



COMCAST

OSP xWDM Ordering Guide

Amphenol  Broadband Solutions®



DWDM Specifications

Parameter	Value
Operating Wavelengths	ITU-T Grid
Channel Spacing	0.8nm (ITU 100GHz)
Power Handling	300mW
Connector Type	LC or SC; UPC or APC
Operating Temperature	-40 to +85°C
Storage Temperature	-40 to +85°C

CWDM Specifications

Parameter	Value
Center Wavelength Range	1271 to 1611nm (ITU-T)
Wavelength Spacing	20nm
Power Handling	300mW
Connector Type	LC or SC; UPC or APC
Operating Temperature	-40 to +85°C
Storage Temperature	-40 to +85°C

CWDM Available Center Wavelengths

Code	λ	Code	λ	Code	λ
27	1271	39	1391	51	1511
29	1291	41	1411	53	1531
31	1311	43	1431	55	1551
33	1331	45	1451	57	1571
35	1351	47	1471	59	1591
37	1371	49	1491	61	1611

DWDM ITU-T Grid

Channel	Wavelength	Channel	Wavelength
12	1567.95	39	1546.12
13	1567.13	40	1545.32
14	1566.31	41	1544.53
15	1565.50	42	1543.73
16	1564.68	43	1542.94
17	1563.86	44	1542.14
18	1563.05	45	1541.35
19	1562.23	46	1540.56
20	1561.42	47	1539.77
21	1560.61	48	1538.98
22	1559.79	49	1538.19
23	1558.98	50	1537.40
24	1558.17	51	1536.61
25	1557.36	52	1535.82
26	1556.55	53	1535.04
27	1555.75	54	1534.25
28	1554.94	55	1533.47
29	1554.13	56	1532.68
30	1553.33	57	1531.90
31	1552.52	58	1531.12
32	1551.72	59	1530.33
33	1550.92	60	1529.55
34	1550.12	61	1528.77
35	1549.32	62	1527.99
36	1548.51	63	1527.22
37	1547.72	64	1526.44
38	1546.92	65	1525.66

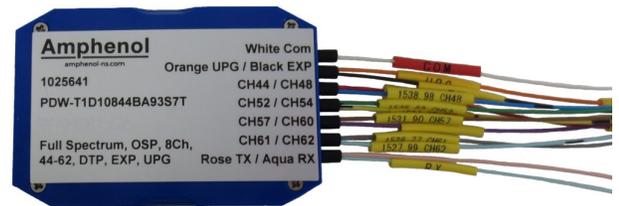
Amphenol offers a full lineup of OptiFi™ outside plant (OSP) muxes for use in a wide range of optical network architectures.

The product family includes optical passives ranging from 4 to 40 channel counts. They can be configured with optional express, upgrade, and test ports to support a variety of applications. The packaging comes in two forms, the HiDT (channel counts 8 or less) and the OSP AOM (channel counts 12 and higher), both providing stable optical performance across a wide operating temperature range for OSP deployment.

Amphenol OptiFi Muxes are available in kits with accessories to facilitate installation into FOSC® A/B/C/D enclosures.

Channel Count <= 8

Application	Description
FOSC C/D Tray	HiDT + Module Adapter



HiDT

Features

- Color coded fibers and wavelength labels on each fiber provide easy identification
- Upgrade port for pass through wavelengths
- Dual test ports (Tx and Rx) and express ports
- Single end fiber ports for easy routing and splicing
- 900um fiber leads



