

The remote PHY 4.0 architecture replaces the analog forward link with digital (IP) forward path service to the fiber node resulting in a higher performance and more efficient Ethernet network. It utilizes a Dense Wavelength Division Multiplexing (DWDM) architecture between the Headend and Remote PHY node (RPN) with standard channel counts of 12, 24, and 48.

Amphenol offers a complete family of RPHY 4.0 products for both ISP and OSP deployments. All of these Amphenol products comply to Comcast's "RPHY DWDM Passive Filter Performance Specifications," Release Version 4.0, 2020-09-01.



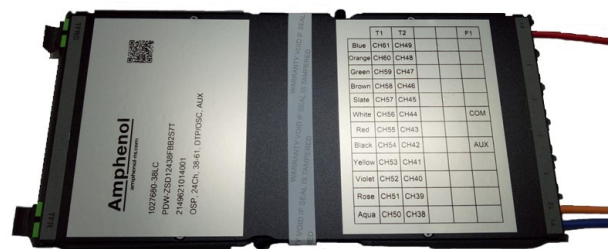
C2E with RPHY 4.0 Muxes installed

Fiber Management Shelf (FMS) DWDM Solutions

On the Fiber Management Shelf (FMS) side, the DWDM modules are provided in our C2 AOM form factor with MDC APC (VSFF) connections to maximize faceplate density. These C2 AOM DWDM modules are then installed into Amphenol's hyper density C2E chassis solutions. This chassis system is available in 1RU, 2RU, and 4RU configurations.



1027804-50MA
Mini Cassette



1027685-38K
DWDM, OSP AOM, 24CH, 38-61, DTP/OSC, AUX,
Tray Mounted Kit

Contact your local ABS representative for more information - [Click Here](#).

C2E Hyper Density Chassis System

The C2E chassis provides a solution that is dense, modular, and tray based. It is offered as either a dedicated Base-8 (for min AOMs) or Base-12 (for standard AOMs) version, but trays can be mixed and matched to combine these solutions. Modules are reversible and can be installed from the front or rear of the chassis.

C2E Base-12 (standard AOM) Chassis



C2E 1RU Base-12

C2E 2RU Base-12

C2E 4RU Base-12



C2E with RPHY DWDM Muxes Installed

| CIFA | Height | Single Module Capacity | Wavelength Capacity | Dimensions (H x W x D) | ABS Part Number |
|--------|--------|------------------------|---------------------|---|-----------------|
| 173147 | 1RU | 12 | 288 | 1.75" x 17.25" x 18.1" (44 mm x 438 mm x 460 mm) | C2E-01U |
| 173148 | 2RU | 24 | 576 | 3.5" x 17.25" x 18.1" (89 mm x 438 mm x 460 mm) | C2E-02U |
| 173149 | 4RU | 48 | 1152 | 7.0" x 17.25" x 18.1" (178 mm x 438 mm x 460 mm) | C2E-04U |

C2E Base-8 (mini AOM) Chassis



C2E 1RU Base-8



C2E 2RU Base-8



C2E 4RU Base-8

| CIFA | Height | Single Module Capacity | 12ch Mux Wavelength Capacity | Dimensions (H x W x D) | ABS Part Number |
|--------|--------|------------------------|------------------------------|---|-----------------|
| 303926 | 1RU | 18 | 216 | 1.75" x 17.25" x 18.1" (44 mm x 438 mm x 460 mm) | C2E-01U8 |
| 303927 | 2RU | 36 | 432 | 3.5" x 17.25" x 18.1" (89 mm x 438 mm x 460 mm) | C2E-02U8 |
| 303928 | 4RU | 72 | 864 | 7.0" x 17.25" x 18.1" (178 mm x 438 mm x 460 mm) | C2E-04U8 |

Key Benefits:

