EPOXY INSTALLATION FOR SC FIBER OPTIC CONNECTORS (MULTIMODE AND SINGLEMODE) USING UNIVERSAL POLISHING PROCEDURE
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1.0 General

The 1032B5 (standard version) and the 1032B6 (international version) Tool Kits contain tools to assemble SC Connectors onto fiber optic cables. The 1032B5 Kit is identical to the 1032B6 Kit except the 200A1 Curing Oven replaces the 200A Curing Oven in the 1032B6 international version.

The Universal Polishing Kit contains polishing paper and other materials required to assemble approximately 100 connectors. (Note: Epoxy is not included in the Universal Polishing Kit) See the table below for proper applications.

The assembled SC Fiber Optic Connector is intended for use in Local Area Networks (LANs), Premises Distribution Systems (PDSs), fiber to the home, and other applications where quality, small-size, low-loss, and low-cost connections are required.

Ordering Information for the 1032( ) Tool Kits and the SC Connector assembly kits is provided in Section 9.

Figure 1. 1032B(5/6) Tool Kit

Figure 2. SC Fiber Optic Connectors

Table 1. Connector Product Description

<table>
<thead>
<tr>
<th>Connector Code</th>
<th>Type Mode</th>
<th>Buffer or Jacket Size (mm)</th>
<th>End Face Geometry</th>
<th>Univ. Consumable Kit</th>
<th>Tool Kit Required 1032( )</th>
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</thead>
<tbody>
<tr>
<td>P6200A-Z-125</td>
<td>MM</td>
<td>1.6, 3.0</td>
<td>Domed</td>
<td>300486552</td>
<td>B5 or B6</td>
</tr>
<tr>
<td>P6201A-Z-125</td>
<td>MM</td>
<td>0.9</td>
<td>Domed</td>
<td>300486552</td>
<td>B5 or B6</td>
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<td>P6000A-Z-125</td>
<td>SM</td>
<td>0.9, 1.6, 3.0</td>
<td>Domed</td>
<td>300472651</td>
<td>B5 or B6</td>
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<tr>
<td>P6001A-Z-125</td>
<td>SM</td>
<td>0.9</td>
<td>Domed</td>
<td>300472651</td>
<td>B5 or B6</td>
</tr>
</tbody>
</table>

Note 1: When using 250-µm coated fiber, also use D-181755 Consumable Kit (see Section 3.1). The D-182919 Consumable Kit is required for 1.6-mm MiniCord™ termination.

Note 2: Jacketed Fiber Cable (Cordage) Compatibility: The SC connector should only be installed onto 1.6mm MiniCord™ or 3.0 mm 9000 Series cordage containing stiff nylon buffered fibers. The SC connector will not function properly when installed onto cordages with soft PVC buffered fibers.
2.0 Precautions

- Safety glasses should be worn at all times while performing the installation procedures.
- Avoid skin contact with epoxy 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 Isopropyl Alcohol (>91% 2-Propanol + water).
- It is recommended that you use the E-Series Ultrajet* from Chemtronics*, Inc. when canned air is required.

3.0 Cable and Fiber Preparation

3.1 Coated Fiber

Note 1: Use the appropriate procedures for preparing outside plant (OSP) cable. See 636-299-110 for more information on grounding, blocking, and buffering Fiber Optic Cable.

Note 2: Before starting cable and fiber preparation, the curing oven may be set up to save warm-up time later. See Section 6 - Curing Epoxy section for detailed instructions.

Important: Do not attempt to remove the fiber coating until a buffer tube has been placed over the coated fiber. This is to 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

4. **REMOVE FIBER COATING** With the stripper handles open and the buffered tube aligned with the end of the fiber, insert both fiber and buffered tubing through the guide tube opening enough to allow about 0.75 inch (19 mm) of buffer and fiber coating to be removed (Figures 4 and 5).

5. Close the handles and pull the buffer away from the tool with a smooth motion.

6. Wipe the stripped fiber with a wipe dampened with isopropyl alcohol to remove any residual coating.

Figure 4. Heat-Strip Tool - Removing Fiber Coating from Buffered Fiber
7. INSTALL CONNECTOR ON FIBER
Use the procedures outlined in Connector Installation, Section 5.1, in this manual to complete installation of the connector, cure the epoxy, polish and inspect the fiber end.