Module Adapter

Applications

- Metro Ethernet
- HFC / Fiber Deep

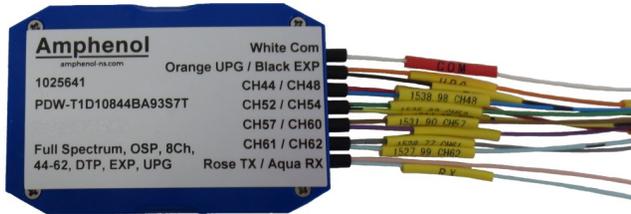


HiDT mounted on FOSC D Tray

FOSC® is a registered trademark of CommScope

Channel Count <= 8

Application	Description
FOSC A/B Closure	HiDT + Medium Splice Tray with Hinge



HiDT



Medium Splice Tray with Hinge



HiDT on Medium Splice Tray with Hinge



HiDT on Medium Splice Tray
mounted in FOSC B

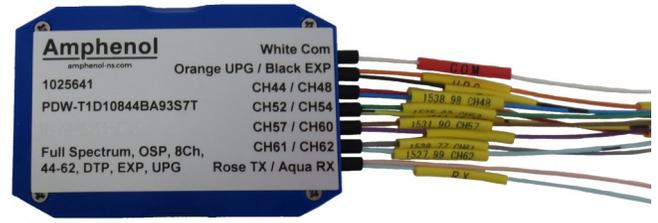
FOSC® is a registered trademark of CommScope

FOSC® D Slack Basket Installation:

The HiDT on Medium Splice Tray can also be installed into the FOSC D slack basket area by using the D Tower Hinge.

Channel Count <= 8

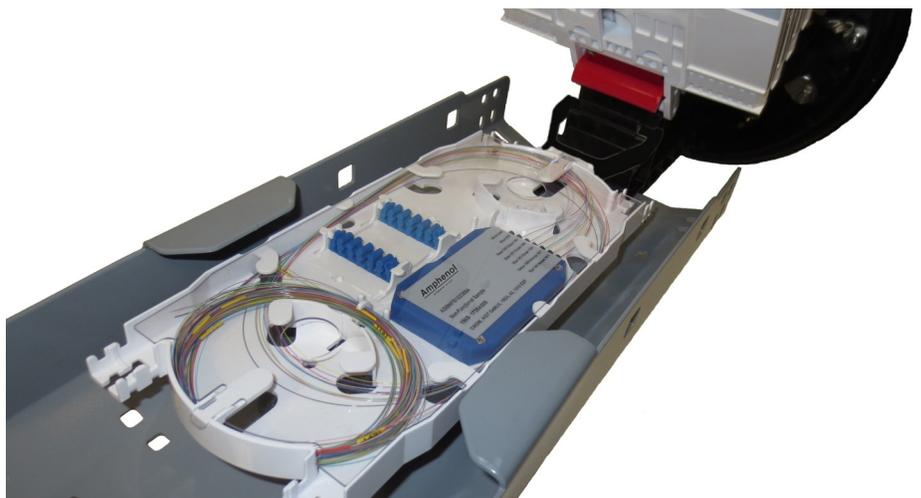
Application	Description
FOSC C/D Closure	HiDT + Medium Splice Tray + D Tower Hinge



HiDT



Medium Splice Tray + D Tower Hinge



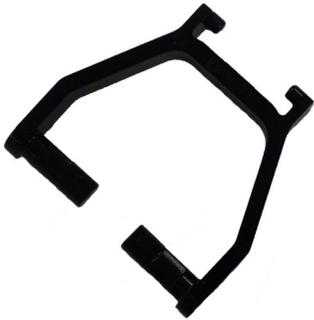
HiDT on Medium Splice Tray with D Tower Hinge mounted in FOSC D Slack Basket

FOSC® is a registered trademark of CommScope

CIFA	Description	Part Number
300147	Accessory Kit—(1) Medium Splice Tray with A/B Hinge, (1) D Tower Hinge, and (1) D Tray Cradle Adapter	1027596



Medium Splice Tray with A/B Hinge
(Included with Kit)



D Tower Hinge
(Included with Kit)



D Tray Cradle Adapter
(Included with Kit)

Channel Count ≥ 8

Application	Description
FOSC B Closure	OSP AOM + Tray Bracket + B Hinge
FOSC D Closure	OSP AOM + Tray Bracket + D Tower Hinge



