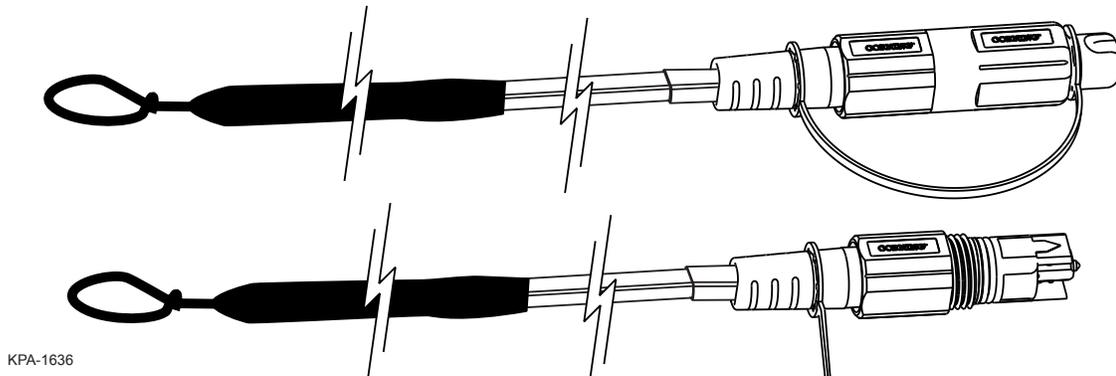


### 1. Planning

This procedure describes a general method for accessing ROC™ Drop Cable hybrid assemblies with pulling grip. ROC Drop Cable hybrid assemblies are outside plant cables with an OptiTap® Connector on one end and an SC APC connector on the other. The OptiTap Connector features a protective cap, which can accommodate a pull line, and is secured against loss by a lanyard. The SC APC connector is captured inside a pulling grip to accommodate a pull line and protect the connector during installation.

### 2. Components

Figure 1 provides a pictorial description of the components of an OptiTap® Preconnectorized Drop Cable.



KPA-1636

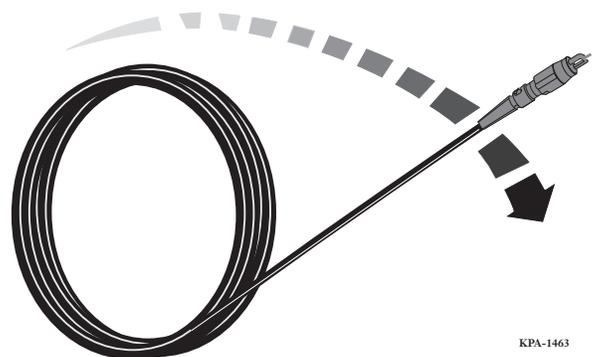
Figure 1

### 3. Unpacking Flat-Profile Drop Cables

OptiTap Preconnectorized Drop Cables are shipped coiled in a box.



**WARNING:** Unrestrained cable ends may cause injury to your eyes or body and can damage the cable, fitting, or fibers if suddenly released from a coil. Wear eye protection and use extreme care when handling a coiled cable assembly which uses flat-drop cable — gently release the energy stored in the cable coil to avoid possible personal injury or damage to the cable or fitting components.



KPA-1463

Figure 2

## 4. Pulling Drop Cable through Duct to Premises

**Step 1:** When pulling through a duct, it is recommended to pull the drop cable from the network access point (NAP) toward the optical network terminal (ONT). Attach the pulling rope to the eye of the protective pulling grip of the cable and pull the cable through the duct to the ONT. Ensure that you do not exceed 50 lbf (pounds force) on the cable.



Figure 3

**NOTE:** If pulling from the ONT to the NAP is required, a pull line can be attached to the eye on the OptiTap® Connector. Ensure that you do not exceed 100 lbf tension on the cable.