3.2 Buffered Fiber Cable (Premises/Building)

1. REMOVE OUTER JACKET Ring-cut the outer sheath the required distance from the cable end with the R-4366 sheath-removal tool. IMPORTANT: Do not cut into the fibers. Typical length is approximately 24 to 36 inches (0.61 to 0.91 meters).

Note 1: The exposed buffered fiber should be long enough to:
- Allow for placement into the equipment cabinet
- Allow access to the curing oven, polishing plate, etc.
- Prevent stress on the fiber during the application of the connector.

Note 2: See Table 1, page 1, to verify correct connector choice for cable type.

2. PLACE BUFFER SUPPORT ONTO CABLE Slip the buffer cap and the buffer support onto the buffered fiber.

Figure 6. R-4366 Sheath Removal Tool - Ring-Cut Cable Jacket

3. MEASURE AND MARK THE BUFFERED FIBER 0.75 inch (19 mm) from the end.

4. REMOVING 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.
   - Wipe the stripped fiber once with a wipe dampened with isopropyl alcohol to remove any residual coating.

Figure 7. Install Buffer Support on Buffered Fiber

Figure 8. Heat-Strip Tool - Removing Fiber Coating from Buffered Fiber
5. **SET ASIDE THE PREPARED FIBERS**
   Place the prepared fiber into the grooves of the 971A holder block (provided with the tool kits).

6. **INSTALL CONNECTOR ON FIBER**
   Use the procedures outlined in Connector Installation, Section 5.1, to complete the installation of the connectors, cure the epoxy, polish and inspect the fiber end.

### 3.3 Jacketed Fiber Cable (1.6-mm and 3.0-mm)

(See Table 1, Note 2 on page 1 before proceeding)

1. **PLACE CABLE SUPPORT AND CRIMP SLEEVE ONTO CABLE**
   Slip the cable support and the crimp sleeve onto the cable.

**Note:** If terminating 1.6-mm MiniCord™ cable, use the crimp sleeve provided in the D-182919 Kit.

**Figure 9. Buffered Fiber Stripping Dimensions**

**Figure 10. 971A Holder Block with Buffered Fiber**

**Figure 11. Cable Support and Sleeve on Single Fiber Cable**

2. **MEASURE AND MARK CABLE**
   Using either a scale or template, measure and mark the cable 1.35 inches (34.3 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. Stripping Outer Jacket of Single Fiber Cable**

4. **INSERT SHEATH TUBE INTO CABLE JACKET**
   - For 3.0-mm cable, insert the sheath tube over the buffered fiber and into the cable jacket.

**Figure 13. Sheath Tube Insertion 3.0 mm**
5. **CUT STRENGTHENING YARN** With the strengthening yarn separated into two equal size bundles, use scissors to trim strands 0.25 inch (6.4 mm) from edge of outer jacket. Flare yarn evenly all around the cable.

![Figure 14. Cutting Strengthening Yarn - Single Fiber Cable](image1)

6. **MEASURE AND MARK BUFFERED FIBER** Measure and mark the buffered fiber 0.75 inch (19 mm) from the end of the buffered fiber.

7. **REMOVING 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 handles and wait 6 to 10 seconds for softening of buffer to occur. Pull fiber from tool with one smooth motion.
   - Wipe stripped fiber once with a wipe dampened with isopropyl alcohol to remove any residual coating.

![Figure 15. Heat-Strip Tool - Removing Buffer and Fiber Coating](image2)

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8. **SET ASIDE PREPARED CABLE** Place the prepared cable into the grooves of the 971A holder block provided with the tool kit.

9. **INSTALL CONNECTOR ON FIBER** Use the procedures outlined in Connector Installation, Section 5.2, to complete installation of the connector, cure the epoxy, polish and inspect the fiber end.

