FOD-40™
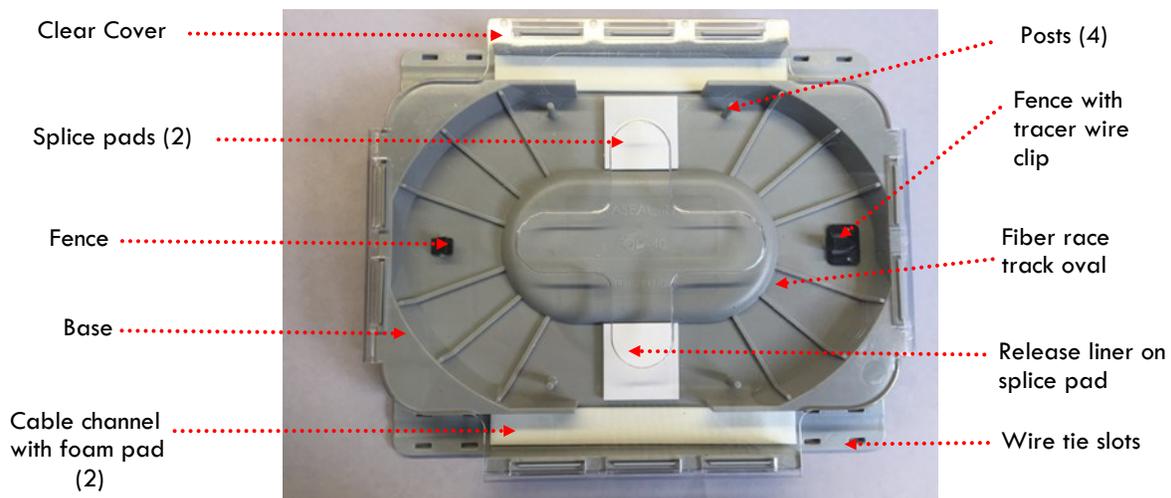# Fiber Optic Drop
Splice Protection Kit
(Patent Pending)

Permanently seal and protect fusion and mechanical fiber optic drop splices.

The FOD-40™ splice kit is designed to be used in direct buried, flower pot and hand-hole applications and can accept flat or round fiber drop cables up to 1/2" in diameter.

⚠️ *Follow all recommended safety precautions and use recommended safety equipment for working with lasers and fiber optic cable.*

Clear Cover
Splice pads (2)
Fence
Base
Cable channel with foam pad (2)

Posts (4)
Fence with tracer wire clip
Fiber race track oval
Release liner on splice pad
Wire tie slots

FOD-40™

Kit comes complete with base, clear cover, tube of encapsulant, manipulation stick, 4 cable ties, 2 foam blocks, foam wrap, and emery paper.
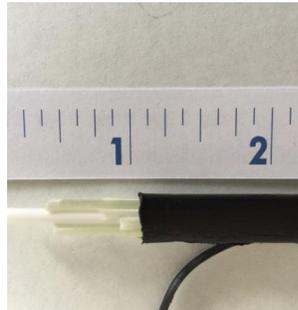**BEFORE YOU START:** Complete splice and assemble kit before mixing encapsulant.
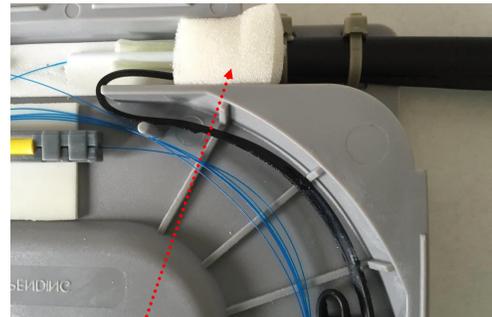**DO NOT** remove tube from clear protective bag until instructed.

Step 1:

Detach tracer/toner wire & remove outer jacket and aramid fibers to desired length of fiber to be exposed. Cut strength members to 1/2" (13mm) from outer jacket. Repeat on all ends to be spliced.

Step 2:

Strip buffer to 1" (25mm) beyond outer jacket and clean fiber.

Step 3:

Wrap the cable end once or twice with the foam wrap. For smaller diameter cables, cut or tear at least 1" length of foam bar and place on top of cable over the foam wrap before installing the cover. Align the end of the strength members with the end of the interior wall as shown. Secure cable using cable ties. Hint: When inserting the wire ties, start by inserting the wire tie in the outside slot from the top, keeping the wire tie head on the top so that the kit lays flat for proper filling.

Step 4:

Wind the fiber ends into the base in an oval pattern in the race track, keeping the fibers between the fences to determine where the fibers will meet to be spliced.

Trim fiber ends to near center of splice adhesive pad, then unwind if needed to trim, clean, cleave, and splice as per standard practice.

Rewind spliced fiber slack back into base keeping the fiber between the fences. The fiber coils should be relaxed, not under tension, and laying flat in the race track.

Insure there are no sharp bends or pressure points and the fiber is in a uniform oval pattern.

Remove the release liner from both splice pads and place the splice flat on the splice pads.

Step 6:
Wipe the inside of the cover clean with fast drying wipe (ex. fiber cleaning alcohol wipe)

Step 7: **Test drop for loss per specifications.**
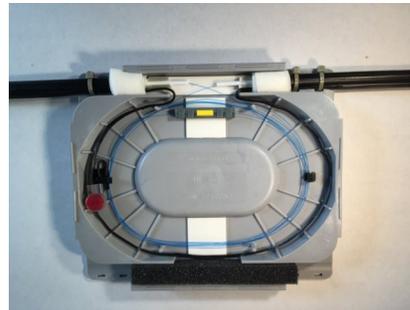
Step 8:

Ensure that all fibers are relaxed and laying flat in the race track between all posts and fences. Press the cover onto the base; pressing firmly until the cover engages with an audible snap. Place on a flat, level surface for filling.

Step 5:

Butt Splice Configuration

In-line Splice Configuration

Trim excess tracer/toner wire and splice with suitable connector. Route tracer/toner wire and secure under fence with clip using care not to disturb or damage fiber. Toner wire and connector should be adjusted to be flush to base.

Install foam blocks properly <u>before encapsulating</u> the kit. For butt splice, cut 2 1" foam pieces and place in unused cable channels. For in-line splice, place 1 foam bar in opposite cable channel.

Step 9:

Properly assembled FOD-40 kit ready for encapsulation with splices held securely on the pressure sensitive pad.

For encapsulation, proceed to "Mixing Chart & Instructions" printed on tube packaging. When filling the kit with encapsulant, slowly move tube back and forth along length and width of the opening to provide for an even fill.

Once filling of splice kit with encapsulant has started, do not move kit until encapsulant has solidified (approximately 3-30 minutes) depending on ambient temperature.