**Step 2:** Coil any excess length of the drop cable in the handhole/pedestal.

## 5. Terminating the Drop Cable at the Premises

**Step 1:** Remove the tape at the base of the grip (Figure 4a).

**Step 2:** Slide outer mesh up past heat-shrink tube.

**Step 3:** Remove remaining tape, and pull the ripcord to cut the heat-shrink tube longitudinally (Figure 4b).

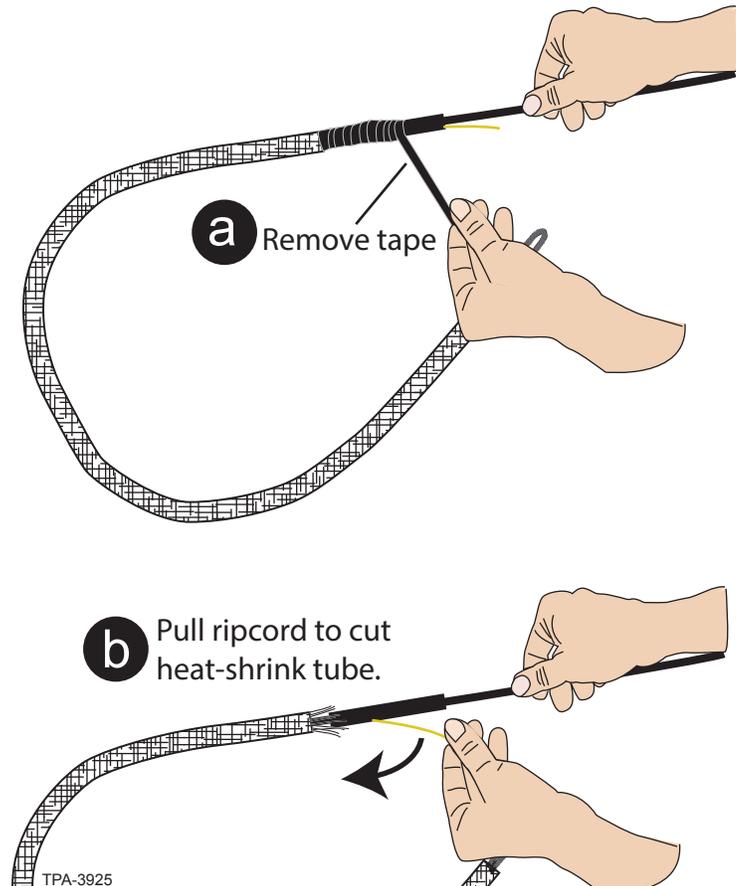


Figure 4

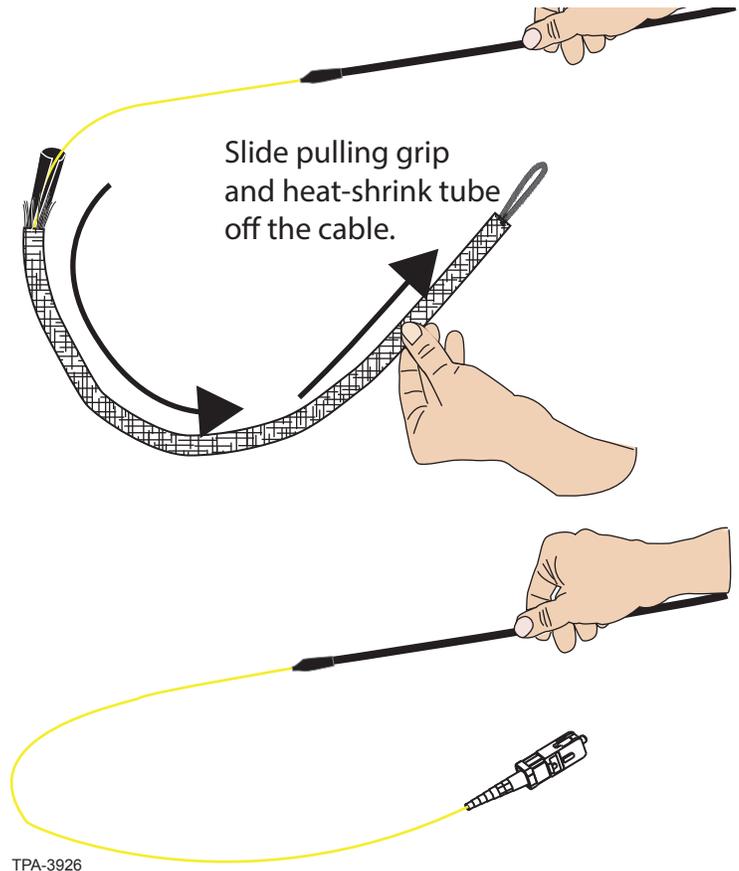
**Step 4:** Remove the pulling grip and heat-shrink tube at the same time to expose the internal cable with the SC APC connector (Figure 5).

