Installation Guide

Southwire VFD Cable Shield Termination Kit.

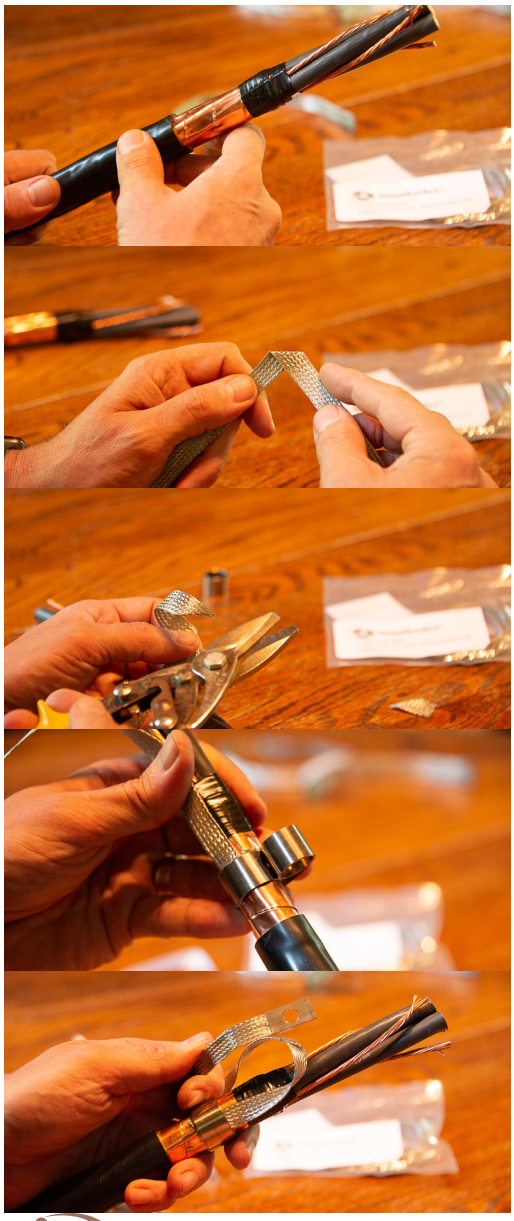
Southwire's VFD cable termination kit allows for easy termination of a copper tape or copper braid shield for cable installed in conduit or installed with a non-EMC cable gland.

Before installing, verify the contents of the kit:

- One constant force spring
- One flexible tinned copper braid with lug attached on one end
- One length of copper foil adhesive tape

Each end of the cable should be properly terminated in the following manner:

1. Cable Preparation
   - Cut the cable jacket back to expose the overall copper tape or braid shield. Make the cut near the cable entry point.
   - Cut the cable shield approximately two inches past the jacket cutback.
   - Use a cable cleaning wipe to remove any residue from the shield.
   - If the shield wants to unravel, use a piece of the Copper Adhesive Tape to secure it in place.
2. Attach the Tinned Copper Braid to the shield
   - Fold the Tinned Copper Braid over itself to form a 45° angel. The fold should be performed such that bare end of the braid is long enough to be wrapped around the cable shield exactly once.
   - Wrap the braid around the cable shield and hold it in place
   - Cut the bare end of the braid back at a 45° angle allowing it to fit against the 45° bend.
   - Secure the braid wrap with the Constant Force Spring. Use a piece of the Copper Adhesive Tape to hold the braid in place if necessary.
   - Wrap a section of the Electrical or Copper Adhesive tape around the spring to hold it in place
3. Prepare the Enclosure
   - The lug on the Tinned Cooper Braid should be attached to the enclosure both at the drive and at the motor.
   - Determine where the lug will be placed inside the enclosure. Clean the enclosure area to ensure good electrical contact. Sand the area the enclosure to expose bare metal.
   - Attach the lug with a nut and bolt.
   - Note the braid should not be connected to the ground terminal. Only the housing chassis.
4. Complete the cable termination
   - Terminate the phase conductor to the drive output terminals or motor leads.
   - Attach the cable ground wires to the ground terminal.



READ THIS IMPORTANT INFORMATION PRIOR TO USING THIS KIT:
This termination kit is designed to provide a low impedance at high frequency termination as recommended by many drive manufacturers. However, **use of this kit does not guarantee that the system will be free of any system issues. This kit is intended for use only by licensed electricians and trained electrical professionals using currently accepted professional techniques, equipment, and practices.** This guide discusses recommended practices for use of this kit, but if you require more detailed information, please contact your local Southwire sales representative.

Southwire specifically disclaims any warranty of any kind, either expressed or implied, in connection with use of this kit, including, but not limited to, the warranties of merchantability and fitness for a particular purpose. Additionally, Southwire and its affiliates shall not be liable for any direct, indirect, consequential, or incidental damages arising out of the use of the kit, even if Southwire has been advised of the possibility of such damages or claim.

Southwire®
www.southwire.com

3000
12/05/2018