Installation Procedures for ST II
Fiber Optic Connectors
Epoxy and EZ Method
(Multimode and Singlemode)
Behind-The-Wall (BTW) and Jumper Connector Termination

Material ID 860 394 105

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Installation Procedures for ST II
Fiber Optic Connectors
(Multimode and Singlemode)

1. General

The 1032H and 1032B5/B6 Tool Kits contain tools to assemble ST II*, ST II+, and SC connectors onto building and optical-fiber cables (Figures 1 and 2). Required consumables are sold separately.

The consumables kits for singlemode and multimode connectors are shown in Table 1 below. Each contain polishing paper and other materials required to assemble the connectors. Type F polishing paper is required for all MM connector ferrule repairs. Type F polishing paper is a diamond polishing paper, which is costly and therefore sold in a separate kit so that it can be managed efficiently. Type F paper will remove zirconia ferrule material. This is needed when a glass fiber breaks off below the ferrule surface.

Adhesives required for the EZ installation procedure must be purchased separately. Adhesives can be purchased from SYSTIMAX® as EZ Adhesives (Material ID 760000810) or adhesives can be purchased from any Loctite distributor.

The approved adhesives are as follows:

- 648 Retaining Compound
- 7090 Solventless Primer
- 495 Superbonder

Epoxy is not contained in the consumables kits. Epoxy has a shelf life and must be ordered separately. It is sold separately to allow better material management by separating the epoxy from polishing materials that do not have a shelf life.

See Sections 10.5 and 10.6 for ordering information.

* ST is a registered trademark of OFS

Table 1.

<table>
<thead>
<tr>
<th>Connector Code</th>
<th>Type Mode</th>
<th>Buffer or Jacket Size (mm)</th>
<th>Material ID</th>
<th>Consumable Kit Required (a)</th>
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<tr>
<td>P2020C-Z-125</td>
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<td>Kit-C-UNIV-M-100</td>
<td>760066720</td>
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<td>MM</td>
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<td>700011067</td>
<td>Kit-C-UNIV-S-100</td>
<td>760066738</td>
</tr>
</tbody>
</table>

Notes: 1. Type F polishing paper is required for repairs, see Table 6 in Section 10.3.
2. How to Contact Us

- To find out more about SYSTIMAX® Solutions, visit us on the web at http://www.systimax.com/
- For technical assistance regarding SYSTIMAX products:
  - Within the United States, contact your local account representative or SYSTIMAX technical support at 1-800-344-0223. Outside the United States, contact your local account representative or Authorized BusinessPartner.
  - Within the United States, report any missing or damaged parts to SYSTIMAX Customer Service in Omaha, NE, at 1-866-539-2795. Outside the United States, contact your local account representative or Authorized BusinessPartner.

3. Precautions

- Safety glasses should be worn at all times while performing the installation procedures.
- Avoid skin contact with adhesive.
- When the heater is in operation, place it away from combustibles.
- Disconnected optical connectors may emit radiation if the far end is coupled with a working laser or Light-Emitting Diode (LED). Do not view the fiber end of a cable or plug with an optical instrument until absolute verification is established that the fiber is disconnected from any laser or LED source.
- For cleaning of these fiber optic products, always use fiber optic cleaning solution or Isopropyl Alcohol (>91% 2-Propanol + water).
- It is recommended that you use the E-Series Ultrajet® duster when canned air is required.
- As compressed air products have the potential to deposit moisture and propellant debris on critical optical surfaces, CommScope does not recommend the use of any canned air products when cleaning fiber optic connector surfaces.

4. Cable and Fiber Preparation

4.1 Coated Fiber

**Note:** Use the appropriate procedures for preparing outside plant (OSP) cable. See instruction sheet 636-299-110-5 for more information on grounding, blocking, and buffering fiber optic cable.

**IMPORTANT:** Do not attempt to remove the fiber coating until a buffer tube has been placed over the coated fiber. This will prevent cutting the fiber by mistake.

1. **Expose an Appropriate Length of Coated Fiber** (as specified in the D-181755 Kit) to allow for connector installation and termination.
2. **Place an Appropriate Length of Buffered Tubing** from the D-181755 Kit over the fiber to be stripped.
3. **Place Buffer Support onto Fiber** Slip the buffer support onto the buffer tube covering the fiber (Figure 3).