![Figure 17. 971A Holder Block with Jacketed Fiber Cable](image3)

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**RECOMMENDED DIMENSIONS FOR 1.6-mm MiniCord™ AND 9000 SERIES CORDAGE**

The recommended dimensions for the prepared cable and fiber are shown in Figure 17.

![Figure 16. Recommended Dimensions for MiniCord™ and 9000 Series Cordage](image4)
4.0 Epoxy Preparation

The epoxy package is furnished with the consumable kit. See the ordering information in the back of this manual.

4.1 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.

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.

5.0 Connector Installation

5.1 Connector – Buffered Fiber Assembly

1. PLACE CONNECTOR IN THE 1510C CONNECTOR HOLDER Hold the connector towards a light and check to make sure the hole in the connector tip is clear of foreign matter. Use music wire (furnished) to clear the hole if necessary. Place the connector into the 1510 Connector Holder.

2. INJECT EPOXY INTO THE CONNECTOR TIP

- Insert the tip of the syringe through the tubing in the back of the connector until it bottoms.
- Slowly inject epoxy into the connector until a small bead appears on the connector tip.
- When the epoxy forms a small bead on the tip, maintain pressure on the plunger and slowly withdraw the syringe. (Note: Do not fill the plastic tubing with adhesive. Do not allow the adhesive to get onto the connector housing components.)
3. APPLY EPOXY TO FIBER AND BUFFER Using the syringe, apply a thin coating of epoxy to the fiber and 0.1 inch (2.5 mm) of the buffer.

4. INSERT FIBER INTO CONNECTOR Insert the fiber through the connector, carefully feeling for the opening in the tip. When the fiber is seated, pull it back slightly and watch for movement at the tip to make sure the fiber has not been broken. Reseat the fiber into the connector making sure the buffer is completely seated against the ceramic.

5. INSTALL BUFFER SUPPORT Slide the buffer support onto the back of the connector.

Important: Use only the connector holder 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.

5.2 Connector – Jacketed-Fiber Cable Assembly (1.6-mm and 3.0 mm)

1. PLACE CONNECTOR IN 1510C CONNECTOR HOLDER Hold the connector towards a light and check to make sure the hole in the connector tip is clear of foreign matter. Use music wire (furnished) to clear the hole if necessary.

2. INJECT EPOXY INTO THE CONNECTOR TIP
   - Insert the tip of the syringe through the tubing in the back of the connector until it bottoms.
   - Slowly inject epoxy into the connector until a small bead appears on the connector tip.
   - When the epoxy forms a small bead on the tip, maintain pressure on the plunger and slowly withdraw the syringe. (Note: Do not fill the plastic
3. **APPLY EPOXY TO FIBER AND BUFFER** Using the syringe, apply a thin coating of epoxy to the fiber and 0.1 inch (2.5 mm) of the buffer.

4. **INSERT FIBER INTO CONNECTOR**

   Insert the fiber into the connector. Rotate the connector carefully feeling for the opening in the tip. When the fiber is seated, pull it back slightly and watch for movement at the tip to make sure the fiber has not been broken. **Reseat the fiber into the connector so the outer jacket butts against the connector barrel.**

5. **INSTALL CRIMP SLEEVE** Slip the crimp sleeve over the outer jacket and trap the strengthening yarn between the connector housing and the sleeve.

6. **Before crimping, make sure the sleeve is fully seated on the cable retention member.** Align the crimp sleeve with the “SC” cavity of the 1510B Crimping Tool and squeeze the tool handles until they release.

   For 1.6-mm MiniCord™ cable, use the crimp sleeve provided in the D-182919 Kit. Align the crimp sleeve with the “SC” cavity of the 1510B Crimping Tool and squeeze the crimping tool handles until they release.

7. **INSTALL CABLE SUPPORT** Snap the cable support onto the connector to complete the pre-curing assembly. The assembly is now ready to be placed into the curing oven.
6.0 Curing Epoxy, Cleaving and Polishing

6.1 Curing 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. *(Note: If terminating 1.6mm MiniCord cable, place the Heat Tube Assembly Fixtures into the ports of the oven.)*

![Figure 30. Heat Tube Assembly Fixtures](image)

2. **PLACE CONNECTOR INTO OVEN** Place the connector and holder assembly into one of the oven ports. Cure for 10 minutes. Connectors with 1.6mm MiniCord cable will be inserted into the Heat Tube Assembly Fixtures.