- Supports future architecture with Base-12 (standard AOM) or Base-8 (mini AOM) modules
- Mountable in a 19" or 23" rack or cabinet
- Fiber is managed with tray fiber routing features
- Modules are available in many configurations: MPO, Splice, TAPs
- Available in 1RU, 2RU, and 4RU chassis options
- The fiber at the rear of the panel is protected by a removable cover
- Modules are reversible and can be installed from the front or rear of the chassis
- Accommodates up to 2.0mm simplex or 3.0mm MPO fiber assemblies



C2E RPHY Videos

C2E Hyper Density Chassis System—Accessories

Base-12 (standard AOM) Tray



C2E-TRAY-B12

Base-8 (mini AOM) Tray



C2E-TRAY-B8

| CIFA | Description | ABS Part Number |
|--------|--------------------|-----------------|
| 301388 | Tray, C2E, Base-8 | C2E-TRAY-B8 |
| 301390 | Tray, C2E, Base-12 | C2E-TRAY-B12 |

Contact your local ABS representative for more information - [Click here](#).

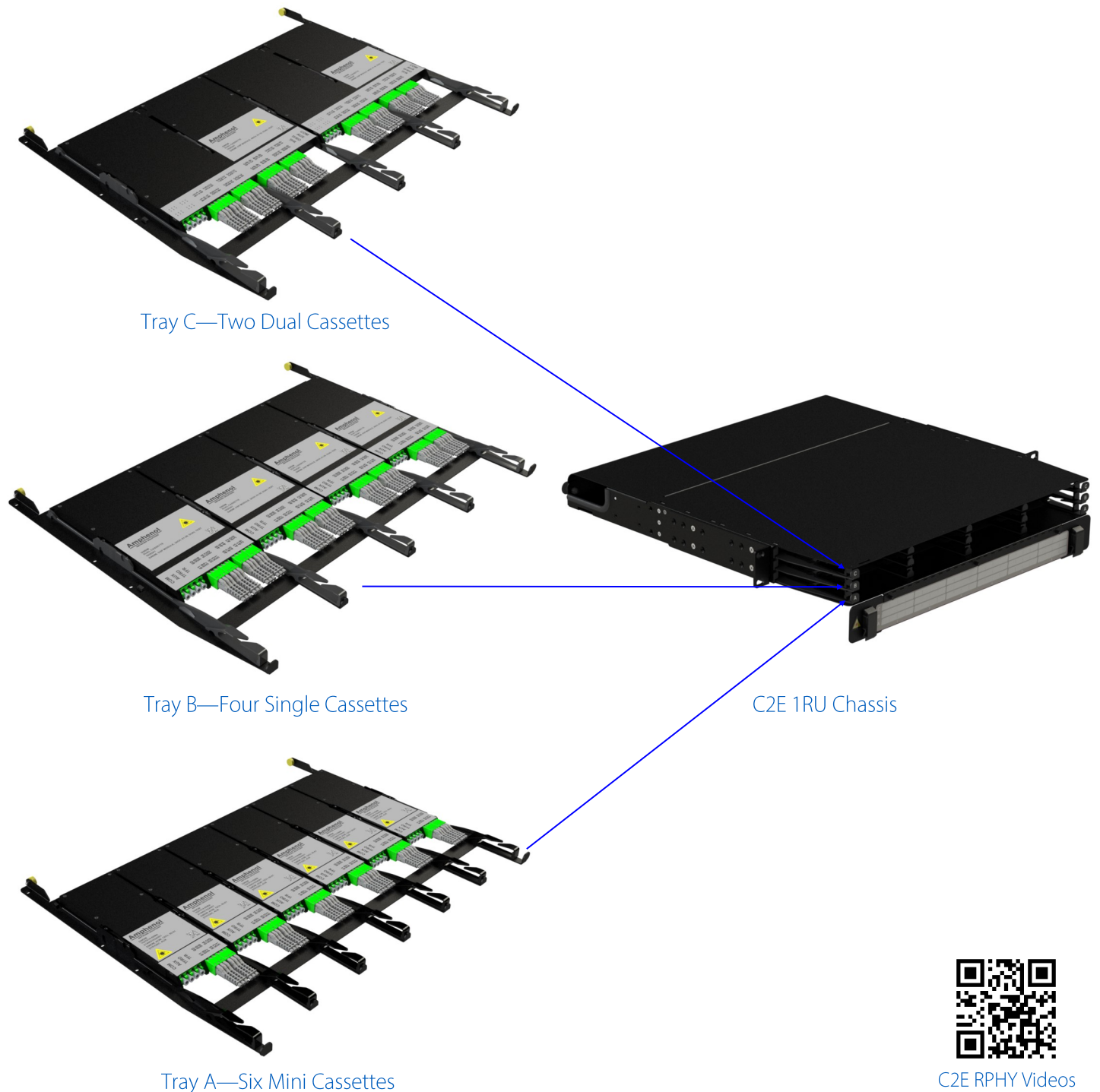


C2E RPHY Videos

C2E Hyper Density Chassis System Flexibility

The flexible design of the C2E chassis system allows for a combination of Base-8 (for mini AOMs) and Base-12 (for standard AOMs) trays to be installed into one chassis. This delivers the flexibility to mix and match a combination of mini, single, and dual cassettes into a C2E chassis to optimize the utilization of valuable rack space.

One example configuration to mix and match the Base-8 and Base-12 trays in a C2E chassis is shown below.



DWDM Modules



1027627-14MA
Dual Cassette



1027613-38MA
Single Cassette



1027804-50MA
Mini Cassette



1027614-50MA
Single Cassette

| CIFA | Description | Cassette Width | ABS Part Number |
|------------------------------|---|----------------|-----------------|