![Figure 3. Install Buffer Support on Buffer Tubing](image)

4. **Remove Fiber Coating**—With the stripper handles open and the buffered tube aligned with the end of the fiber, insert both fiber and buffer tubing through the guide tube opening enough to allow about 0.75 inch (19 mm) of buffer and fiber coating to be removed (Figure 4 and Figure 5). Close the handles and pull the buffer away from the tool with a smooth motion. Wipe the stripped fiber with a wipe dampened with isopropyl alcohol to remove any residual coating.

![Figure 4. Heat-Strip Tool–Remove Fiber Coating from Buffered Fiber](image)

![Figure 5. Recommended Strip Dimensions for Singlemode and Multimode Connectors](image)
5. **Install Connector on Fiber**—Use the procedures outlined in Section 7.1 to complete installation of the connector, cure the adhesive, polish and inspect the fiber end.

### 4.2 Buffered Fiber Cable (Premises/Building)

1. **Remove Outer Jacket**—Using the R-4366 sheath removal tool, ring-cut the outer sheath the required distance from the cable end and remove outer jacket (Figure 6). Typical length is approximately 24 to 36 inches (0.6 to 0.9 meters).
   
   **IMPORTANT:** Do not cut into fibers.

   **Note:** The exposed buffered fiber should be long enough to:
   - Allow for placement into the equipment cabinet.
   - Allow access during the polishing process.
   - Prevent stress on the fiber during connector application.

   **Note:** See Table 1 on page 1 to verify correct connector choice for cable type.

2. **Place Buffer Support onto Cable**—Slip the buffer support onto the buffered fiber (Figure 7).

3. Measure and Mark the Buffered Fiber 0.75 inch (19 mm) from the end.

4. **Remove Buffer and Fiber Coating**—Refer to 1026A heat-strip tool operating instructions for setup. Make sure heater unit is fully inserted.

5. **Set Aside the Prepared Fibers**—Place the prepared fiber into the grooves of the 971A holder block as shown in Figure 10 (provided with the tool kits).

6. **Install Connector on Fiber**—Use the procedures outlined in Section 7.1 to complete the installation of the connectors, cure the adhesive, polish and inspect the fiber end.
Jacketed Fiber Cable
(1.6, 2.4, and 3.0 mm)

1. Place Cable Support and Crimp Sleeve onto Cable—Slip the cable support and the crimp sleeve onto the cable (Figure 11).

2. Measure and Mark Cable—Using either a scale or template, measure and mark the cable 1.25 inches (32 mm) from the end of the cable.

3. Remove Outer Jacket—Using the Number 1 notch on the blue-handled 700A stripping tool, remove the outer jacket back to the mark (Figure 12).

4. Cut Strengthening Yarn—With the strengthening yarn separated into two equal size bundles, use scissors to trim the strands 0.25 inch (6 mm) from the edge of the outer jacket (Figure 13). Flair the strengthening yarn evenly all around the cable.

5. Measure and Mark Buffered Fiber—Measure and mark the buffered fiber 0.75 inch (19 mm) from the end of the buffered fiber.

6. Remove Buffer and Fiber Coating—Refer to 1026A heat-strip tool operating instructions for setup. Make sure heater unit is fully inserted. Insert buffered fiber through the guide tube to allow 0.75 inch (19 mm) of the buffer and coating to be removed. Close the handles and wait 6 to 10 seconds for softening of the buffer to occur. Pull the fiber from the tool with one smooth motion (Figure 14). The delay is not necessary for 1800 and 2000 series cordage. Wipe the stripped fiber with a wipe dampened with isopropyl alcohol to remove any residual coating.

7. Set Aside Prepared Cable—Place the prepared cable into the grooves of the 971A holder block provided with the tool kit (Figure 16).

Figure 11. Cable Support and Sleeve on Jacketed Fiber Cable

Figure 12. Strip Outer Jacket of Single Fiber Cable

Figure 13. Cut Strengthening Yarn—Jacketed Fiber Cable

Figure 14. Heat-Strip Tool—Jacketed Fiber Cable

Figure 15. Recommended Dimensions for Jacketed Cordage
8. Install Connector on Fiber—Use the procedures outlined in Section 7 to complete the installation of the connector, polish the fiber end, and inspect it.