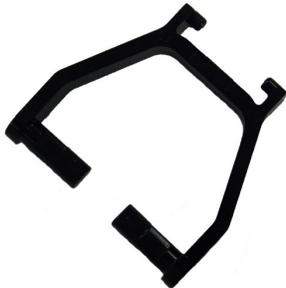
OSP AOM



B Hinge



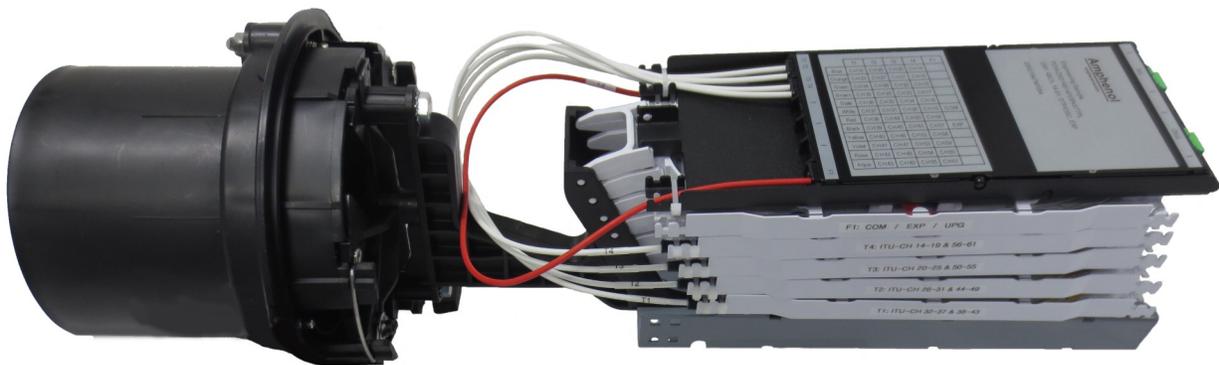
Tray Bracket + B Hinge



D Tower Hinge



Tray Bracket + D Tower Hinge



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

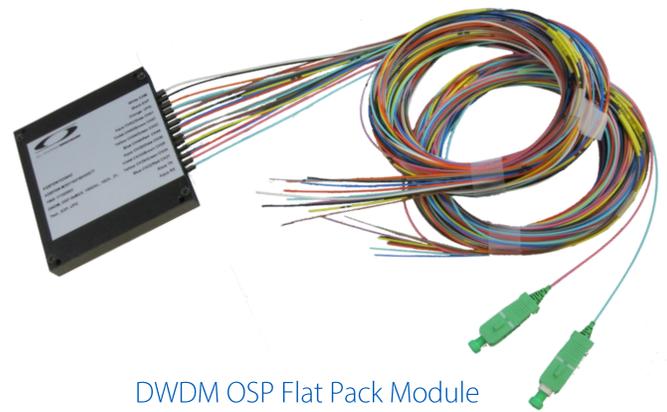
FOSC® is a registered trademark of CommScope

Amphenol Broadband Solutions offers a family of flat pack modules for a wide range of DWDM applications.

The Flat Pack modules have integrated mounting features and fiber ports exiting one end of the package.

The compact lightweight design provides a rugged package with high port count and component capacity that delivers improved density in field deployment applications.

This Dense Wave Division Multiplex (DWDM) module can be supplied as a 12, 16, 20, and 40 channel format with various channel plans.



DWDM OSP Flat Pack Module

Features:

- Four mounting holes enabling installation versatility
- Color coded fibers and wavelength labels on each fiber provide easy identification, when applicable.
- Test leads are terminated with SC/APC connectors
- Single end fiber ports for easy routing and splicing
- Dual test ports (Tx and Rx)
- Express and upgrade ports
- 900um fiber leads

This solution delivers efficient and scalable network services for business customers within a specific metropolitan region. It utilizes a Dense Wavelength Division Multiplexing (DWDM) architecture with standard channel counts of 4, 8, 20 and 40.

