

Made in USA enclosures for public networks

Rack, wall and entrance enclosures built in Henderson, NV, BABA self-certified product lines and configure-to-order cable assemblies for federal, state and municipal networks, military installations and public safety.

FEDERAL & STATE AGENCIES

MUNICIPALITIES

MILITARY INSTALLATIONS

PUBLIC SAFETY

INTEGRATORS



FEC-6912 Fiber Entrance Cabinet, HD9U stack and WMHD6X wall mount, all Made in USA.

OVERVIEW

Domestic enclosures, documented compliance

Public networks connect agency data centers, emergency operations and dispatch centers, police and fire stations, municipal buildings and base facilities, often under procurement rules that ask where products are made. One Optics builds its rack, wall and entrance enclosures in Henderson, Nevada, self-certifies its product lines to Build America, Buy America (BABA) with the exceptions listed on page 4, and builds every assembly to the part number on the specification.

6

MADE IN USA
ENCLOSURE
FAMILIES

BABA

SELF-CERTIFIED ·
LETTER ON REQUEST

6,912^F

OSP CABLE PER FEC-
6912

1,728^F

SPLICES IN 3U
(HD3US)

Made in USA enclosures

HD1U, HD3U (including HD6U and HD9U stacks), HD3US, WMHD2X, WMHD6X and the Fiber Entrance Cabinet (FEC-6912).

Build America, Buy America (BABA)

BABA compliant, self-certified; compliance letter available on request. Applies to every product except fiber jumpers (simplex/duplex), MPO jumpers, pigtails and Cat 6 copper.

THE CHALLENGE

Many sites, one specification, a paper trail

The Build America, Buy America Act, enacted in the 2021 Infrastructure Investment and Jobs Act, sets a domestic content preference for federal financial assistance for infrastructure: iron, steel, manufactured products and construction materials used in a covered project must be produced in the United States unless a waiver applies. Grant programs such as NTIA's broadband programs add their own waivers, certification and reporting steps.

The network itself spans very different rooms: a core data center or NOC, dispatch and emergency operations centers, stations and shelters with a single wall and a locked door, and OSP between them. Buyers need the same patching standard at every site, enclosures that lock, and documentation that matches the part numbers on the bill of materials.