| Odd/Even Channel Plan | | | |
| 301102 | ISP V4, 48CH 14-61, MDCA ITU, LCA COM AUX TPFR TPFRO, O/E PLAN, Single, C2 dAOM | Dual | 1027627-14MA |
| 173132 | ISP V4, 24CH 38-61, MDCA ITU, LCA COM AUX TPFR TPFRO, O/E PLAN, Single, C2 AOM | Single | 1027613-38MA |
| 173133 | ISP V4, 24CH 14-37, MDCA ITU, LCA COM AUX TPFR TPFRO, O/E PLAN, Single, C2 AOM | Single | 1027613-14MA |
| 173136 | ISP V4, 12CH 50-61, MDCA ITU, LCA COM AUX TPFR TPFRO, O/E PLAN, Single, C2 AOM | Single | 1027614-50MA |
| 173137 | ISP V4, 12CH 38-49, MDCA ITU, LCA COM AUX TPFR TPFRO, O/E PLAN, Single, C2 AOM | Single | 1027614-38MA |
| 173138 | ISP V4, 12CH 26-37, MDCA ITU, LCA COM AUX TPFR TPFRO, O/E PLAN, Single, C2 AOM | Single | 1027614-26MA |
| 173139 | ISP V4, 12CH 14-25, MDCA ITU, LCA COM AUX TPFR TPFRO, O/E PLAN, Single, C2 AOM | Single | 1027614-14MA |
| 301383 | ISP V4, 12CH 50-61, MDCA ITU, LCA COM AUX TPFR TPFRO, O/E PLAN, Single, C2 mAOM | Mini | 1027804-50MA |
| 301382 | ISP V4, 12CH 38-49, MDCA ITU, LCA COM AUX TPFR TPFRO, O/E PLAN, Single, C2 mAOM | Mini | 1027804-38MA |
| 301381 | ISP V4, 12CH 26-37, MDCA ITU, LCA COM AUX TPFR TPFRO, O/E PLAN, Single, C2 mAOM | Mini | 1027804-26MA |
| 301380 | ISP V4, 12CH 14-25, MDCA ITU, LCA COM AUX TPFR TPFRO, O/E PLAN, Single, C2 mAOM | Mini | 1027804-14MA |
| HFC Channel Plan | | | |
| TBD | DWDM, Full Spectrum, C2 AOM, 16ch, DTP/OSC, AUX, LC/APC, channels 21-62 | Single | 1027675 |
| TBD | DWDM, Full Spectrum, C2 AOM, 8ch, DTP/OSC, AUX, LC/APC, channels 21, 22, 24, 26, 28, 33, 36, 39 | Single | 1027676 |
| TBD | DWDM, Full Spectrum, C2 AOM, 8ch, DTP/OSC, AUX, LC/APC, channels 44, 48, 52, 54, 57, 60, 61, 62 | Single | 1027677 |

