

Figure 1

1. INTRODUCTION

The OCC Fan-Out kits are designed to be installed onto jacketed distribution style fiber optic cable, 250µm or 900µm buffered fibers, with aramid strength members.

NOTE: Dimensions are in imperial units. Figures are not drawn to scale.

CAUTION: To avoid poor performance, use **ONLY** Optical Cable Corporation components. Other manufacturer's fan-out kits **ARE NOT** compatible with OCC's product.

2. DESCRIPTION

Each kit contains the components shown in Figure 1. The furcation tubing is included in the kit.

3. HANDLING

To avoid personal injury, **NEVER** look into the end of terminated or unterminated optical fibers.

Laser radiation is invisible but can damage eye tissue.

Always wear protective eyewear with side shields to prevent any flying shards from getting near your eyes.

4. TOOLS AND MATERIALS

The following tools and materials are necessary for the installation of the fan-out kit onto the cable.

TOOLS	
OCC PART #	DESCRIPTION
418-0003-000	Razor Blade
YPT-45-344	Aramid yarn shears
-	Phillips Screw Driver
M22520/5-01	Daniels Crimp Tool Frame
M22520/5-53	.454" Hex Die Set
YPT-VDV200-010	Klein Crimp Tool Frame
YPT-VDV212-034	.350" Hex Die Set

5. ASSEMBLY PROCEDURE

Assemble the connector using a laminar flow table in a clean environment meeting the requirements of International Organization for Standardization (ISO) 14644-1 (Class 5), "Cleanrooms and Associated Controlled Environments, Part 1." Make sure that all components are free from contamination.

1. Slide any required labels onto the cable first. Then, slide the Cord Grip as shown in Figure 2 onto the cable. Make sure to orient each component as shown.



Figure 2

2. Using the razor blade, strip and remove the jacket of the cable to the dimension specified in Figure 3.

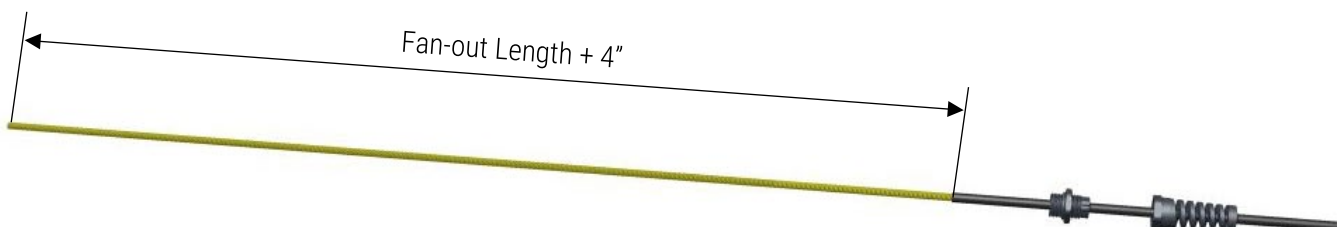


Figure 3

3. Feed the fibers and aramid yarn through the crimp retainer until it bottoms on the cable jacket.



Figure 4

4. Using the shears cut the aramid yarn within 1/4" of the top of the crimp retainer as shown in Figure 5.



Figure 5

5. Spread out the aramid yarn evenly around the head of the crimp retainer (Figure 6a) and slide the crimp sleeve over the aramid yarn (Figure 6b).



