** . . . . **WARNING** . . . . **WARNING** . . . . **WARNING** . . . .

Follow all safety procedures to insure that any electrical circuits to be worked on are de-energized, and that no fire/explosion hazards exist before starting work. Check all fittings on the torch, hose and tank assembly for

leaks. Provide adequate ventilation when working in confined areas. The flame consumes oxygen; good ventilation is necessary. Always remove solvent and used cloths from confined areas when not using them.

### Torch Recommendations:

Install cable accessories with a clean-burning torch i.e. a propane torch with a soft flame that does not distribute carbon particles on the products when installing. If the flame is too intense, shrinking will be difficult. The clean-burning torch used, should be adjusted to provide a soft bushy flame approximately 12 inches in overall length with a 3-4 inch yellow tip.

### Shrinking Instructions:

- Apply the yellow part of the flame only, when shrinking. The idea is to create an oven effect around the component being shrunk. This is accomplished by using a side-to-side motion much like spray painting. When spraying paint, runs will form if the spray is held still in one area for too long. With the torch, scorching occurs when the torch is held in one place for too long. In general, shrink either from the center out, or from one end to the opposite end. Always shrink the component down tight onto the underlying component or cable before moving on to the next section. Proper installation exhibits: uniform wall thickness, conformance to underlying component or shape, smooth surface i.e. no flat spots or ridges that can be seen or felt, and visible adhesive flow for coated components.

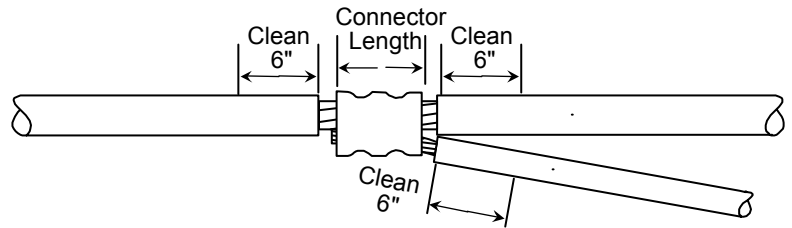
### Product Selection Confirmation

Check kit selection to insure that you are installing the proper kit on the cable(s) to be terminated. If using the termination on the smallest or largest conductor size, compare the actual cable dimensions to those of the kit.

Voltage Class	Kit Part No.	Conductor Size Range Run	Tap	Connector Length maximum	Installed (sleeve) Length
600 V-1 kV	67016	# 8-2 AWG	#10-2 AWG	2" (51mm)	6" (152mm)
	67017	#2-4/0 AWG	#10-4/0 AWG	4" (102mm)	8" (203mm)
	67018	4/0-500 kcmil	#2-500 kcmil	6" (152mm)	10" (254mm)

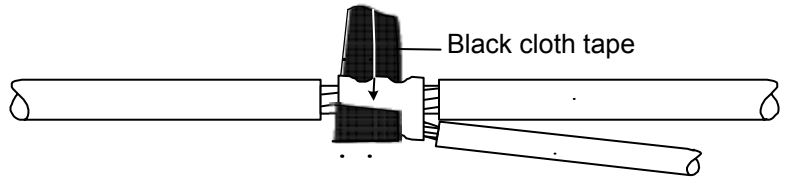
## CABLE PREPARATION

1. Remove cable insulation per the connector requirements. Install and debur the connector, and clean all dirt, pulling compound and connector compound from the cable surface for six inches (6").

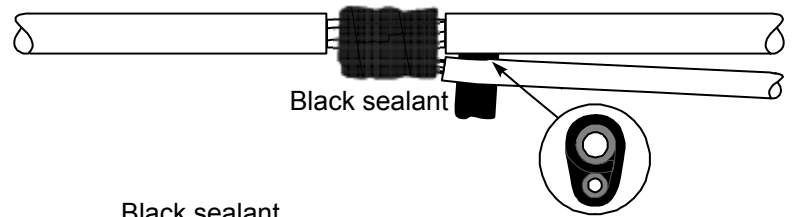


## INSTALLATION

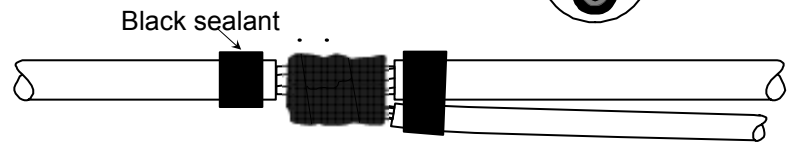
2. Apply one layer of the cloth tape provided, to cover the connector.



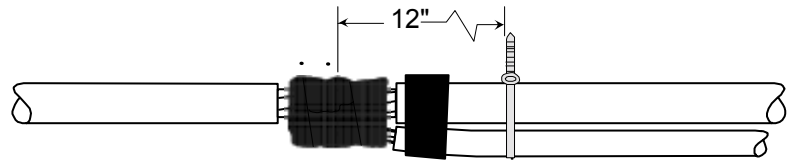
3. Remove the release paper from one side of the black sealant strip. Insert one end of the strip between the run cable and the tap cable as close to the connector as practical. Make one complete wrap around the cables.



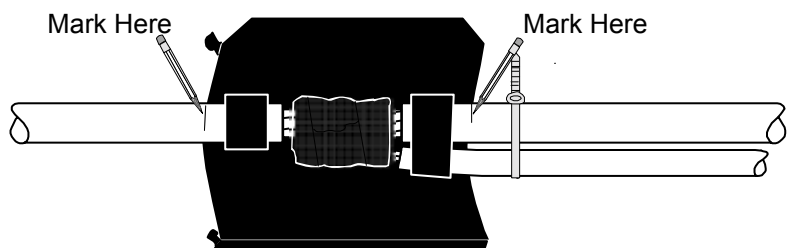
4. Apply one complete wrap of the black sealant strip around the run cable as close to the connector as practical.



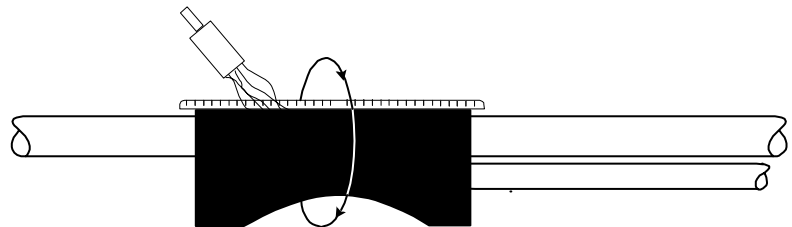
5. Secure the run cable to the tap cable with the cable tie provided, approximately 12" from the center of the connection.



6. Using the wraparound sleeve as a guide, mark the run cable at the edges of the sleeve. Remove the release paper from the inside of the sleeve and center the sleeve between the marks. Connect sleeve by sliding the metal channel over the rails to form a tube. The channel must extend beyond the rails.



7. Preheat the metal channel along its length. Begin shrinking the sleeve in the center. With a brushing motion, paint the flame all of the way around the sleeve. After the center portion is shrunk, work the flame around the sleeve working toward one end; then the other. Post-heat the sleeve along the channel area and around the sleeve as necessary until the sleeve conforms to the underlying cable.



8. Allow the sleeve to cool before moving or back-filling. Channel is usually left in place, but it can be removed. To remove the channel from a cool sleeve lift the channel and cut along the underside of the channel using the channel for a guide.

