



# UF Splice Kit

## Underground Feeder Cable Splice Kit

### Data Sheet

#### Product Description:

3M™ U F Splice Kit is designed to provide a reliable, moisture-proof electrical connection for Type UF-B cable rated for 600 volts ranging from #14/3 without ground wire up to #8/3 with ground wire.

3M U F Splice Kit is offered in two versions:

**Standard Kit** includes a 1.8” length terminal connector; 8” length of heavy wall, adhesive lined heat shrink tube.

**Stretcher Kit** offers a 11.5” length terminal connector; 20” length of heavy wall, adhesive lined heat shrink tube.

#### Product Features:

- Reliable and proven
- UL Listed for direct burial, submersible and rain-tight applications
- Fast and easy installation
- Heavy wall tubing provides excellent puncture/abrasion resistance
- Straight forward U F Terminal Connector design
- Heavy wall tubing provides high level of moisture protection

#### Applications:

Repair of underground feeder-B cables rated for 600 volts, ranging from size #14/3 without ground wire up to #8/3 with ground wire. In cases of dig-in repair or extensions, the 3M U F Splice Kit, Standard or Stretcher versions, will produce a direct burial connection that is insulated and moisture proof.

**Application Temperature**..... 0° F to 120° F (-18° C to 49° C)

**Operation Temperature** ..... -67° F to 230° F (-55° C to 110° C)

#### Engineering Specification:

The 3M U F Splice Kit(s) Standard of Stretcher shall splice and effectively moisture seal U F-B cables for direct burial. When assembled per instructions, the 3M U F Splice provides a strong, environmental resistant splice. UL Listed per UL 486 D for use in direct burial locations or below grade. UL Listed “Submersible” and “Raintight” for use in damp or wet locations. UL File #E102356.

#### Performance Tests:

3M U F Splice Kits, “Standard” or “Stretcher,” have been submitted to Underwriters Laboratories Inc. for conformance testing to UL Test Standard 486 D and have passed all requirements of this specification. The U F Terminal connector has also passed requirements of UL Test Standard 486 C.

#### Shelf Life:

3M U F Splice Kit, Standard or Stretcher, are not effected by normal storage conditions, 65° F to 95° F (18° C to 35° C) for up to five years. Normal storage and stock rotation are recommended.

## Availability:

3M U F Splice Kit, Standard or Stretcher, are available from your authorized 3M Electrical Distributor.

**WARNING:** *Turn power off before installing or removing terminal or connector. All work should be done according to appropriate electrical codes.*

**14/3 without ground to 8/3 with ground / UF cable (Direct Burial) / Solid Copper wire only (600 volts maximum)**

## To complete a splice of 14 to 8 gauge UF copper wire, follow steps 1 through 9:

1. Remove 2" of jacket from UF cable.
2. Strip 5/8" of insulation from conductors.
3. Clean cable surface and wipe dry, approximately 4 inches per side of the splice. Lightly abrade the two clean insulation surface. Clean cable surface and wipe dry again.
4. Slide the enclosed long piece of heat shrink tube over one end of the wire.
5. Insert wires, one at a time, into the brass connector making sure that the wires of desired connection are in the same brass sleeve. Make sure that the wires are inserted an equal length into the brass sleeve so that the set screw can engage into the copper of each wire. (Figure #1)
6. Tighten screws with 8 inch pounds of torque. (Figure #1)

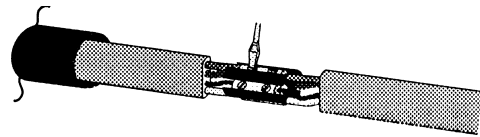


Figure #1

7. Slide long piece of heat shrink over connection centering it with respect to the brass/plastic connector assembly. (Figure #2)

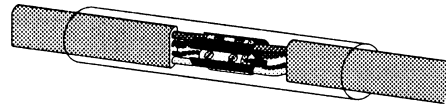


Figure #2

8. Apply heat to the shrink tube with a torch or heat gun starting in the middle of the shrink tube, moving out to each end. (Figure #3)
9. Apply heat to tube until adhesive flows out on both ends of tube. (Figure #3)

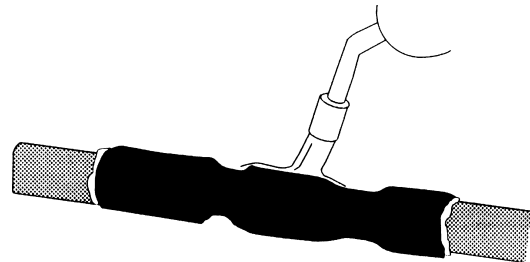


Figure #3

Properly installed, shrink tube will be smooth and conform to the cable. Adhesive should be visible at each end of the shrink tubing.

UL Listed for use in direct burial locations or below grade. Also UL Listed "Submersible" and "Raintight" per UL 486D.  
UL Rated at 600 volts Wire Range: 14/3 without ground to 8/3 with ground

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# 3M

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