Figure 6a



Figure 6b

6. Using the appropriate hex crimp tool, crimp the sleeve down.



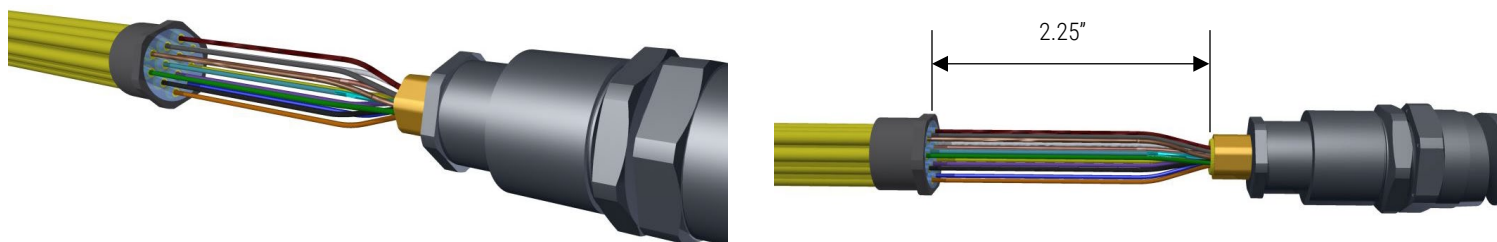
Figure 7

Fiber count	Hex Die Size
12	.350"
24	.454"

7. Tighten the back nut of the cord grip to the crimp retainer. (Figure 8b)
Tighten the tail of the cord grip onto the back nut. (Figure 8c)

*Figure 8a**Figure 8b**Figure 8c*

8. **Make sure the fibers are free from any contamination.**
Gently insert the fibers into the furcation tubing. Feed the fibers as straight as possible, making sure to avoid tangling the fibers.
Leave approximately a distance of 2.25" between the crimp sleeve and the furcation puck.
When installed on a 24 fiber cable, repeat step with a second set of furcation tubing.

*Figure 9*

9. Install the crimp retainer and the furcation puck into the hex grooves of the male clamshell. Make sure all the fibers are installed between the prongs of the male clamshell.