Contact your local ABS representative for more information - [Click here](#).

C2E Hyper Density Chassis System—LGX® Accessory Bracket



1027808



1027807



Loaded Base-12 Bracket



Loaded Base-8 Bracket



C2E RPHY Videos

| CIFA | Description | ABS Part Number |
|--------|--------------------------------|-----------------|
| 301385 | LGX Bracket, Dual, Base-8 AOM | 1027807 |
| 301387 | LGX Bracket, Dual, Base-12 AOM | 1027808 |

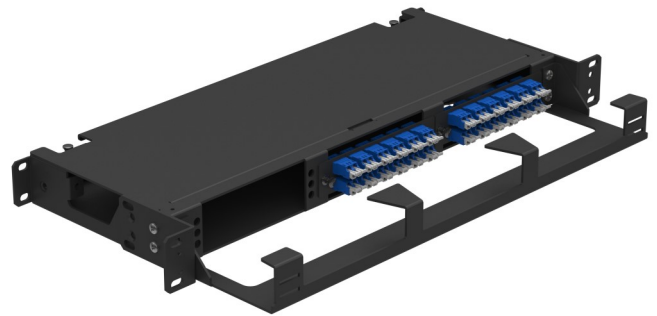
LGX® is a registered trademark of OFS FITEL, LLC

Universal Media Panel (UMP)

Amphenol offers a 1RU Universal Media Panel (UMP) designed for high capacity and maximum flexibility in a variety of network applications.

The panel utilizes industry-standard LGX® dimensioning. It can accept 12ch and 24ch RPHY 4.0 DWDM modules (using an LGX bracket) along with a wide array of adapter panels including LC Duplex, SC Simplex and Duplex, MPO/MTP, RJ45 data connection jacks, and coaxial (F81).

This system achieves high port density with the convenience of combining multiple media connections in a compact and highly configurable package. The flexible system design provides multiple mounting options for both wall mount and rack mount applications.



Universal Media Panel

Key Benefits:

- 1RU Chassis
- Mountable in 19" or 23" racks or cabinets
- Wall Mountable
- Front Fiber Management
- Fully removable back cover
- LGX Bracket for 12CH or 24CH Mux
- Mux Capacity =6
- 24 LC Port Patch Panel
- Patch Panel Capacity = 48