5. Epoxy Preparation

Preparation of Epoxy Furnished in Plastic Container

1. Remove Epoxy Divider—This is a two-part epoxy separated with a divider. The divider must be removed to allow the epoxy to be mixed.

2. Mix the Epoxy—Using the divider, thoroughly mix the epoxy until both parts are blended into a smooth, uniform color (Figure 17).

3. Install Syringe Tip—Place the syringe tip onto the syringe and twist to lock it in place. Then remove the plunger to allow the mixed epoxy to be loaded into the syringe.

4. Place Epoxy into Syringe—Fold the epoxy package in half, cut the corner of the package, and squeeze the mixed epoxy into the syringe (Figure 18). Replace the plunger in the syringe. A 3/4-inch length (19 mm) of epoxy will be enough for about 12 connectors.

5. Remove Air From Syringe—Remove air pockets from the syringe by holding the syringe tip upward and ejecting epoxy until the air pockets are removed.

6. Adhesive and Primer Preparation

For the EZ installation method use the following Loctite products;

- 648 Retaining Compound
- 7090 Solventless Primer
- 495 Superbonder

Adhesives may be purchased directly from SYSTIMAX Solutions using Material ID 760000810 EZ Adhesive. They may also be purchased directly from a Loctite distributor.

1. Prepare adhesive—Shake the bottle of adhesive vigorously. Remove the cap from the bottle of adhesive. If the adhesive has not been opened, use a straight pin to make a hole in tip of nozzle.

2. Remove plunger and cap from a syringe and load adhesive into the syringe. Replace plunger and twist a syringe tip into place. (As a second option, simply twist a syringe tip onto nozzle of adhesive bottle making sure that tip fits snugly.)

3. Prepare primer—Shake the bottle of primer vigorously. Place a syringe tip onto a 3-cc syringe and twist to lock it in place. Remove the top from the bottle of primer and draw 0.5-cc of primer into the syringe. Alternatively, simply twist a syringe tip onto nozzle of adhesive bottle making sure that tip fits snugly.)

Note: Once the installation procedure has been completed, any extra primer in the syringe may be returned to the original bottle. However, the syringe tip should be removed to avoid getting adhesive, which may be on tip, mixed in with primer.
7. Connector Installation

7.1 Connector–Buffered Fiber Assembly

1. **Apply the Primer to Fiber Buffer**—Using the syringe with the primer in it, apply primer to 0.25 inch (6 mm) of the buffer (Figure 19). Avoid getting the primer on the fiber. If several connectors are being terminated, it is recommended that all of the buffers be primed before moving on to the next step.

![Figure 19. Apply Primer to Buffer](image)

2. **Prepare Connector Tip**—Make sure that the hole in the connector tip is clear of any foreign matter. Use music wire to clear the hole if necessary. Place a wipe on the worktable. Using the syringe, place a drop of primer on the wipe. Wipe the end of the connector through the primer on the wipe one time.

3. **Install Connector Holder**—Place the connector body in a 600A or 600B connector holder (Figure 20).

![Figure 20. Install Connector Holder](image)

4. **Inject Adhesive into Connector**—Gently insert the syringe tip into the barrel of the connector until it bottoms, then slowly inject adhesive into the connector until a bead of adhesive forms on the tip of the ferrule.

**IMPORTANT:** The adhesive bead should cover at least one-half of the ferrule end face.

![Buffer Cap](image)

5. **Insert Fiber into Connector Body**—Immediately insert the fiber through the connector body, carefully feeling for the ferrule capillary. Rotate the connector body as the fiber is inserted to allow the fiber to pass through the connector body without hanging up. Seat the fiber into the connector body making sure the buffer is completely seated against the ceramic inside the connector body.

6. **Install Buffer Support**—Slip the buffer support onto the connector barrel and rotate the support to allow for proper adhesive distribution.

7. **Install Buffer Cap**—Apply a drop of Loctite Super Bonder 495 to the threads of the buffer cap. Slip the buffer cap over the buffer support and screw the extender into the connector body. Make sure that the fiber is fully seated into the connector and place a micro clip (1043A tool) on the buffer support to make sure the fiber is not inadvertently pulled out of the connector (Figure 21).