COMPLIANCE NOTES

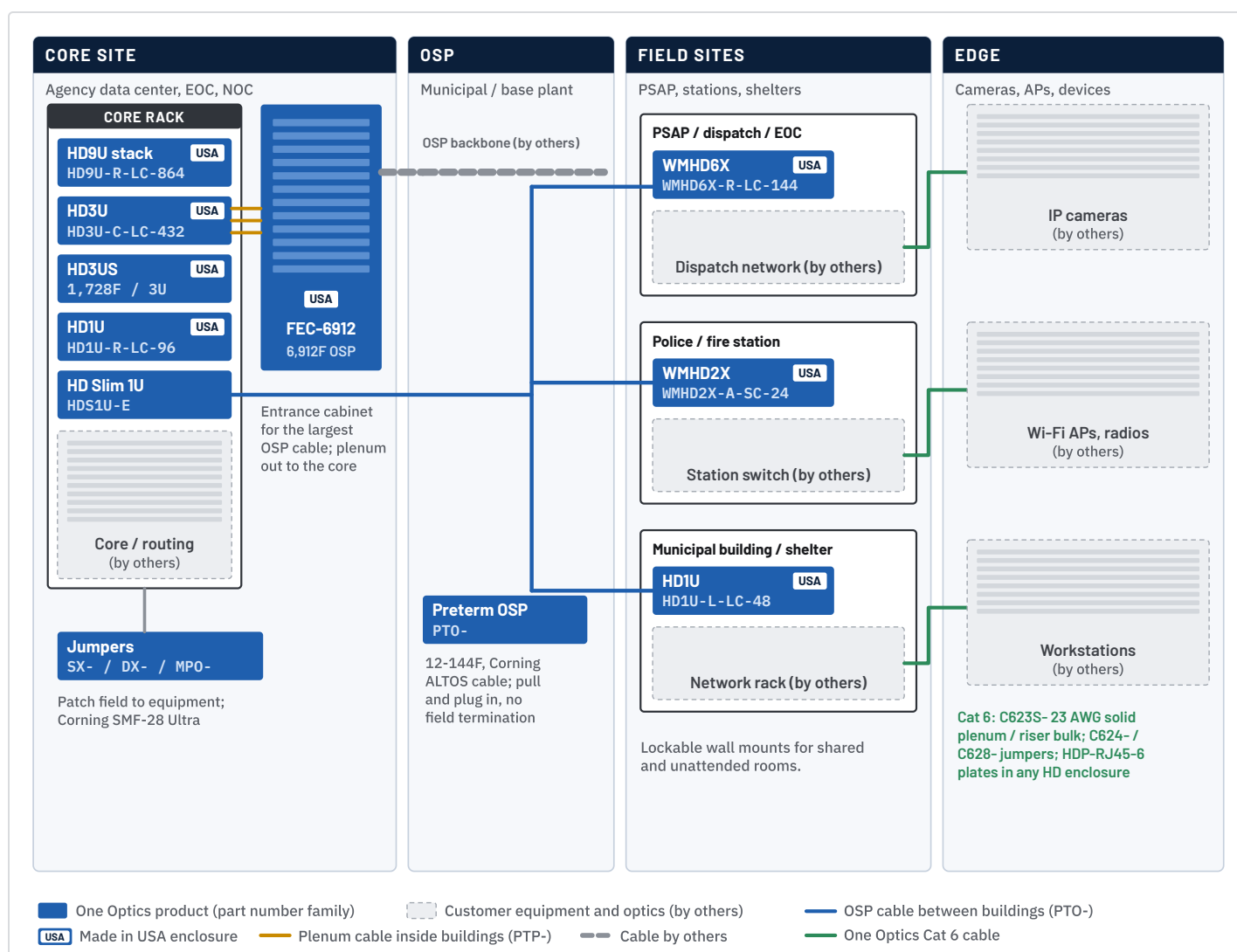
Ask for the BABA letter with the quote so it travels with the submittal.

Know the exceptions. Fiber jumpers (simplex/duplex), MPO jumpers, pigtails and Cat 6 copper are not covered by our BABA self-certification.

Made in USA is enclosure-only. Plates, cassettes and cable assemblies are not marked Made in USA.

Program rules govern. Confirm requirements and waivers with your funding agency.

WHERE ONE OPTICS FITS · CORE SITE TO EDGE



Simplified, not to scale. Active equipment, devices and OSP backbone cable are supplied by others. Enclosures tagged USA are Made in USA; see page 4 for BABA coverage by product.

PRODUCT FIT

Core site, OSP, field sites and edge

PRODUCT	PART NUMBERS	SITE	ROLE · STATUS
 Fiber Entrance Cabinet 44.5 x 21.5 x 13.25 in, aluminum	FEC-6912	Core site entrance	Splices the customer's 6,912F armored or dielectric ribbon OSP cable to 24 x 288F or 48 x 144F plenum (PTP- plenum preterms). MADE IN USA BABA
 HD3U / HD6U / HD9U 3U rack enclosure and stacks	HD3U- · HD6U- · HD9U-	Core · data center	Up to 432 LC in 3U; 1,296 LC in 9U with cassettes (configure to order). MADE IN USA BABA
 HD3US splice panel 3U, splice only	HD3US	Core · hub	6 trays x 288F = 1,728F of splicing in 3U. MADE IN USA BABA
 HD1U enclosure 1U, 4 HD positions	HD1U- [L/R/A] -	All sites	48F loose tube, 96 LC ribbon, 144 LC configure to order. MADE IN USA BABA
 WMHD2X wall mount Lockable doors	WMHD2X- [L/R/A] -	Stations · shelters	Up to 24 SC or 48 LC on the wall, behind a locked door. MADE IN USA BABA
 WMHD6X wall mount Lockable doors	WMHD6X- [L/R/A] -	PSAP · EOC	72 SC or LC loose tube, 144 LC ribbon. MADE IN USA BABA
 HD Slim 1U Open 1U, patch only	HDS1U-E	Shallow racks	4 HD positions for plates or cassettes, 8.66 in deep. BABA
 Plates and cassettes HDP-, MPC-, OOFc-	HDP- · MPC-24-LC- · OOFc-	Rack and wall	LC, SC, MTP and Cat 6 plates and MPO pass-through cassettes fit all five HD enclosures, except 36-port quad plates in the wall mounts; OOFc splice cassettes fit the HD1U, the HD3U family and HD Slim, and the OOFc-24 also fits the wall mounts. BABA
 Preterminated OSP Corning ALTOS, SMF-28 Ultra	PTO-	Between sites	12 to 144F, factory terminated and built to length. BABA
 MPO trunk cables Plenum, US Conec MTP	MPOT-	Core · data center	Custom length up to 288F, Type A, B or C. BABA
 Cat 6 copper Jumpers, pull boxes, plates	C624- · C628- · C623S-	Edge	Jumpers, 23 AWG solid plenum and riser bulk, RJ45 plates.
 Fiber jumpers, MPO jumpers, pigtails Corning SMF-28 Ultra	SX- / DX- · MPO- · PT-	All sites	Patch cords and spliced-build pigtails. Not covered by BABA self-certification.