CIFA	Buffer Type	Channel Range	Description	Product Type	Part Number
CWDM 8 Channel					
92681	900um	1431-1611	CWDM - TYPE A, HiDT, 8ch, 1431-1611, DTP, DWDM EXP, SC/APC test ports only, 900um, 3mtr	HiDT	1023366
DWDM 12 Channel					
92715	900um	50-61	DWDM, OSP, 12ch, 50-61, DTP, EXP, UPG, SC/APC test ports only, 3mtr	Flatpack	1025076-50
DWDM 16 Channel					
92716	900um	25-40	DWDM, OSP 16ch, 25-40, DTP, EXP, UPG, SC/APC test ports only, 3mtr	Flatpack	1025077-25
DWDM 4 Channel					
92802	900um	20-23	DWDM, HiDT, 4ch, 20-23, DTP, EXP, UPG, SC/APC test ports only, 3mtr	HiDT	1026185-20
92803	900um	24-27	DWDM, HiDT, 4ch, 24-27, DTP, EXP, UPG, SC/APC test ports only, 3mtr	HiDT	1026185-24
92804	900um	28-31	DWDM, HiDT, 4ch, 28-31, DTP, EXP, UPG, SC/APC test ports only, 3mtr	HiDT	1026185-28
92805	900um	32-35	DWDM, HiDT, 4ch, 32-35, DTP, EXP, UPG, SC/APC test ports only, 3mtr	HiDT	1026185-32
92806	900um	36-39	DWDM, HiDT, 4ch, 36-39, DTP, EXP, UPG, SC/APC test ports only, 3mtr	HiDT	1026185-36
92807	900um	40-43	DWDM, HiDT, 4ch, 40-43, DTP, EXP, UPG, SC/APC test ports only, 3mtr	HiDT	1026185-40
92808	900um	44-47	DWDM, HiDT, 4ch, 44-47, DTP, EXP, UPG, SC/APC test ports only, 3mtr	HiDT	1026185-44
92809	900um	48-51	DWDM, HiDT, 4ch, 48-51, DTP, EXP, UPG, SC/APC test ports only, 3mtr	HiDT	1026185-48
TBD	900um	52-55	DWDM, HiDT, 4ch, 52-55, DTP, EXP, UPG, SC/APC test ports only, 3mtr	HiDT	1026185-52
TBD	900um	56-59	DWDM, HiDT, 4ch, 56-59, DTP, EXP, UPG, SC/APC test ports only, 3mtr	HiDT	1026185-56
DWDM 8 Channel					
92719	900um	20-27	DWDM, HiDT, 8ch, 20-27, DTP, EXP, UPG, SC/APC test ports only, 3mtr	HiDT	1025624-20
92720	900um	28-35	DWDM, HiDT, 8ch, 28-35, DTP, EXP, UPG, SC/APC test ports only, 3mtr	HiDT	1025624-28
92722	900um	36-43	DWDM, HiDT, 8ch, 36-43, DTP, EXP, UPG, SC/APC test ports only, 3mtr	HiDT	1025624-36
92723	900um	44-51	DWDM, HiDT, 8ch, 44-51, DTP, EXP, UPG, SC/APC test ports only, 3mtr	HiDT	1025624-44
92724	900um	52-59	DWDM, HiDT, 8ch, 52-59, DTP, EXP, UPG, SC/APC test ports only, 3mtr	HiDT	1025624-52
TBD	900um	25-32	DWDM, HiDT, 8ch, 25-32, DTP, EXP, UPG, SC/APC test ports only, 3mtr	HiDT	1025624-25
92721	900um	33-40	DWDM, HiDT, 8ch, 33-40, DTP, EXP, UPG, SC/APC test ports only, 3mtr	HiDT	1025624-33
DWDM 20 Channel					
92814	900um	20-39	DWDM, OSP, 20ch, 20-39, DTP, EXP, UPG, SC/APC all ports, 1mtr	Flatpack	1026225-20
92815	900um	40-59	DWDM, OSP, 20ch, 40-59, DTP, EXP, UPG, SC/APC all ports, 1mtr	Flatpack	1026225-40
300149	250um	20-39	DWDM, OSP AOM, 20ch, 20-39, DTP, EXP, UPG, SC/APC test ports only, 2 mtr, Tray Mounted Kit	OSP AOM	1027580-20
300150	250um	40-59	DWDM, OSP AOM, 20ch, 40-59, DTP, EXP, UPG, SC/APC test ports only, 2 mtr, Tray Mounted Kit	OSP AOM	1027580-40
DWDM 40 Channel					
92816	900um	20-59	DWDM, OSP, 40ch, 20-59, DTP, EXP, UPG, SC/APC all ports, 1mtr	Flatpack	1026227
300146	250um	20-59	DWDM, OSP AOM, 40ch, 20-59, DTP, EXP, UPG, SC/APC test ports only, 2 mtr, Tray Mounted Kit	OSP AOM	1027581
HiDT Accessory Kit					
300147			Accessory Kit—(1) Medium Splice Tray with A/B hinge, (1) D Tower Tray Hinge, and (1) D Tray Cradle Adapter		1027596