**IMPORTANT:** Use only the connector or buffer support when handling the connector assembly. Make sure that the buffered fiber is fully inserted into the connector. Place a micro clip on the buffer support as shown. This inhibits the buffered fiber from being accidentally pulled out of the connector.

![Figure 21. Install Buffer Cap](image)

8. **Allow Adhesive to Cure**—Place the assembly in the 971A holder block. Allow the adhesive to cure at least 1 minute.
7.2 Cure the Epoxy

**Note:** This section pertains to heat cured epoxy termination. The following steps should be performed if the connector termination was done with heat cured epoxy.

1. **Set-up the Curing Oven**—Place the oven away from combustibles, and connect the power cord to a power source (120 V 60 Hz AC for the 200A oven and 220 V 50 Hz AC for the 200A1 international oven). To apply power, push the ON/OFF switch to the ON position. The switch will illuminate, indicating that the power is on. In about 5 minutes, an illuminated READY lamp indicates that the oven is ready for use.

**IMPORTANT:** If terminating 1.6 mm cordage, place the heat tube assembly fixtures into the ports of the oven (Figure 22).

2. **Place Connector into Oven**—Place the connector and holder assembly into one of the oven ports (Figure 23). Cure for 10 minutes. Connectors on 1.6 mm cordage will be inserted into the heat tube assembly fixtures.

3. **Place Connector into 971A Holder Block**—After 10 minutes of curing time, remove the connector and holder assembly from the oven and place it into one of the ports in the 971A holder block to cool (Figure 24).

4. **Install Cable Support**—For 1.6 mm cable, snap the cable onto the connector body.

7.3 Connector–Jacketed Fiber Cable Assembly (1.6, 2.4, and 3.0 mm)

1. **Apply Primer to Fiber Buffer**—Using the syringe with the primer in it, apply primer to 0.25 inch (6 mm) of the buffer. Avoid getting the primer on the fiber. If several connectors are being terminated, it is recommended that all of the buffers be primed before moving on to the next step. (Figure 25).

2. **Prepare Connector Tip**—Make sure that the hole in the connector tip is clear of any foreign matter. Use music wire to clear the hole if necessary. Place a wipe on the worktable. Using the syringe, place a drop of primer on the wipe. Wipe the end of the connector through the primer on the wipe one time.

3. **Place Connector in 600A or 600B Connector Holder**—Place the connector into a 600A or 600B connector holder making sure that the bayonet pins of the holder are fully seated in the bayonet slots of the connector housing (Figure 26).
4. **Inject Adhesive into Connector Body**—Gently insert the syringe tip into the barrel of the connector until it bottoms, then slowly inject adhesive into the connector until a bead of adhesive forms on the tip of the ferrule (Figure 26).

**IMPORTANT:** The adhesive bead should cover at least one-half of the ferrule end face.

When the adhesive forms the correct size bead on the tip, slowly withdraw the syringe tip from the connector.

5. **Insert Fiber into Connector Body**—Immediately insert the fiber through the connector body, carefully feeling for the ferrule capillary. Rotate the connector body as the fiber is inserted to allow the fiber to pass through the connector body without hanging up (Figure 27).

6. **Install Crimp Sleeve**—Slip the cable (crimp) sleeve over the outer jacket and the connector body to capture the strengthening yarn between the body and sleeve (Figure 28).

7. **Secure Crimp Sleeve**—Position the 600A or 600B connector holder pins onto the connector body as shown in Detail A of Figure 29 for the crimping and curing operation. This will allow the sleeve to be fully exposed for crimping. Before crimping, make sure the sleeve is butted against the connector.

   - **For silver 2.4 mm sleeves**—Use position B of the 102A crimping tool as shown in Detail B, Figure 29. Place the tool over the sleeve so when crimped the first two indentations on the sleeve appear over the connector barrel and the third appears over the cable jacket. This will ensure a good crimp and prevent cable rotation. Squeeze the crimping tool handles until they release. Rotate the connector 90° and crimp again.

   - **For black 3.0 mm sleeves**—Follow the same procedures described above except use position C on the 102A crimping tool, or the position marked ST on the 1510B crimping tool. DO NOT use the 1510B crimping tool to crimp silver 2.4 mm sleeves.

8. **Install Cable Support**—Apply a drop of adhesive onto the threads of the cable support, slip the support over the crimped sleeve, and screw the support into the connector body (Figure 30).
9. **Allow Adhesive to Cure**—Place assembly in a 971A holder block (Figure 24). Allow adhesive to cure for at least 1 minute.