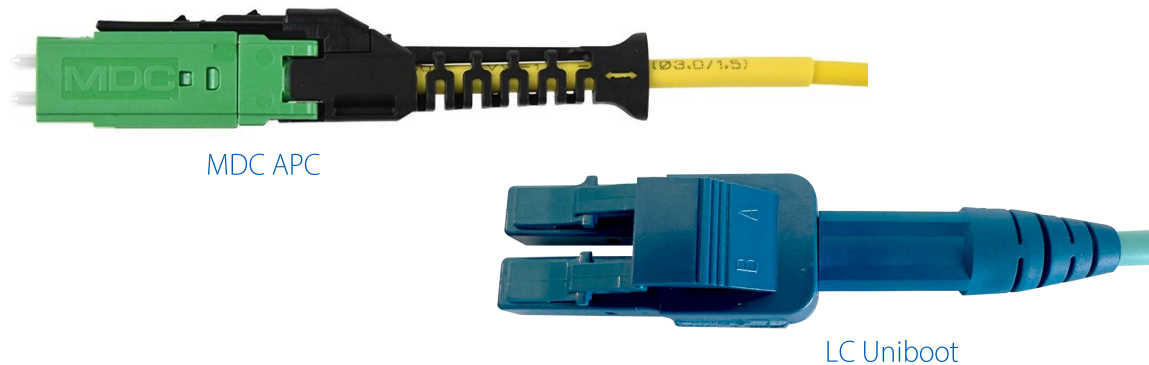
| CIFA | Description | ABS Part Number |
|--------|--|-----------------|
| 309786 | UNIV MEDIA PANEL, 1RU, 2x24 LC/UPC PATCH PLATES | UMP-1RU-48LCU |
| 309787 | PATCH PLATE, 12 LC/APC DUPLEX (GREEN), LGX STYLE, PUSH-PINS, BLACK | ASBMMB1028322 |
| 309788 | PATCH PLATE, 12 LC/UPC DUPLEX (BLUE), LGX STYLE, PUSH-PINS, BLACK | ASBMMB1028321 |

Contact your local ABS representative for more information - [Click here](#).

LGX® is a registered trademark of OFS FITELE, LLC

MDC to LC Jumpers

Amphenol offers hybrid MDC/APC to LC/UPC fiber jumpers for applications such as connecting DWDM transceivers to an RPHY 4.0 DWDM mux. These jumpers utilize yellow 1.6mm cordage and the uniboot LC connector style. They are available in a wide range of lengths from 1.6 meter up to 45 meters.