This Hybrid Fiber Coax (HFC) solution pushes fiber deeper into the access network to provide higher bandwidth and more scalable services to both residential and enterprise applications. The Full Spectrum DWDM architecture is used with standard channel counts of 4, 8, and 16.

CIFA	Buffer Type	Channel Range	Description	Product Type	Part Number
DWDM Full Spectrum 4 Channel					
92810	900um	21, 22, 24, 26	DWDM, Full Spectrum, HiDT, 4ch, DTP, EXP, UPG, SC/APC test ports only, 3mtr, channels 21, 22, 24, 26	HiDT	1026192-C6
92812	900um	28, 33, 36, 39	DWDM, Full Spectrum, HiDT, 4ch, DTP, EXP, UPG, SC/APC test ports only, 3mtr, channels 28, 33, 36, 39	HiDT	1026192-CC
92811	900um	44, 48, 52, 54	DWDM, Full Spectrum, HiDT, 4ch, DTP, EXP, UPG, SC/APC test ports only, 3mtr, channels 44, 48, 52, 54	HiDT	1026192-CB
92813	900um	57, 60, 61, 62	DWDM, Full Spectrum, HiDT, 4ch, DTP, EXP, UPG, SC/APC test ports only, 3mtr, channels 57, 60, 61, 62	HiDT	1026192-CD
DWDM Full Spectrum 8 Channel					
92728	900um	21, 22, 24, 26, 28, 33, 36, 39	DWDM, Full Spectrum, HiDT, 8ch, DTP, EXP, UPG, SC/APC test ports only, 3mtr, channels 21, 22, 24, 26, 28, 33, 36, 39	HiDT	1025640
92729	900um	44, 48, 52, 54, 57, 60, 61, 62	DWDM, Full Spectrum, HiDT, 8ch, DTP, EXP, UPG, SC/APC test ports only, 3mtr, channels 44, 48, 52, 54, 57, 60, 61, 62	HiDT	1025641
DWDM Full Spectrum 16 Channel					
300148	250um	21, 22, 24, 26, 28, 33, 36, 39, 44, 48, 52, 54, 57, 60, 61, 62	DWDM, Full Spectrum, OSP AOM, 16ch, DTP, EXP, UPG, 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	OSP AOM	1027579-CH
BWDM					
93395	900um	21-39, 44-62	BWDM, HiDT, 2 bands, 21-39, 44-62, SC/APC all ports, 900um, 1 mtr	HiDT	1027014
HiDT Accessory Kit					
300147			Accessory Kit—(1) Medium Splice Tray with A/B hinge, (1) D Tower Hinge, and (1) D Tray Cradle Adapter		1027596

EPON is an all IP fiber-only network that utilizes passive optical splitters with various split ratios from 1x2 up to 1x32. This architecture has a Dense Wavelength Division Multiplexing (DWDM) overlay with a standard channel count of 8 or 16.