![Figure 31. Place Connector into Oven](image)

3. **PLACE CONNECTOR INTO 971A HOLDER BLOCK** After 10 minutes of curing time, remove the assembly from the oven and place it into one of the ports in the 971A holder block to cool. Remove micro clip from buffer support after connector has cooled.

![Figure 32. Place Connector into 971A Holder Block](image)

6.2 Cleaving the Fiber

**SCORE THE FIBER** Remove the 1510C holder from the connector. Using one or two strokes with the cleaving tool, score the fiber close to the crest of the epoxy bead.

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

Using a gentle straight pull, remove the exposed fiber. If the fiber does not pull off with a gentle pull, rescore and try again.

![Figure 33. Scoring the Fiber](image)
6.3 Polishing SC Connector Ends

Caution: Contaminants on polishing materials can cause scratches on the end face of the fiber/ferrule. Throughout the entire polishing process, keep work area and all polishing materials clean.

Note 1: Table 2 provides a quick reference for polishing. The Universal Rubber Polishing Pad (300 472 644) must be used to insure acceptable optical performance and end-face geometry.

**Step 1. Remove Fiber Stub**

a. In one hand, hold one sheet of Type G polishing paper (dull side down).

b. In the other hand, hold the connector with the tip pointing upward.

   **Note:** When performing the following step, be careful not to break the fiber stub.

c. Air polish using light circular motions about 1 inch in diameter to carefully polish off the fiber stub.

![Figure 34. Air Polish Connector](image)

**Step 2. Remove Excess Epoxy**

a. Use canned air to clean the back and front of a piece of Type G polishing paper (green).

b. Saturate a wipe with isopropyl alcohol (>91% 2-propanol + water).

c. Obtain a 5" diameter Universal Polishing Pad (300 472 644) and a 1510A1 Polishing Tool.

d. Clean the (unmarked) shiny side of the rubber pad and the polishing tool with the saturated wipe.

e. Use canned air to blow the rubber pad and polishing tool dry.

f. Insert the SC connector into the 1510A1 polishing tool.

![Figure 35. Polishing Tool](image)

g. Stack four, 3-mil mylar spacers (clear) on the rubber pad.

h. Place a sheet of Type G polishing paper (green), dull side up, on the spacers.

i. Gently place the polishing tool and connector onto the polishing paper.

   **Note:** In the following step, you should **not** feel any drag between the fiber and the paper. (If you do, repeat Step 1) Start with light pressure and use figure-8 strokes that are approximately 2 inches high and 1 inch wide. The figure-8 strokes must be well rounded to ensure complete removal of the epoxy from the end of the ferrule.

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i. Using moderate pressure, polish the
connector for 45 figure-8 strokes. Move
to an unused area of the paper for each
connector being polished.
Approximately six connectors may be
polished on each sheet of Type G paper.

_Danger:_ Optical fibers may emit
radiation if the far end is connected with
a working laser or light-emitting diode
(LED). Never view the fiber end of a
cable or plug with the naked eye or any
optical instrument until absolute
verification is established that the fiber
is disconnected from any laser or LED
source.

Note: If excess epoxy is found,
continue to use Type G polishing paper
(green) to remove the excess epoxy.
Also, be sure there is no epoxy on the
beveled edge of the connector ferrule.
Step 2 concludes the polishing
procedure for multimode fibers. Step 3
is to be performed for singlemode fibers.

j. Using a 7X magnifier or microscope
supplied in the 1032B5 or 1032B6 Kit,
check the tip of the ferrule. No excess
epoxy should surround the fiber.