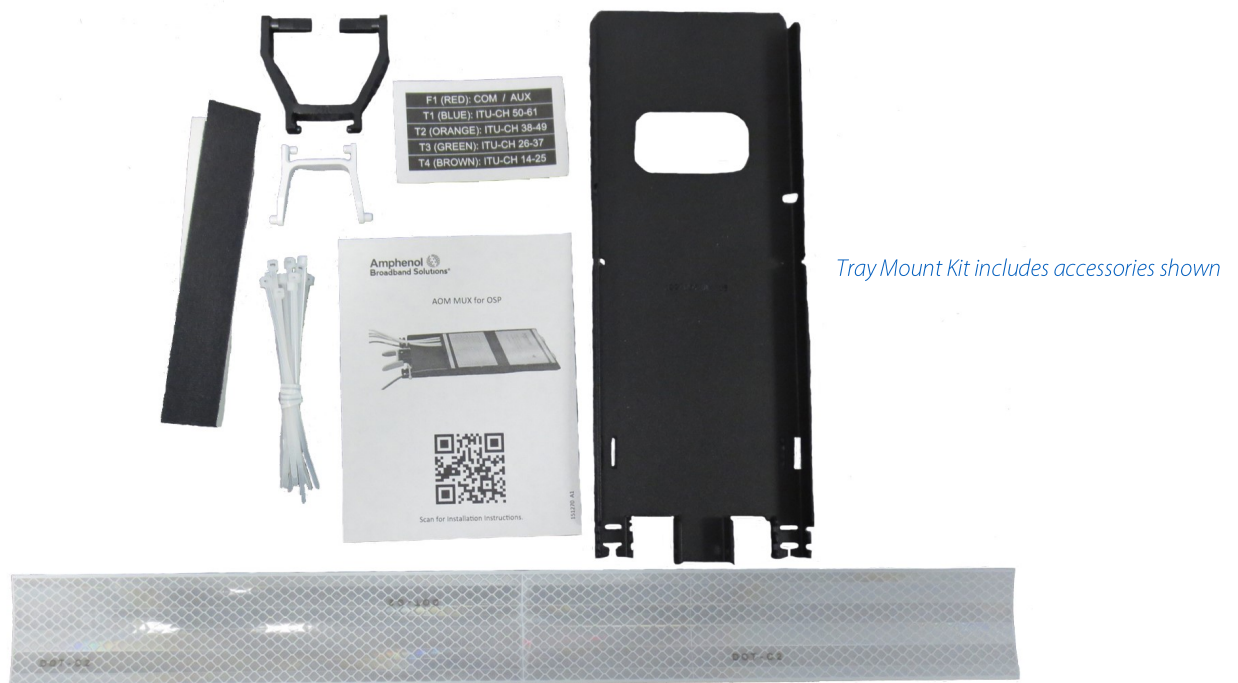
| CIFA | Description | ABS Part Number |
|--------|--|-----------------|
| 301092 | FIBER JUMPER, SM DUPLEX LC/UPC-MDC/APC 1.6MM UNIBOOT 1.6 METER | 942-97721-101.6 |
| 303909 | FIBER JUMPER SM DUPLEX LC/UPC-MDC/APC 1.6MM UNIBOOT 5M YELLOW | 942-97721-10005 |
| 303910 | FIBER JUMPER SM DUPLEX LC/UPC-MDC/APC 1.6MM UNIBOOT 10M YELLOW | 942-97721-10010 |
| 305168 | FIBER JUMPER SM DUPLEX LC/UPC-MDC/APC 1.6MM UNIBOOT 2M YELLOW | 942-97721-10002 |
| 306049 | FIBER JUMPER SM DUPLEX LC/UPC-MDC/APC 1.6MM UNIBOOT 3M YELLOW | 942-97721-10003 |
| 307240 | FIBER JUMPER SM DUPLEX LC/UPC-MDC/APC 1.6MM UNIBOOT 4M YELLOW | 942-97721-10004 |
| 307241 | FIBER JUMPER SM DUPLEX LC/UPC-MDC/APC 1.6MM UNIBOOT 6M YELLOW | 942-97721-10006 |
| 307242 | FIBER JUMPER SM DUPLEX LC/UPC-MDC/APC 1.6MM UNIBOOT 7M YELLOW | 942-97721-10007 |
| 307243 | FIBER JUMPER SM DUPLEX LC/UPC-MDC/APC 1.6MM UNIBOOT 8M YELLOW | 942-97721-10008 |
| 307244 | FIBER JUMPER SM DUPLEX LC/UPC-MDC/APC 1.6MM UNIBOOT 9M YELLOW | 942-97721-10009 |
| 307500 | FIBER JUMPER SM DUPLEX LC/UPC-MDC/APC 1.6MM UNIBOOT 15M YELLOW | 942-97721-10015 |
| 307501 | FIBER JUMPER SM DUPLEX LC/UPC-MDC/APC 1.6MM UNIBOOT 20M YELLOW | 942-97721-10020 |
| 307502 | FIBER JUMPER SM DUPLEX LC/UPC-MDC/APC 1.6MM UNIBOOT 25M YELLOW | 942-97721-10025 |
| 307503 | FIBER JUMPER SM DUPLEX LC/UPC-MDC/APC 1.6MM UNIBOOT 30M YELLOW | 942-97721-10030 |
| 307956 | FIBER JUMPER SM DUPLEX LC/UPC-MDC/APC 1.6MM UNIBOOT 35M YELLOW | 942-97721-10035 |
| 307957 | FIBER JUMPER SM DUPLEX LC/UPC-MDC/APC 1.6MM UNIBOOT 40M YELLOW | 942-97721-10040 |
| 307958 | FIBER JUMPER SM DUPLEX LC/UPC-MDC/APC 1.6MM UNIBOOT 45M YELLOW | 942-97721-10045 |

Contact your local ABS representative for more information - [Click here](#).

