

INSTALLATION INSTRUCTIONS

Terminating FuseConnect™ Connectors

1.0 GENERAL

1.01 This document provides termination instructions for AFL Telecommunications' FuseConnect™ connectors. Be sure to read these instructions carefully before proceeding.

1.02 Tools required to complete installation:

- Kevlar Scissors
- Fiber Stripper
- 3mm & 2mm Jacket Stripper
- CT-30A Universal Cleaver
- Marker Pen
- Lint-Free Cloth Wipes
- Fiber Preparation Fluid

1.03 FuseConnect™ Installation Kit contents. (see **FIGURE 1**)

- 3mm Cable Clamp
- 2mm Cable Clamp
- Tube Heater Power Cable
- Tube Heater
- Transfer Tool
- Tube Heater Mount Bracket
- 900µm Fiber Holder
- 2mm Fiber Holder
- 3mm Fiber Holder

WARNING: Always wear eye protection when handling optical fibers. Dispose of any cut or cleaved ends properly. Do not touch the wedge with bare hands.

2.0 INSTALLATION

2.01 Identify components of the connector kit. (see **FIGURE 2**)

2.02 For 3mm & 2mm: Measure 10" from end of cable and place the cable into the appropriate clamp. Slide the cable clamp to tighten cable down. (see **FIGURE 3**)

2.03 For 3mm, 2mm, & 900µm: Slide the connector boot and the protective sleeve onto cable.

2.04 For 3mm & 2mm: Measure and mark 35mm from the end of the cable jacket.

For 900µm: Measure and mark 32mm from end of fiber.

2.05 For 3mm & 2mm: Strip 35mm of cable jacket. Measure 32mm on the 900µm buffered fiber and mark the location. Pull the Kevlar back over cable jacket and strip 32mm of the 900µm buffered fiber by removing increments of 6mm.

For 900µm: Strip 32mm of 900µm buffered fiber by removing increments of 6mm.

2.06 Clean the stripped fiber with fiber preparation fluid wipe.

2.07 For 3mm & 2mm: Pull the Kevlar back and place the cable into the fiber holder with 900µm buffered fiber in the v-groove.

Close the small clamp of fiber holder and then the large clamp. (see **FIGURE 4**)

For 900µm: Place the fiber into the fiber holder v-groove and close the fiber holder clamp. (see **FIGURE 4**)

2.08 Trim Kevlar at the end of the fiber holder large clamp.

2.09 Insert fiber holder into the cleaver. Cleave fiber. (**FIGURE 5**)

2.10 Load the fiber holder and connector body into splicer. Close the splicer cover. (see **FIGURE 6**)

2.11 Connect the tube heater and tube heater power cable to the splicer (make sure the tube heater is in the correct mode).