Table 2. SC Connector Polishing Overview (Epoxy)

<table>
<thead>
<tr>
<th>Step</th>
<th>Polishing Materials</th>
<th>No. of Figure-8 Strokes</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 (SM &amp; MM)</td>
<td>Type G (green)</td>
<td>As Required</td>
<td>Air polish to remove fiber stub.</td>
</tr>
<tr>
<td>2 (SM &amp; MM)</td>
<td>Type G (green) placed over four spacers (clear) over 5” dia. Rubber Pad (300 472 644)</td>
<td>45, then as required</td>
<td>Dry polish to remove epoxy.</td>
</tr>
<tr>
<td>3 (SM Only)</td>
<td>Type M paper (white) placed over four spacers (clear) over 5” dia. Rubber Pad (300 472 644)</td>
<td>10</td>
<td>Wet polish. Wet paper with distilled water.</td>
</tr>
<tr>
<td>Repair polish, only if needed</td>
<td>Type F (yellow) placed over four spacers (clear) over 5” dia. Rubber Pad (300 472 644)</td>
<td>5 strokes, then as required to remove flaw (10 strokes max.)</td>
<td>Dry polish. For singlemode fibers, after flaw is removed, repeat Step 3</td>
</tr>
</tbody>
</table>

Figure 36. Polishing Connector

a. Remove the Type G paper and place a
sheet of Type M paper (white) over the
the four spacers (clear), on the rubber
pad.

Note: Step 3 is critical for excellent
return loss.

b. Dampen the sheet with distilled water
(do not flood). Remove the connector
from the polishing tool and use the tool
to spread the water over the paper using
a few strokes.

c. Place the connector back into the
polishing tool and buff polish the
connector using 10 figure-8 strokes,
approximately 2 inches high and 1 inch
wide, using moderate pressure.

d. Clean fiber end with a wipe dampened
with water, then with a second wipe
dampened with alcohol.
7.0 Inspection

7.1 Using Microscope to Inspect Fiber

1. ATTACH CONNECTOR TO MICROSCOPE See Precautions 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 epoxy 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. If the fiber is unacceptable, this fiber end must be repaired or reterminated.

3. If the connector is not to be used immediately, cover the end with the protective cap.

7.2 Repairs

1. Place a sheet of Type F paper (yellow) over four spacers (clear) placed over the Universal Rubber Polishing Pad (300 472 644).

2. Using firm pressure, polish the connector 5 strokes or until the flaw has been removed; however, do not exceed 10 strokes to avoid over polishing the connector. This concludes the repair procedure for multimode connectors. Repeat Step 3 in Section 6.3 for singlemode connectors.

Note: Type F paper (5 sheets) is available as comcode 108601469

7.3 Snap On Connector Grip

Snap the connector grip onto the polished assembly and cover the end of the connector with the protective cap. This completes the procedure.

Figure 37. Fiber End Views (Microscope)
8.0 Interconnecting with SC Fiber Optic Connectors

Several interconnecting couplings are available for joining the SC Fiber Optic Connectors. See Ordering Information in this manual.

8.1 Cleaning Connector and Coupling

1. **CLEAN END OF CONNECTOR TIP**
   Clean the end and sides of the connector ferrule with a wipe dampened with isopropyl alcohol.

   **Important:** If the connector tip is not thoroughly cleaned, the signal performance will be affected.

2. **CLEAN INTERIOR OF COUPLING**
   Use pipe cleaners saturated with isopropyl alcohol to remove debris from the interior of the coupling. *This should be done only if necessary.*

   Using canned air, remove any dust particles from the interior of the coupling.

8.2 Installing Coupling on SC Connectors

1. **INSTALL COUPLING**
   Install the SC connectors onto the coupling by aligning the key on connector grip with the slot in the coupling. Complete the connection by pushing the connectors into the coupling.

   **Figure 40. SC Connectors Coupled**

2. If a high-loss condition exists, use canned air to reclean the interior of the coupling, and reinstall the coupling as just described.

3. When doing rearrangements or reinsertions of an SC connector, blow any dust from the coupling using canned air. Clean the connector tip with a wipe dampened with isopropyl alcohol and push the connector onto the coupling.
9.0 Ordering Information

9.1 Tool Kits

**1032B5 Tool Kit** (Comcode 106 705 213) – Contains the following tools and materials for assembly of ST® II, ST® II+, and SC Fiber Optic Connectors.

