

Fiber Entrance Cabinet

FEC · 6,912F · 24 HD3US trays · Top or bottom entry



Shown: door closed (left) and open with a 6,912F cable entering from the top and 24 x 288F plenum cables leaving through the bottom; one tray slid out for service.

OVERVIEW

One cabinet for a 6,912F entrance splice

The One Optics Fiber Entrance Cabinet takes a single 6,912F ribbon OSP cable, armored or dielectric, and splices it to 24 x 288F or 48 x 144F inside-plant plenum cables. It holds 24 of our HD3US splice trays, 288 fibers each, in four banks of six on full-length HD3US rails.

Top and bottom plates are interchangeable, so the 6,912F entry and the exit cables can be set top or bottom in the field (top entry ships standard). Separate side channels keep the incoming subunits and the outgoing cables apart, with radius-limiting slack spools in the bottom compartment. The cabinet is wall mounted, straight to the wall with no extra brackets: two keyholes in the back wall and two tabs below it take four screws on 16 in centers. A strut mounting kit is available separately.

6,912_F

SPLICE CAPACITY

24
HD3US TRAYS,
288F EACH
44.5 x 21.5

H X W, IN

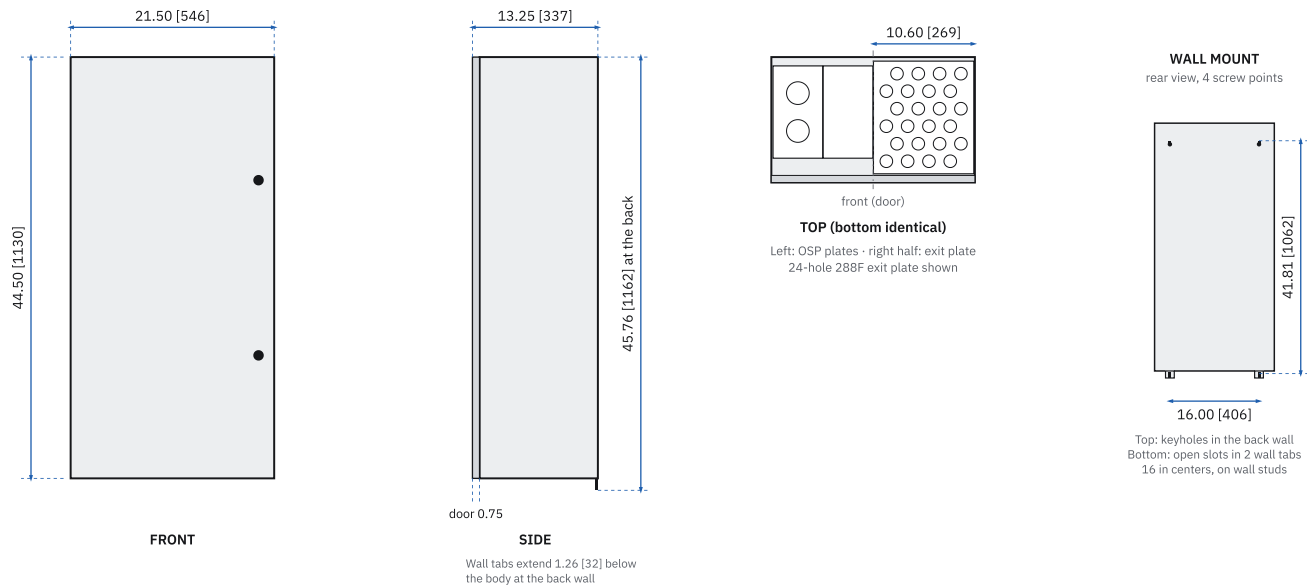
13.25 in

DEPTH WITH DOOR

FEATURES & APPLICATIONS

- ✓ **6,912F in one cabinet:** 24 trays x 288F mass fusion; ships fully populated with trays and plates
- ✓ **HD3US trays** on full-length HD3US rails; trays slide out the front
- ✓ **Top or bottom OSP entry**, straight in through a black liquid-tight cordgrip
- ✓ **Swappable gasketed entry plates** top and bottom; all exit cordgrips on one right-half plate
- ✓ **24 x 288F or 48 x 144F exits;** up to 24 exit cables per side
- ✓ **Separate fiber channels:** OSP subunits left, exit cables right
- ✓ **Slack compartment**, about 14 in tall, with radius-limiting spools
- ✓ **Bend radius 1.18 in [30 mm] or more** on every routed path
- ✓ **Lift-off gasketed door** on left-hand hinges, with 2 quarter-turn latches, padlock hasp and document pocket
- ✓ **Wall mounted:** 4 screw points on 16 in centers, no brackets needed; strut channel kit FEC-UMK sold separately
- ✓ **Aluminum construction**, 0.080 in 5052-H32, dark gray powder coat
- ✓ **2 copper ground bars** top and bottom, plus a door bond strap
- ✓ **Made in USA;** Build America, Buy America (BABA) compliant; compliance letter available on request
- ✓ **Applications:** building and data center entrance rooms, OSP-to-ISP transition splices

DIMENSIONS



Inches [mm]. Door closed. The back mounts flat to the wall; hang points 3.16 [80] below the top and 2.75 [70] in from each side.