**Note:** If using heat-cured epoxy, cure epoxy as described in Section 7.2 of this document.

8. **Cleave Fiber and Polish Connector Ends**

8.1 **Cleave the Fiber**

1. **Score the Fiber**—Remove the 600A or 600B holder from the connector. Carefully wipe any uncured adhesive from around the fiber where it protrudes from the adhesive bead using the edge of a wipe.  

   **Be careful not to break the exposed fiber.** Using one stroke with the cleaving tool (Figure 31), score the fiber close to the crest of the adhesive bead.

   **Note:** A clean, short score significantly improves the success rate. **Do not break the fiber.**

2. Using a **gentle straight pull**, remove the exposed fiber. If the fiber does not pull off with a gentle pull, rescore on the opposite side of the fiber.

![Figure 31. Score the Fiber](image)

8.2 **Polish Connector Ends**

1. **Prepare Polishing Material**—Before positioning the polishing material, clean the bare polishing plate and the back of the polishing paper with a wipe dampened with isopropyl alcohol. Blow the plate and paper dry with canned air.

   **IMPORTANT:** Foreign material can cause scratches on the end face of the ferrule if the polishing plate or paper is not properly cleaned.

2. **Prepare Polishing Tool**—Clean the surface of the 1510A polishing tool and the connector tip with a wipe dampened with alcohol.

3. **Air Polish the Cleaved Fiber**—Hold the type H polishing paper, dull side against the connector. Point the connector ferrule upward and, using light circular or figure-8 strokes, polish the cleaved fiber down flush with the adhesive bead.

   **Note:** This will reduce the risk of breaking the fiber during the first polishing.

4. **Insert Connector into Polishing Tool**—Insert the connector tip into the 1510A polishing tool (Figure 32). Refer to the polishing guide (Table 2) and the detailed instructions in the following sections.

![Figure 32. Prepare Polishing Tool](image)
ST II Connector Polishing Guide

Table 2.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>1st Polish</th>
<th>2nd Polish</th>
<th>Repairs</th>
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<td>SM</td>
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<tr>
<td>End Face Geometry</td>
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<td>Domed</td>
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<tr>
<td>Polishing Solution</td>
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</tr>
<tr>
<td>Polishing Time or Number of Strokes</td>
<td>Remove all adhesive</td>
<td>Remove all adhesive</td>
<td>8 strokes</td>
</tr>
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</table>

8.2.1 Polish Domed-Tipped Connector Ends

1st Polish – Singlemode and Multimode Connector

1. Place a sheet of type H (green) polishing paper over the plate.

2. Carefully place the connector ferrule into the polishing tool. Starting with extremely light pressure, polish the connector on the type H paper using figure-8 strokes until all adhesive has been removed (Figure 33). Check periodically with the eye loupe or magnifier to verify that all of the adhesive has been removed.

No further polishing is required for multimode connectors.

Note: Extremely light pressure should be used during the first few polishing strokes to avoid breaking the fiber.

3. Start with a fresh area of the polishing paper for each connector to be polished.

4. Remove the connector from the polishing tool and clean both the connector and the tool with a wipe dampened with isopropyl alcohol. Then use canned air to dry the connector and the tool. Once cleaned, replace the connector into the tool.

Figure 33. Polish Domed-Tipped Connectors (Type H Paper)
2nd Polish – Singlemode Connector

1. To achieve optimum return loss, place the type E paper over a sheet of type H (green) polishing paper (glossy side down).

2. Add a small amount of water to the portion of the type E paper that will be the working area. Using the polishing tool, work the water into the polishing paper.

3. Place the connector ferrule into the polishing tool and polish the connector ferrule for 6 to 8 strokes; each stroke should be approximately 2 inches (51 mm) in height (Figure 34).

WARNING: DO NOT exceed 15 strokes.

9. Inspection

9.1 Using Microscope to Inspect Fiber

1. **Attach Connector to Microscope**—See Section 3 on page 2. Insert the connector tip into the bottom of the microscope. Open the microscope barrels to illuminate the connector tip, and use the side wheel to focus. A high-intensity light may be used at the other end of the fiber to illuminate the core area.