<table>
<thead>
<tr>
<th>Kit Quantity</th>
<th>Description</th>
<th>Replacement Comcode</th>
<th>Replacement Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1510B Crimping Tool</td>
<td>106 918 998</td>
<td>1 Tool</td>
</tr>
<tr>
<td>1</td>
<td>300B Microscope</td>
<td>104 412 077</td>
<td>1 Microscope</td>
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<tr>
<td>1</td>
<td>1510A1 Polishing Tool</td>
<td>108 237 710</td>
<td>1 Tool</td>
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<tr>
<td>12</td>
<td>600B Connector Holders</td>
<td>107 118 549</td>
<td>12 Holders</td>
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<td>1</td>
<td>700A Stripping Tool</td>
<td>104 278 478</td>
<td>1 Tool</td>
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<td>1</td>
<td>1026A Heat-Strip Tool</td>
<td>105 514 764</td>
<td>1 Tool</td>
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<td>2</td>
<td>971A Holder Blocks</td>
<td>104 229 398</td>
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<tr>
<td>1</td>
<td>975A Cleaving Tool</td>
<td>103 808 770</td>
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<td>Scissors</td>
<td>105 257 364</td>
<td>2 Scissors</td>
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<td>6-inch Scale</td>
<td>105 257 356</td>
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<td>Alcohol Bottle</td>
<td>105 257 463</td>
<td>2 Bottles</td>
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<td>Glass Plate</td>
<td>105 075 618</td>
<td>2 Plates</td>
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<td>1</td>
<td>Sheath Removal Tool (R-4366)</td>
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<td>1 Tool</td>
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<td>1</td>
<td>Instruction Manual</td>
<td>Contact OFS Rep.</td>
<td>1 Manual</td>
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<td>Micro Clips (1043A)</td>
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<td>15 Micro Clips</td>
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<td>200A Curing Oven</td>
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<td>1 Oven</td>
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<td>12</td>
<td>1510C SC Connector Holder</td>
<td>106 919 004</td>
<td>12 Fixtures</td>
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<td>2</td>
<td>Modified SM/MM SC Grips</td>
<td>107 480 022</td>
<td>10 Grips</td>
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<tr>
<td>1</td>
<td>Rubber Polishing Pad</td>
<td>106 978 992</td>
<td>1 Pad</td>
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<td>1</td>
<td>1039A Cut-Length Template</td>
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<td>5 Templates</td>
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</tr>
<tr>
<td>1</td>
<td>7X Eye Loupe</td>
<td>Obtain Locally</td>
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**1032B6 Tool Kit** (Comcode 106 919 012) – 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. Replacement Comcode for the 200A1 oven is 105 537 690 and is replaced in quantities of one each.

**Universal Rubber Polishing Pad** (Comcode 300 472 644) -- one 5” diameter rubber polishing pad for polishing pre-radiused LC, SC, and ST connectors.

**Heat Tube Assembly** (Comcode 108 261 835) – The Heat Tube Assembly is used with the 200A curing oven for curing ST II+, SC, and LC connectors terminated on to MiniCord cable. The Heat Tubes come in quantities of 6 when ordered.
9.2 Consumables

D-181755 Kit (Comcode 105 052 047) – Contains the parts required to make a transition from ribbon or LIGHTPACK® bundle to individually buffered fibers.

Universal Polishing Kit (Comcode 300 472 651)

Note: Kit contains enough supplies to field polish 100 singlemode or multimode connectors.

Kit Quantity Description
1 Package Wipes
15 Syringes Syringes
25 Tips Dispensing Tips
20 Sheets Type G Polishing Paper (green) 6 by 6 inches (152 by 152 mm)
10 Sheets Type M Polishing Paper (white) 5” dia. disc (127 mm dia.)
5 Sheets 3-mil Mylar Spacer (clear) 6 by 6 inches (152 by 152 mm)

Universal Polishing Kit for Multimode Only (Comcode 300 486 552)

Note: Kit contains enough supplies to field polish 100 multimode connectors.