SPECIFICATIONS

Splice capacity	6,912F: 24 trays x 288F (12 x 24F ribbons per tray)	Outside H x W x D	44.50 x 21.50 x 13.25 in [1130 x 546 x 337 mm], with door
Trays	24 HD3US, 4 banks of 6; ribbon only; chips take 200 and 250 µm ribbon	Inside H x W x D	44.34 x 21.34 x 12.42 in [1126 x 542 x 315 mm]
OSP cable	One 6,912F ribbon OSP cable, armored or dielectric; top or bottom; cordgrip 1.45-1.73 in [36.8-43.9 mm] OD	Material, finish	5052-H32 aluminum, 0.080 in [2.0 mm]; dark gray powder coat (PMS 425C)
Exit cables	24 x 288F or 48 x 144F plenum ribbon cables; up to 24 per side	Door	Full-height lift-off door, gasketed, left-hand hinges; 2 quarter-turn latches, padlock hasp, document pocket
Fiber management	3.74 in [95 mm] side channels; 14 in slack compartment, spools; 1.18 in [30 mm] min. bend radius	Mounting	Wall, no brackets: 2 keyholes + 2 wall tabs, 16.00 in [406 mm] centers; strut kit FEC-UMK sold separately
Environment, origin	Indoor. Made in USA; BABA compliant, letter on request	Weight	About 85 lb [40 kg] empty; about 120 lb [55 kg] loaded (estimated)
		Grounding	2 copper ground bars on insulators; door bond strap

ENTRY PLATES

PLATE	HOLES	FOR	BUILD	TOP PLATES	BOTTOM PLATES
OSP entry	2 x 2.400 in [60.8 mm], 2 in NPT	6,912F OSP	Top in, 24 x 288F	OSP · Blank · Blank exit	Blank · Blank · Exit 1 in
Blank	No holes	Spare, left	Top in, 48 x 144F	OSP · Blank · Exit 3/4 in	Blank · Blank · Exit 3/4 in
Exit, 1 in	24 x 1.326 in [33.7 mm], 1 in NPT, staggered	24 x 288F	Bottom in, 24 x 288F	Blank · Blank · Blank exit	OSP · Blank · Exit 1 in
Exit, 3/4 in	24 x 1.109 in [28.2 mm], 3/4 in NPT	24 x 144F	Bottom in, 48 x 144F	Blank · Blank · Exit 3/4 in	OSP · Blank · Exit 3/4 in
Blank exit	No holes	Spare, right	Left to right. Top and bottom take the same plates: two 5.25 x 9.75 in [133 x 248 mm] OSP positions on the left, one 10.60 x 11.90 in [269 x 302 mm] exit plate on the right half. Up to 24 exits per side.		
Installation note: the 1 in exit-plate cordgrips are pre-assembled on the removable plate;					

INSIDE THE CABINET



48 x 144F build: 24 exits through the top feed trays 1-12, 24 through the bottom feed trays 13-24. Tray 10 slid out.

FIBER PATH

- **OSP in:** the 6,912F enters straight through its cordgrip and is clamped to a saddle post. The sheath is removed about 3.5 in inside the cabinet.
- **Slack:** the 16 subunits run down the back of the left channel and loop once around two radius-limiting spools in the bottom slack compartment (about 14 in tall).
- **To the trays:** the subunits rise in the left channel and are split under heat-shrink sleeves into protective tubing, one leg per tray, entering at the tray's front-left corner.
- **Exits:** each plenum cable enters straight through its own cordgrip; its buffer tube sweeps into the right channel and enters its tray at the front-right corner.
- **Service:** every tray slides out the front with its fiber attached.
- **Bend radius:** 1.18 in [30 mm] or more on every path. The 6,912F itself must not bend inside the cabinet; plan its sweep and service loop outside.

MOUNTING

Wall

No brackets needed. Set four 1/4 in screws on 16 in centers from the included drilling template, hang the two keyholes in the back wall over the top screws, let the cabinet drop so the lower screws enter the slots in the wall tabs, then tighten all four. Wall fasteners are not supplied; choose them for the wall construction and the loaded weight.

Strut channel (accessory FEC-UMK, ordered separately)

Two identical 30 in hanger rails bolt across two 1-5/8 in strut channels, 18 to 28 in apart, with 1/2 in hardware (supplied). The cabinet hangs on the rail studs through the same four wall-mount points.

Caution: about 85 lb empty and 120 lb fully loaded. Lift and hang with two people or a mechanical lift. Remove the trays before lifting and refit them once the cabinet is mounted.

ORDERING

FEC-6912 One part number for both exit builds; note the exit configuration on the order: 24 x 288F, or 48 x 144F (24 top / 24 bottom). Top and bottom plates are interchangeable, so the 6,912F entry and the exit cables can be set top or bottom in the field (top entry ships standard).

PART NUMBER	DESCRIPTION
FEC-6912	Cabinet, fully populated: 24 HD3US trays, rails, spools, entry and exit plates. Exit configuration, noted on the order: 24 x 288F, or 48 x 144F (24 top / 24 bottom)

ACCESSORIES, ORDERED SEPARATELY

FEC-UMK	Strut mounting kit: 2 hanger rails with studs, 1/2 in strut hardware and flange nuts, for two 1-5/8 in strut channels 18-28 in apart
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Made in USA. BABA compliant; compliance letter available on request. Contact sales for pricing. Test data and certificate of conformance available on request. Specifications subject to change. Rev A · 2026-10.