**Step 5:** Remove the water-resistant bag from the connector.

**Step 6:** Access the ONT.

**Step 7:** Inspect and clean each adapter and connector per standard company practices before mating.

**Step 8:** Secure and route the internal cable into the ONT as per the ONT manufacturer's recommendations.



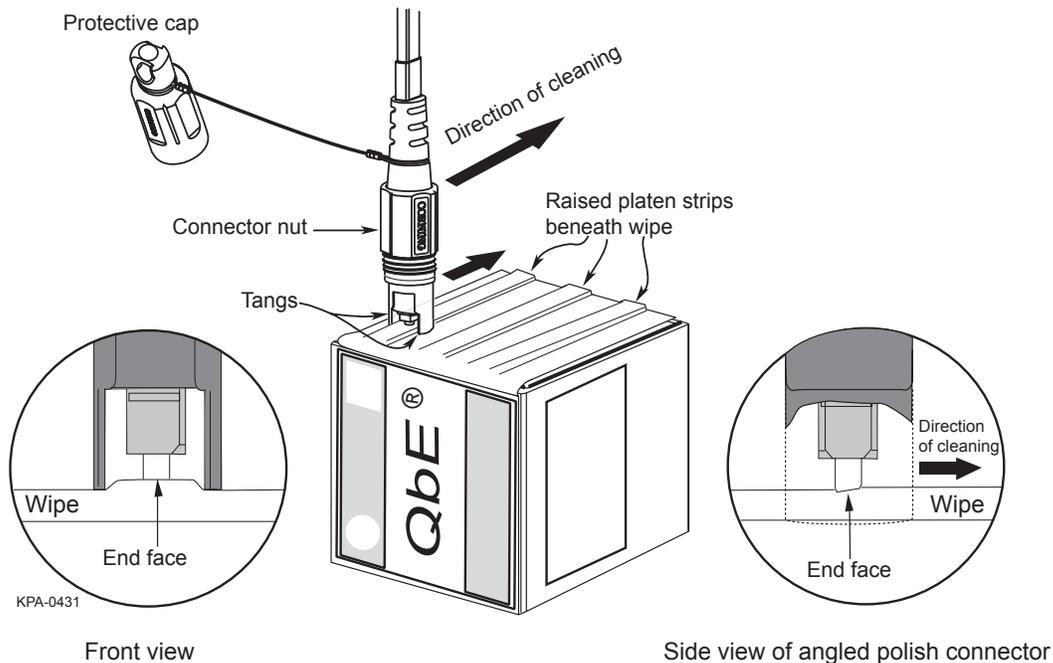
TPA-3926

Figure 5

## 6. Installation

### 6.1 Connecting a Drop Cable to a Terminal

**NOTE:** Use of single-fiber port cleaner (CLEANER-PORT-OTAP) is also approved for cleaning connectors and ports.



KPA-0431

Front view

Side view of angled polish connector

Figure 6

- Step 1:** Remove the protective cap from the OptiTap® Connector by rotating the connector nut.
- Step 2:** Align the connector keys so that the connector ferrule end face is centered on one of the three raised strips on the platen. On APC connectors, make sure that the angled end face is facing the direction of the cleaning (Figure 6).
- Step 3:** Hold the end face of the connector at 90° to the surface.
- Step 4:** Pull the connector end face lightly over the surface away from the wipe's fold in a smooth linear motion (Figure 6).

## 6.2 Clean OptiTap Adapters

**NOTE:** Use of single-fiber port cleaner (CLEANER-PORT-OTAP) is also approved for cleaning connectors and ports.

- Step 1:** Remove the protective plug from the OptiTap Adapter where the connector will be mated (Figure 7).
- Step 2:** Insert a dry swab into the adapter and make three 360° twists with light pressure against the connector end face. Dispose of the swab after one use.

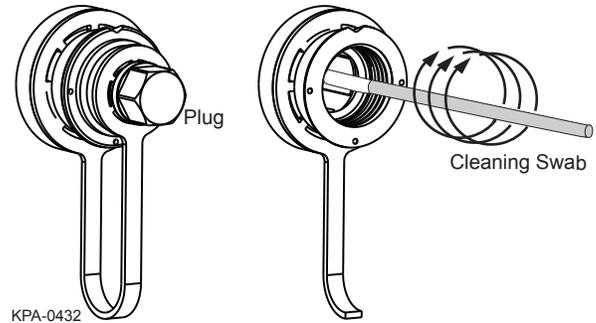


Figure 7

## 6.3 Mate Connectorized Drop Cable

- Step 1:** Insert the connectorized drop cable into the OptiTap Adapter. Orient the arrow on the connector tang with the notch in the adapter (Figure 8).
- Step 2:** Screw the connectorized drop cable connecting hardware into the OptiTap Adapter.
- Step 3:** Screw the OptiTap Adapter plug into the connectorized drop cable protective cap (Figure 8).
- Step 4:** Repeat Section 6 for all connectorized drop cables.