COMPLIANCE MATRIX

BABA and Made in USA, product by product

Two separate statements apply. **Build America, Buy America (BABA) compliant, self-certified**; compliance letter available on request covers every product except fiber jumpers (simplex/duplex), MPO jumpers, pigtails and Cat 6 copper. **Made in USA** applies only to the six enclosure families marked below.

PRODUCT	PART NUMBER FAMILY	BABA (SELF-CERTIFIED)	MADE IN USA
HD1U rack enclosure	HD1U-	Yes	Yes
HD3U rack enclosure, incl. HD6U and HD9U stacks	HD3U- · HD6U- · HD9U-	Yes	Yes
HD3US splice-only panel	HD3US	Yes	Yes
WMHD2X wall mount enclosure	WMHD2X-	Yes	Yes
WMHD6X wall mount enclosure	WMHD6X-	Yes	Yes
Fiber Entrance Cabinet	FEC-6912	Yes	Yes
HD Slim 1U patch panel	HDS1U-	Yes	No
HD adaptor plates (LC, SC, MTP, blank)	HDP-	Yes	No
MPO pass-through cassettes	MPC-24-LC-A / -U	Yes	No
OOFC splice cassettes	OOFC-	Yes	No
MPO trunk cables	MPOT-	Yes	No
Preterminated OSP cables	PTO-	Yes	No
Preterminated plenum cables	PTP-	Yes	No
Cat 6 jumpers and pull boxes	C624- · C628- · C623S-	No	No
Fiber jumpers, simplex / duplex	SX- / DX-	No	No
MPO jumpers	MPO-	No	No
Fiber pigtails	PT-	No	No

This matrix states One Optics' self-certification and country-of-manufacture marking only. It is not a determination of eligibility for any specific program; project owners should confirm requirements and any applicable waivers with the funding agency.

FOR YOUR SUBMITTAL

- **BABA compliance letter** on request with the quote
- **Datasheets** for every part number on the bill of materials
- **Configure-to-order part numbers** that match the specification line by line

WHERE BABA USUALLY APPLIES

- Infrastructure projects funded with federal financial assistance
- Federally funded broadband programs, which add their own waivers and reporting
- State and municipal projects that pass federal funds through

TYPICAL BUILDS

Three building blocks, core to field site



BUILD 01 · AGENCY DATA CENTER / NOC

1,728 LC with remote splicing, all Made in USA

Two HD9U NT stacks hold six HD3U ribbon enclosures of 288 LC each, with pigtails installed and no splice trays. Ribbon pigtails drop through the rear knockouts to one HD3US below, one 288F tray per HD3U, so patching and splicing stay in separate panels.

HD9U-R-LC-864-NT	9U stack of three HD3U, 864 LC/UPC, ribbon pigtails, no splice trays	USA BABA	2
HD3US	3U splice-only panel, 6 trays x 288F	USA BABA	1

Result: **1,728 LC ports** in 21U from Made in USA enclosures; also orderable as one part number, HD21U-R-LC-1728.