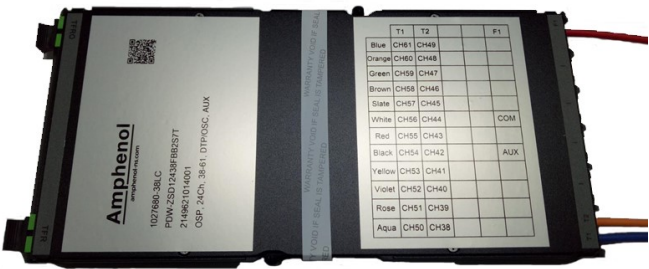
OSP DWDM Solutions

For the OSP side, Amphenol offers a complete tray mounted DWDM solution that leverages our OSP AOM DWDM module with a tray that can be seamlessly installed into the FOOSC B and D outside plant closures.

| Application | Description |
|-----------------|--|
| FOOSC B Closure | OSP AOM + Tray Bracket + B Hinge |
| FOOSC D Closure | OSP AOM + Tray Bracket + D Tower Hinge |



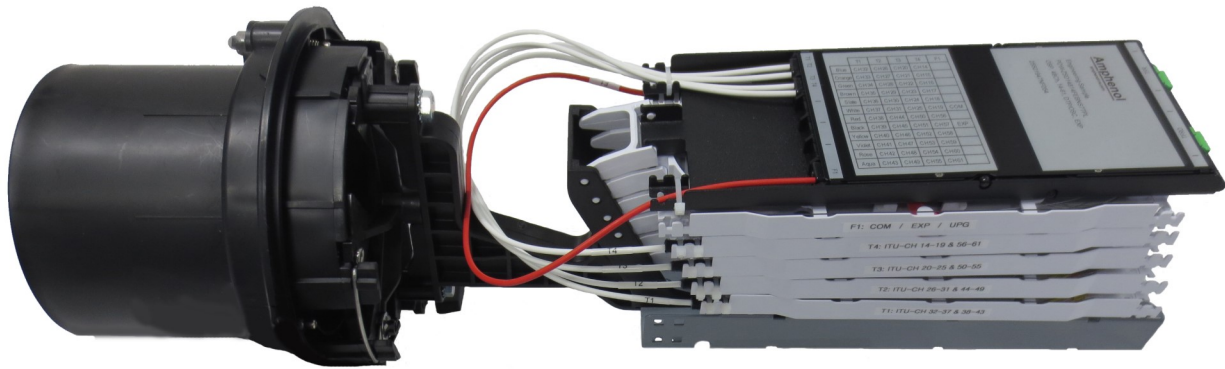
Tray Mount Kit includes accessories shown



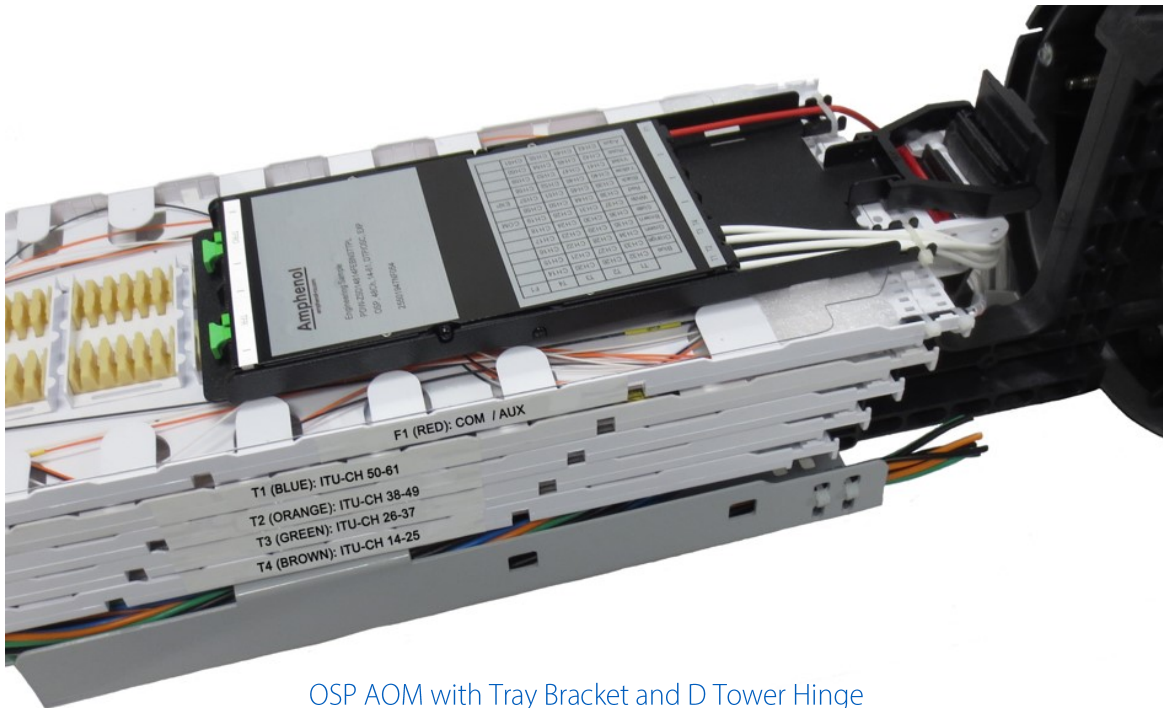
1027685-38K
DWDM, OSP AOM, 24CH, 38-61, DTP/OSC, AUX, Tray Mounted Kit