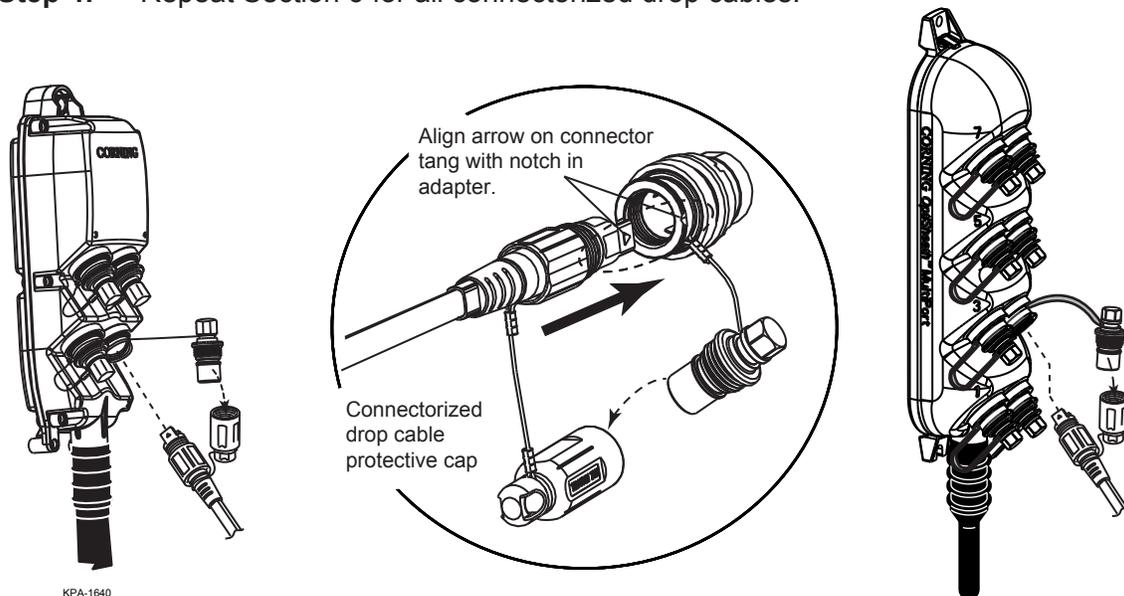


Figure 8

## 7. Mating Connectorized Drop Cable to the Terminal after Initial Installation

After the initial installation, the sealed terminal may become covered with mud and dirt due to normal groundwater or flooding. Although these contaminants on the outside of the housing will not affect the performance of the unit, care must be taken when removing the OptiTap® Adapter plugs for drop cable installation to prevent loose dirt particles from entering the adapter sleeve and contaminating a connector end face.

**NOTE:** Only use clean water to wash the outer housing. Do not use any type of solvent.

**Step 1:** Remove any cable ties or hardware securing the terminal and stubbed cable.

**IMPORTANT:** When handling the terminal, support the terminal and its cable stub to prevent kinking the cable stub at the terminal entrance.

**Step 2:** For light dirt and dust, soak a rag or towel with clean water and gently clean the housing. Wipe dry with a clean, dry rag or towel. For heavy, caked-on mud and dirt, spray the terminal with low-pressure water such as from a garden sprayer. A soft-bristled brush may also be used to lightly scrub the housing to loosen the mud and dirt. Remove any remaining dirt with a water-soaked rag or towel and wipe dry with a clean, dry rag or towel.

**Step 3:** Although the unit should now be generally clean, there may still be dirt particles around the OptiTap Adapter plugs. Therefore, before removing a plug, first turn the terminal so that the adapters face downward and then unscrew the selected plug. In this way, any stray dirt particles will fall to the ground instead of falling into the adapter.

**Step 4:** Use the Corning Cable Systems Optical Access Connector Cleaning Kit as described in Section 6 to clean the OptiTap Drop Cable Assembly and the OptiTap Adapter plugs.

**Step 5:** Keep the adapters facing down while inserting and tightening the lead-in cable assembly.

**Step 6:** Insert the connectorized drop cable into the OptiTap Adapter. Orient the arrow on the connector tang with the notch in the adapter (Figure 8).

**Step 7:** Screw the connectorized drop cable connecting hardware into the OptiTap Adapter.

**Step 8:** Screw the OptiTap Adapter plug into the connectorized drop cable protective cap.

**Step 9:** Repeat Steps 1 through 8 for all connectorized drop cables.

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