Apex™ Sealed Fiber Optic Splice Closures

What is Apex?

Apex is the next generation of sealed splice closures. They are smaller and easier to use, saving money yet handling today's high-density fiber optic cables. Installation takes seconds, not minutes. With universal splice holder modules that accommodate a wide range of fiber counts, Apex will stand the test of time.

Where can they be used?

Direct bury, handhold, aerial applications or on poles/walls.

What sizes are available?

The Apex X-2 is capable of up to 432 single fusion, 864 mass fusion with standard ribbon, or 3,456 using 200 µm mass fusion with rollable ribbon fiber types (such as AFL's SpiderWeb Ribbon® (SWR®). If using 250 µm fiber, 1,728 fibers is the maximum fiber count.

The Apex X-2S is capable of up to 216 single fusion, 432 mass fusion with standard ribbon, or 1,728 using 200 µm mass fusion with rollable ribbon fiber types (SWR). If using 250 µm fiber, 864 fibers is the maximum fiber count.

Additional sizes will be made available soon.

Apex X-2 Splice Closure

How does Apex handle conventional cable technologies like loose tube, central tube ribbon or loose tube ribbon?

Many conventional style loose tube cables and flat matrix ribbon style cables are available in the market today along with thousands of miles of already installed cable plant that may need servicing down the road. The Apex X-2 closure easily accommodates standard size buffer tube slack in the slack basket. As a leader in All-Dielectric Self-Supporting (ADSS) cables commonly seen in the energy or utility market, extensive work has been accomplished with these cables ensuring success with the Apex closure.

Do you have recommendations for different cables types, fiber counts, etc.?

The engineering team has mocked up a 288 to 288 splice with a 144F branch, along with splicing multiple AFL Titan RTD® flat drop tails all in the same closure, with no issue. For conventional loose tube with 12 fiber tubes, due to the packing density in the basket, we would recommend no more than 288F cables be used. The 432F single fiber capacity should be limited to micro cables with smaller diameter tubes or cables with 24 fibers or more per tube. For flat matrix ribbon such as that used in central tube ribbon or loose tube ribbon designs, we recommend half loading the splice trays to limit congestion in the tray which leads to an 864F capacity in the X-2 and a 432F capacity in the X-2S. Rollable or collapsible ribbon fiber types such as AFL's SpiderWeb Ribbon can utilize the full density of the splice tray for maximum splice density.

How are the splice trays arranged?

When developing Apex, the engineering team's goal was to ease access to splice trays, knowing this has been an issue. The team designed them in a hinging array that automatically lock when tilted up, allowing easy access to splices and slack storage which is underneath the splice trays.

The splice modules are universal and hold up to 18 single fusion, 6 mass fusion or 12 mass fusion double-stacked when using SWR, or 6 mechanical splices as well as devices such as PLC splitters.

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Are Apex parts repairable or replaceable?

All components that could potentially be damaged in the field can be user replaced. For the cable sealing, both the inner base gel and the outer wedge can be ordered separately as needed for maintenance. The dome to base seal O-ring, while captive to the dome, is secured to the dome with several Phillips head plastic screws. If the O-ring becomes damaged, these screws can be removed, and a replacement O-ring installed. Externally, there are replacement kits for both the locking ring and the dome if either are damaged

* These components were tested extensively to resist damage from dropping or heavy impact, even at extreme hot and cold temperatures.

Why should I buy Apex over a competitor's product?

Apex sealed closures save installers and end-users time, lowers costs, improves network reliability and increases usable space.

Where can I find more information on Apex, see a demo unit or request a trial?

Visit our website at www.AFLglobal.com/Apex to see the materials currently available including product spec sheets, installation instructions, videos that demonstrate the features and benefits of Apex and a 3D model to pan, zoom and rotate the product.

To get even more information, reach out to our sales team. On the Apex product web page, click on the "Contact Us" button in the top right to request a quote or find a sales rep. Or visit www.aflglobal.com/Contact/AFL-Sales-Team. Select your region and market to see direct contacts to AFL employees who can assist.