FOOSC® is a registered trademark of CommScope

OSP DWDM Solutions



OSP AOM with Tray Bracket and Hinge Installed in FOSC-B



OSP AOM with Tray Bracket and D Tower Hinge Installed in FOSC-D

FOSC® is a registered trademark of CommScope

OSP DWDM Solutions—Ordering Information

| CIFA | Description | ABS Part Number |
|------------------------------|--|-----------------|
| Odd/Even Channel Plan | | |
| 173150 | OSP V4, 48CH 14-61, FIBER ITU COM AUX, SCA TPFRO TPFRO, O/E PLAN, Single, AOM KIT | 1027683K |
| 173154 | OSP V4, 24CH 38-61, FIBER ITU COM AUX, SCA TPFRO TPFRO, O/E PLAN, Single, AOM KIT | 1027685-38K |
| 173155 | OSP V4, 24CH 14-37, FIBER ITU COM AUX, SCA TPFRO TPFRO, O/E PLAN, Single, AOM KIT | 1027685-14K |
| 173158 | OSP V4, 12CH 50-61, FIBER ITU COM AUX, SCA TPFRO TPFRO, O/E PLAN, Single, AOM KIT | 1027686-50K |
| 173159 | OSP V4, 12CH 38-49, FIBER ITU COM AUX, SCA TPFRO TPFRO, O/E PLAN, Single, AOM KIT | 1027686-38K |
| 173160 | OSP V4, 12CH 26-37, FIBER ITU COM AUX, SCA TPFRO TPFRO, O/E PLAN, Single, AOM KIT | 1027686-26K |
| 173161 | OSP V4, 12CH 14-25, FIBER ITU COM AUX, SCA TPFRO TPFRO, O/E PLAN, Single, AOM KIT | 1027686-14K |
| HFC Channel Plan | | |
| TBD | DWDM, Full Spectrum, OSP AOM, 16CH, DTP/OSC, AUX, SC/APC test ports only, 2mtr, 250um, channels 21, 22, 24, 26, 28, 33, 36, 39, 44, 48, 52, 54, 57, 60, 61, 62, Tray Mounted Kit | 1027687K |
| TBD | DWDM, Full Spectrum, OSP, 8CH, DTP/OSC, AUX, SC/APC test ports only, 2mtr, 250um, channels 21, 22, 24, 26, 28, 33, 36, 39 | 1027700 |
| TBD | DWDM, Full Spectrum, OSP, 8CH, DTP/OSC, AUX, SC/APC test ports only, 2mtr, 250um, channels 44, 48, 52, 54, 57, 60, 61, 62 | 1027701 |

Contact your local ABS representative for more information - [Click here](#).