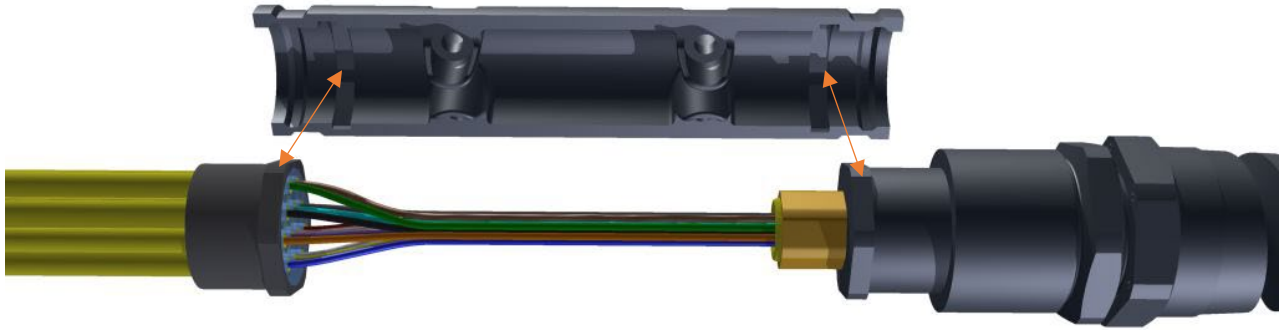


Figure 10a

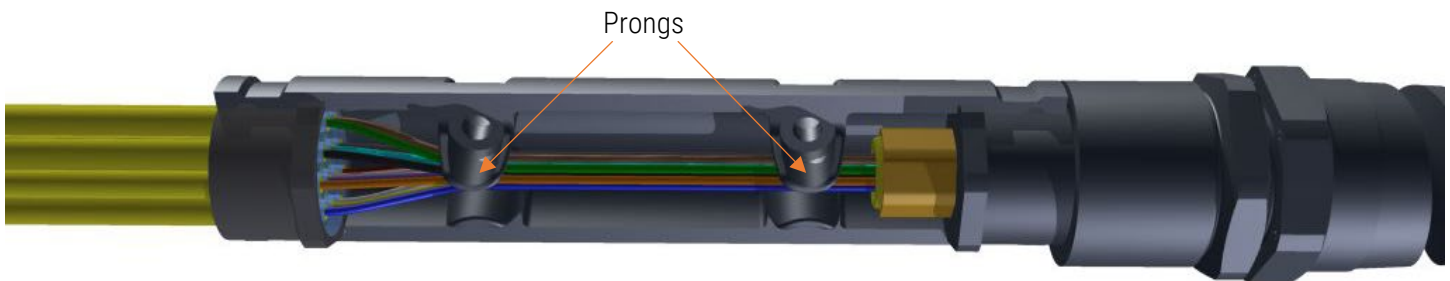


Figure 10b

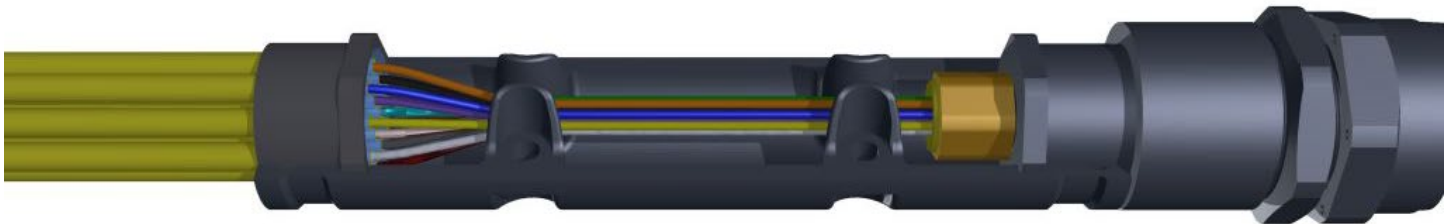


Figure 10c

10. Install the female clamshell over the male clamshell. Make sure the fibers remain between the prongs of the male clamshell.

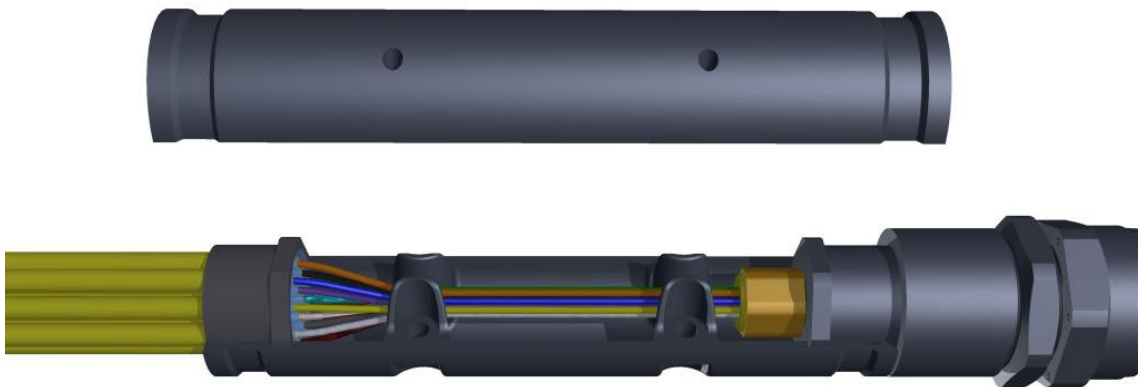
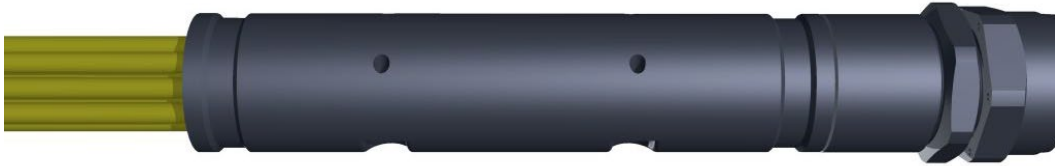


Figure 11a

*Figure 11b*

11. Using a Phillips screwdriver, install the four screws to secure the two clamshells together.

*Figure 12a**Figure 12b: 12-Fiber Version**Figure 12c: 24-Fiber Version*

12. Gently pull on the fibers protruding from the end of the furcation tubing to remove any excess binding inside the clamshells. The fibers are now ready to be terminated.
The product is now complete.

*Figure 13*

6. REVISION SUMMARY

REVISION	CHANGE DESCRIPTION	DATE	APPROVED