   **CAUTION:** Do not use a laser or LED to illuminate the core area for viewing. The core may not necessarily illuminate if an adhesive film or bead still exists on the connector end face.

2. **Inspect Fiber End**—An acceptable fiber end is free of cracks. Voids or scratches must be avoided in the core area (Figure 35). If the fiber is unacceptable, this fiber end must be reterminated.

   **Note:** If the connector is not to be used immediately, cover the end with the protective cap.
Multimode Connectors

Acceptable Polish

Unacceptable Polishes

Singlemode Connectors

Acceptable Polish

Unacceptable Polishes

Figure 35  End Face Inspection for Connectors
9.2 Repairs (Domed Connectors Only)
When the fiber is cracked or scratched in or near the core, the ferrule in some instances can be repaired.

1. Place type F paper over the type H paper. Type F polishing paper is available by ordering Material ID 700006695. Add a small amount of water to the portion of the paper that will be the working area. Polish the connector for 20-40 strokes or until the flaw has been removed. **No further polishing is required for multimode connectors.**

2. For singlemode connectors, once the flaw has been removed, repeat the **2nd polish** described in Section 8.2.1 for singlemode dome-tipped connectors.

10. Ordering Information

10.1 Tool Kits

**1032B5 Tool Kit (Material ID 700 006 026)**
Contains the following tools and materials for assembly of ST II, and SC fiber optic connectors.

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<th>Kit</th>
<th>Qty</th>
<th>Description</th>
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<td>1510B Crimping Tool</td>
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<tr>
<td>1</td>
<td>300B Microscope</td>
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<td>1</td>
<td>1510A or 1510A1 Polishing Tool</td>
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<td>12</td>
<td>600B Connector Holders</td>
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<td>Modified SM/MM SC Grips</td>
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**1032B6 Tool Kit (Material ID 700 005 960)**
The 1032B6 Tool Kit is the same as the 1032B5 Tool Kit except the 200A curing oven is replaced by the 200A1 curing oven for use internationally. The 200A1 oven operates on 220 V 50 Hz.

**1032H Tool Kit (Material ID 700005838)**
Contains the following tools and materials for assembly of SC Fiber Optic Connectors.

### Table 4

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<th>Kit Quantity</th>
<th>Description</th>
<th>Kit Quantity</th>
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<td>300B Microscope</td>
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<td>Sheath Removal Tool (R-4366)</td>
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<tr>
<td>1</td>
<td>1510A Polishing Tool</td>
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<td>Instruction Manual</td>
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<tr>
<td>12</td>
<td>600B1 Connector Holders</td>
<td>15</td>
<td>Micro Clips (1043A)</td>
</tr>
<tr>
<td>1</td>
<td>700A Stripping Tool</td>
<td>12</td>
<td>1510C SC Connector Holders</td>
</tr>
<tr>
<td>1</td>
<td>5B5-Strip Tool</td>
<td>2</td>
<td>Modified SM/MM SC Grips</td>
</tr>
<tr>
<td>1</td>
<td>975A Cleaving Tool</td>
<td>1</td>
<td>1039A Cut-Length Template</td>
</tr>
<tr>
<td>1</td>
<td>Scissors</td>
<td>1</td>
<td>1039B Cut-Length Template</td>
</tr>
<tr>
<td>1</td>
<td>Alcohol Bottle</td>
<td>1</td>
<td>7X Magnifier</td>
</tr>
<tr>
<td>1</td>
<td>Acrylic Plate</td>
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</tbody>
</table>