Kit Quantity Description
1 Package Wipes
15 Syringes Syringes
25 Tips Dispensing Tips
20 Sheets Type G Polishing Paper (green) 6 by 6 inches (152 by 152 mm)
5 Sheets 3-mil Mylar Spacer (clear) 6 by 6 inches (152 by 152 mm)

Type G Paper (Comcode 300 472 669) --- Contains 20, 6”x6” sheets of (green) Type G Polishing Paper

Type M Paper (Comcode 300472677) --- Contains 10, 5” diameter sheets of (white) Type M Polishing Paper

Epoxy Kit (Comcode 105 489 355)--- Contains 15 bi-packs of Hysol 0151 heat curable epoxy.

D-182919 MiniCord™ Termination Kit (Comcode 107 983 041) – Contains consumables to terminate MiniCord™ cable.

Kit Quantity Description Replacement Quantity Replacement Comcode
1 Termination Instructions NA Contact OFS Rep.
100 Crimp Sleeves (SC MiniCord™ Cable) 1000 108 327 552
### 9.3 SC Connectors

<table>
<thead>
<tr>
<th>Connector Code</th>
<th>Comcode</th>
<th>Fiber Mode</th>
<th>Ferrule (Zirconia)</th>
<th>Description</th>
<th>Cable Size (mm)</th>
<th>Fiber OD (μm)</th>
<th>Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>P6000A-Z-125</td>
<td>106 917 438</td>
<td>SM</td>
<td>Domed</td>
<td>Plastic</td>
<td>1.6, 3.0</td>
<td>125</td>
<td>Individual</td>
</tr>
<tr>
<td>P6000A-Z-125-100</td>
<td>107 503 856</td>
<td>SM</td>
<td>Domed</td>
<td>Plastic</td>
<td>0.9</td>
<td>125</td>
<td>Bulk</td>
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<td>P6001A-Z-125</td>
<td>106 917 586</td>
<td>SM</td>
<td>Domed</td>
<td>Plastic</td>
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<td>125</td>
<td>Individual</td>
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<td>P6001A-Z-125-100</td>
<td>107 503 864</td>
<td>SM</td>
<td>Domed</td>
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<td>P6200A-Z-125</td>
<td>106 917 776</td>
<td>MM</td>
<td>Domed</td>
<td>Plastic</td>
<td>1.6, 3.0</td>
<td>125</td>
<td>Individual</td>
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<tr>
<td>P6200A-Z-125-100</td>
<td>107 503 872</td>
<td>MM</td>
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<tr>
<td>P6201A-Z-125-100</td>
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<td>MM</td>
<td>Domed</td>
<td>Plastic</td>
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<td>125</td>
<td>Bulk</td>
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### 9.4 Couplings (Standard)

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<tr>
<th>Coupling Code</th>
<th>Comcode</th>
<th>Fiber Type</th>
<th>Coupling Type</th>
<th>Color</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>C6000A-4</td>
<td>106 703 200</td>
<td>MM/SM</td>
<td>Simplex</td>
<td>Blue</td>
<td>Snap-in coupling</td>
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<td>C6000A-5</td>
<td>107 022 980</td>
<td>MM/SM</td>
<td>Simplex</td>
<td>Blue</td>
<td>Snap-in coupling</td>
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<td>C6060A-4</td>
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<td>MM/SM</td>
<td>Duplex</td>
<td>Blue</td>
<td>Snap-in coupling</td>
</tr>
<tr>
<td>C6061A-4</td>
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<td>MM</td>
<td>Duplex</td>
<td>Beige</td>
<td>Snap-in coupling</td>
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<tr>
<td>C6070A-4</td>
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<td>Beige</td>
<td>Snap-in coupling</td>
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<tr>
<td>2A1</td>
<td>106 917 263</td>
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<td>Duplex</td>
<td>Black</td>
<td>Quantity of five Duplex Connector Clips</td>
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<tr>
<td>2A1-100</td>
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<td>NA</td>
<td>Duplex</td>
<td>Black</td>
<td>Duplex Connector Clips</td>
</tr>
</tbody>
</table>

### 10. Assistance Information

For more information, contact an OFS Sales Representative.

For fiber optic technical assistance, call 1-888-FIBER HELP (1-888-342-3743).