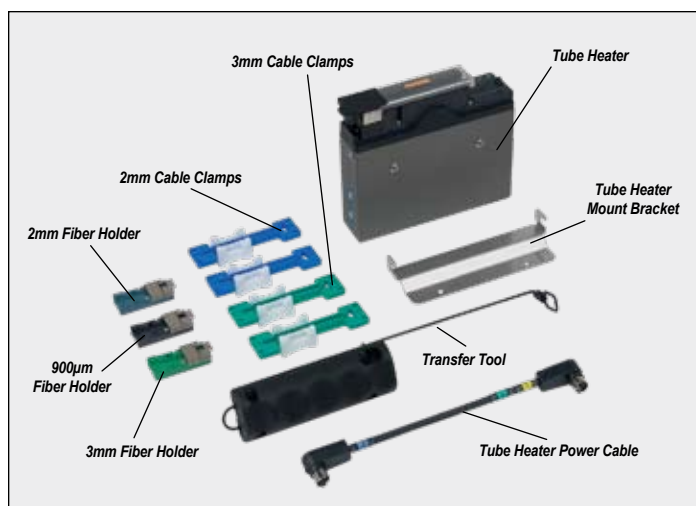


FIGURE 1 — FuseConnect™ Installation Kit

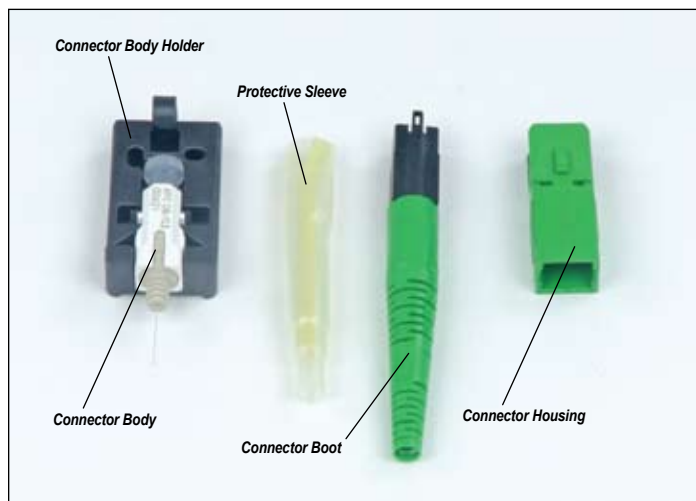


FIGURE 2 — FuseConnect™ Connector Kit

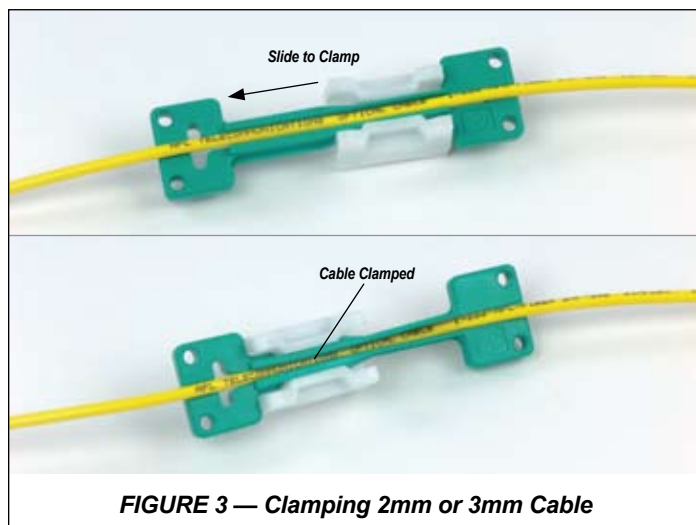


FIGURE 3 — Clamping 2mm or 3mm Cable

- 2.12 Splice fiber to FuseConnect™ connector fiber.
- 2.13 After splicing, remove the cable clamp from the cable and slide the protective sleeve toward the fiber holder.
- 2.14 Position the handle of the transfer tool so that the cable or fiber slide into the groove on the handle. Insert the tool into the connector body holder. (see **FIGURE 7**)
- 2.15 Using the left hand, grip the handle of the transfer tool and secure the cable (or fiber) firmly with the thumb. Use the right hand to open the fiber holder clamps. (see **FIGURE 7**)
- 2.16 Using the transfer tool, pick up the connector body holder.
- 2.17 Slide protective sleeve onto connector body.
- 2.18 Insert the connector body holder into the tube heater. Make sure the protective sleeve is flush against the back of the connector body. (see **FIGURE 8**)
- 2.19 Remove the transfer tool and close the tube heater cover. Press the red button to start heat cycle.
- 2.20 After the heat cycle is finished, open the tube heater cover and allow the protective sleeve to cool for 1 minute.
- 2.21 Remove the cable and connector assembly from tube heater. Remove the connector from connector body holder.
- 2.22 **For 3mm, 2mm, & 900µm:** Slide the connector boot over the protective sleeve and snap onto the connector. (see **FIGURE 9**)
- 2.23 Check bevel for proper orientation. Install the connector housing onto the connector assembly from the front. (see **FIGURE 10**)
- 2.24 Termination complete.



FIGURE 6 — Placing Fiber Holder & Connector into Splicer



FIGURE 7 — Insert Transfer Tool into Connector Body Holder



FIGURE 8 — Inserting Connector Body into Tube Heater



FIGURE 9 — Connector Boot Installed on Connector Body



FIGURE 10 — Installing Connector Housing onto Connector

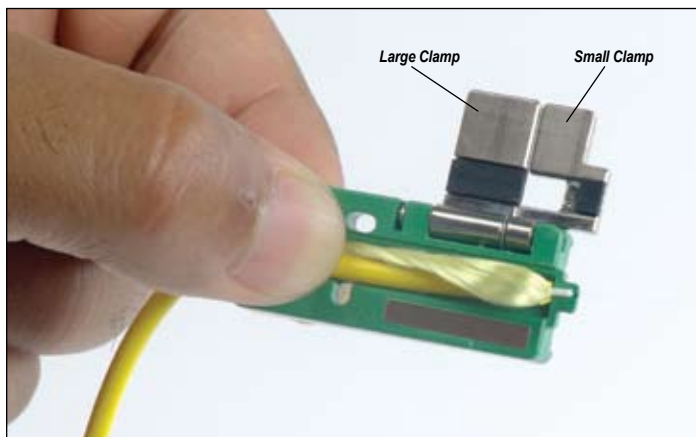


FIGURE 4 — Placing Fiber into Fiber Holder

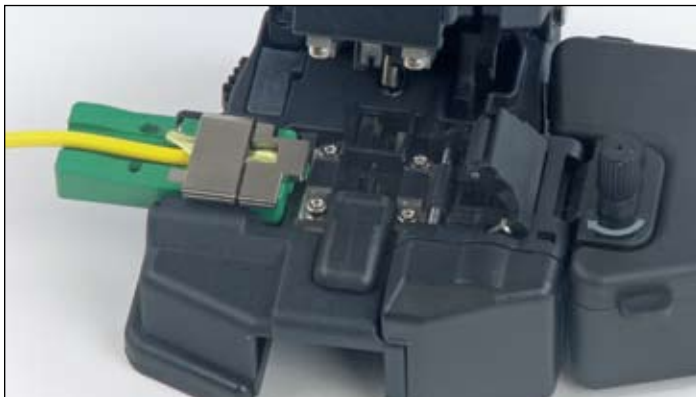


FIGURE 5 — Placing Fiber Holder into Cleaver