### 10.2 ST II Connectors

### Table 5

<table>
<thead>
<tr>
<th>Connector Code</th>
<th>Material ID</th>
<th>Fiber Mode</th>
<th>Ferrule Type</th>
<th>Housing Description</th>
<th>Cable Size (mm)</th>
<th>Fiber OD (μm)</th>
<th>Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>P2020C-C-125</td>
<td>700004583</td>
<td>MM</td>
<td>Flat Alumina</td>
<td>Enh-Metal</td>
<td>0.9/2.4/3.0</td>
<td>125</td>
<td>Individual</td>
</tr>
<tr>
<td>P2020C-Z-125</td>
<td>700004328</td>
<td>MM</td>
<td>Domed Zirconia</td>
<td>Enh-Metal</td>
<td>0.9/2.4/3.0</td>
<td>125</td>
<td>Individual</td>
</tr>
<tr>
<td>P2020C-Z-125-100</td>
<td>700004310</td>
<td>MM</td>
<td>Domed Zirconia</td>
<td>Enh-Metal</td>
<td>0.9/2.4/3.0</td>
<td>125</td>
<td>Bulk (100 pieces)</td>
</tr>
<tr>
<td>P2021C-Z-125</td>
<td>TBD</td>
<td>MM</td>
<td>Domed Zirconia</td>
<td>Enh-Metal</td>
<td>0.9</td>
<td>125</td>
<td>Individual</td>
</tr>
<tr>
<td>P3020A-Z-125</td>
<td>700011067</td>
<td>SM</td>
<td>Domed Zirconia</td>
<td>Enh-Metal</td>
<td>0.9/2.4/3.0</td>
<td>125</td>
<td>Individual</td>
</tr>
<tr>
<td>P3020A-Z-125-100</td>
<td>TBD</td>
<td>SM</td>
<td>Domed Zirconia</td>
<td>Enh-Metal</td>
<td>0.9/2.4/3.0</td>
<td>125</td>
<td>Bulk (100 pieces)</td>
</tr>
<tr>
<td>P3021A-Z-125-100</td>
<td>TBD</td>
<td>SM</td>
<td>Domed Zirconia</td>
<td>Enh-Metal</td>
<td>0.9</td>
<td>125</td>
<td>Bulk (100 pieces)</td>
</tr>
</tbody>
</table>

### 10.3 Consumable Kits—Do not contain adhesives

### Table 6

<table>
<thead>
<tr>
<th>Description</th>
<th>Product Code</th>
<th>Material ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multimode ST II, SC, LC installation</td>
<td>Kit-C-UNIV-M-100</td>
<td>760006720</td>
</tr>
<tr>
<td>Multimode ST II, SC, LC Repair</td>
<td>F Polishing Paper</td>
<td>700006695</td>
</tr>
<tr>
<td>Singlemode ST II, SC, LC installation</td>
<td>Kit-C-UNIV-S-100</td>
<td>760066738</td>
</tr>
</tbody>
</table>

**D-181755 Kit (Material ID 700006117)**—Contains the parts required to make a transition from ribbon or LIGHTPACK® bundle to individually buffered fibers.

### 10.4 Couplings (Standard)

### Table 7

<table>
<thead>
<tr>
<th>Coupling Code</th>
<th>Material ID</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>C2000A-2</td>
<td>700004864</td>
<td>Bayonet/Threaded Coupling (MM)</td>
</tr>
<tr>
<td>C3000A-2</td>
<td>700001133</td>
<td>Bayonet/Threaded Coupling (SM)</td>
</tr>
</tbody>
</table>

* LIGHTPACK is a registered trademark of OFS*
10.5 Epoxy

The approved epoxies for use with the **SYSTIMAX** epoxy field installations can be obtained from the following distributors:

**Product: EPO-TEK 353ND**

**USA**
Epoxy Technologies, Inc.
14 Fortune Drive
Billerica, MA 01821
Tel. 1-800-227-2201

**Asia, (Japan)**
Daizo Corporation
Tel. 81-3-3246-2251
Fax 81-3-3246-2271

**Europe, (France)**
Poltec PI, S.A.
Tel. 33 1 48 10 39 30
Fax 33 1 48 10 08 03

**Product: Tra-Bond F123MV**

**USA**
Tra-Con, Inc.
45 Wiggans Avenue
Bedford, MA 01730
Tel. 1-800-872-2661

**Asia, (Singapore)**
Tra-Con Singapore
Tel. 65-29-93-071

10.6 Adhesives

For the EZ installation procedures, the following adhesives are required:

- 648 Retaining Compound (10 ml) #21443
- 7090 Solventless Primer (1 oz. Bottle) # 19368
- 495 Superbonder (3 gram tube) #49504 (required on 0.9 mm installations)

The approved adhesives can be obtained from **SYSTIMAX** Solutions or any **Loctite** Distributor. To order from **SYSTIMAX** Solutions, request Material ID 760000810 EZ Adhesives. To find the **Loctite** Distributor nearest you either:

Visit their website at [www.loctite.com](http://www.loctite.com) — OR — Call 1-800-323-5106