BUILD 02 · PSAP / DISPATCH / EOC

144 LC behind a locked door

A lockable wall mount terminates a ribbon cable on six 24-port LC plates in a dispatch or emergency operations room where rack space is committed to radio and dispatch equipment. LC duplex jumpers patch to the site switches.

WMHD6X-R-LC-144	Wall mount, 144 LC/UPC, ribbon pigtails, splice trays	USA BABA	1
DX-LCLC-[NN]M	Duplex jumper, LC/UPC to LC/UPC, SMF-28 Ultra		as req.

Result: **144 LC** on the wall in a Made in USA, lockable enclosure.



BUILD 03 · POLICE / FIRE STATION

Preterm OSP in, Cat 6 to cameras and APs

A preterminated OSP cable from the core site plugs into an adaptors-only wall mount at the station, so no fiber is terminated on site. Cat 6 riser cable runs from the station switch to cameras, access points and workstations.

PT0-024-[cable]-[A]-[B]-[L]F	Preterminated OSP, 24F, Corning ALTOS, built to length	BABA	1
WMHD2X-A-SC-24	Wall mount, 24 SC/UPC, adaptors only	USA BABA	1
C623S-U-R-CC-PB	Cat 6, 23 AWG solid, riser (CMR), 1,000 ft pull box		as req.

Result: **24 fibers** to the station with no field termination; the fiber cable and wall mount are covered by our BABA self-certification (Cat 6 is not).

WHY ONE OPTICS

Built in Henderson, documented for your submittal

01 Built to order in Henderson, NV

Enclosures and cable assemblies are configured and built per order at our Henderson, Nevada facility, sized to your fiber counts and lengths rather than the nearest stock item, by a team with more than 30 years of experience in cable TV and data center fiber.

03 Configure-to-order part numbers

Part numbers encode fiber style, connector, polish, count, polarity and length, so the build on the drawing is the build on the purchase order.

Made in USA enclosures

HD1U, HD3U (including HD6U and HD9U stacks), HD3US, WMHD2X, WMHD6X and the Fiber Entrance Cabinet (FEC-6912).

02 Every assembly tested

Every assembly is tested before it ships; jumpers, pigtails and preterminated assemblies are tested for end-face cleanliness and end-face geometry. Test data and certificate of conformance available on request.

04 Components you can specify

Corning SMF-28 Ultra (G.657.A1) fiber in our jumpers, MPO jumpers and pigtails; Corning ALTOS cable on preterminated OSP and Corning plenum ribbon or loose tube cable on plenum preterms; US Conec MTP connectors on MPO jumpers, trunks and cassette adaptors.

Build America, Buy America (BABA)

BABA compliant, self-certified; compliance letter available on request. Applies to every product except fiber jumpers (simplex/duplex), MPO jumpers, pigtails and Cat 6 copper.

PLANNING CHECKLIST BY SITE

SITE	DECIDE EARLY	ONE OPTICS PARTS
Core site	Largest OSP cable, ports per core and distribution layer, splice in the chassis or remotely, compliance documents for the submittal	FEC-6912 · HD3U · HD9U · HD3US · HD1U
OSP	Route lengths and fiber counts between sites, aerial or duct, spliced or preterminated	PT0- · PT-
Field sites	Wall or rack, lockable access, connector type, ports now and after expansion	WMHD2X · WMHD6X · HD1U · HDP-
Edge	Plenum or riser, cable quantities, jumper lengths and colors	C623S- · C624- · C628-

WHAT TO SEND FOR A QUOTE

- **Site list** with port counts and room type (rack or wall)
- **Specification section** or bill of materials to match
- **Compliance requirements** stated in the solicitation
- **OSP routes:** lengths, fiber counts, aerial or duct
- **Schedule** and delivery locations

RELATED DATASHEETS

- [Fiber Entrance Cabinet \(FEC-6912\)](#) · [HD3U](#) · [HD3US](#) · [HD1U](#)
- [WMHD2X](#) · [WMHD6X](#) · [HD Slim 1U](#) · [HD adaptor plates](#)
- [Preterminated cables \(OSP and plenum\)](#) · [MPO trunks](#) · [fiber pigtails](#)
- [Fiber jumpers](#) · [MPO jumpers](#) · [Cat 6 jumpers and pull boxes](#)

Specifications are subject to change.