CIFA	Buffer Type	Channel Range	Description	Product Type	Part Number
DWDM 8 Channel					
92719	900um	20-27	DWDM, HiDT, 8ch, 20-27, DTP, EXP, UPG, SC/APC test ports only, 3mtr	HiDT	1025624-20
92720	900um	28-35	DWDM, HiDT, 8ch, 28-35, DTP, EXP, UPG, SC/APC test ports only, 3mtr	HiDT	1025624-28
DWDM 16 Channel					
TBD	900um	20-35	DWDM, OSP, 16ch, 20-35, DTP, EXP, UPG, SC/APC test ports only, 3mtr	Flatpack	1025077-20
CIFA	Split Ratio	Connector Type	Description	Product Type	Part Number
Optical Splitters - Tray Kits					
34606	1x2	None	1x2 FBT Splitter, 250um 2mtr fiber pigtailed, no connectors plus MF module, and tray adapter	Discrete	ASBPSP1026401
34607	1x4	None	1x4 PLC Splitter, 250um 2mtr fiber pigtailed, no connectors plus MF module, and tray adapter	Discrete	1026386
34608	1x8	None	1x8 PLC Splitter, 250um 2mtr fiber pigtailed, no connectors plus MF module, and tray adapter	Discrete	ASBPSP1026387
34609	1x16	None	1x16 PLC Splitter, 250um 2mtr fiber pigtailed, no connectors plus MF module, and tray adapter	Discrete	ASBPSP1026388
34610	1x32	None	1x32 PLC Splitter, 250um 2mtr fiber pigtailed, no connectors plus MF module, and tray adapter	Discrete	1026389

Remote PHY 4.0

The Remote PHY 4.0 solution replaces the analog forward link with a 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, 36, and 48.

CIFA	Description	Product Type	Part Number
173150	OSP V4, 48CH 14-61, Fiber ITU COM AUX, SCA TPFR TPFRO, O/E Plan, Single AOM Kit	OSP AOM	1027683K
173152	OSP V4, 36CH 26-61, Fiber ITU COM AUX, SCA TPFR TPFRO, O/E Plan, Single AOM Kit	OSP AOM	1027684K
173154	OSP V4, 24CH 38-61, Fiber ITU COM AUX, SCA TPFR TPFRO, O/E Plan, Single AOM Kit	OSP AOM	1027685-38K
173155	OSP V4, 24CH 14-37, Fiber ITU COM AUX, SCA TPFR TPFRO, O/E Plan, Single AOM Kit	OSP AOM	1027685-14K
173158	OSP V4, 12CH 50-61, Fiber ITU COM AUX, SCA TPFR TPFRO, O/E Plan, Single AOM Kit	OSP AOM	1027686-50K
173159	OSP V4, 12CH 38-49, Fiber ITU COM AUX, SCA TPFR TPFRO, O/E Plan, Single AOM Kit	OSP AOM	1027686-38K
173160	OSP V4, 12CH 26-37, Fiber ITU COM AUX, SCA TPFR TPFRO, O/E Plan, Single AOM Kit	OSP AOM	1027686-26K
173161	OSP V4, 12CH 14-25, Fiber ITU COM AUX, SCA TPFR TPFRO, O/E Plan, Single AOM Kit	OSP AOM	1027686-14K

Amphenol offers a family of flatpack “Node Packs” for a wide range of DWDM applications. The Node Packs have integrated mounting features and fiber ports exiting one end of the package. The 900um fiber leads allow for custom connector terminations.

The compact, lightweight design provides a rugged package with high port count and component capacity that delivers improved density in field deployment applications.

These modules can be supplied with channel counts ranging from 4ch to 8ch and having a variety of different channel plans.



Node Pack

Features

- Four mounting holes enabling installation versatility
- Easy identification with color coded fibers and wavelength labels
- All ports are terminated with SC/APC connectors
- Single end fiber ports for easy routing
- Dual test ports (Tx and Rx)
- Express and upgrade ports
- 900um fiber leads

HFC Applications

CIFA	Description	Application	Part Number
4 Channel			
93387	DWDM, FS, OSP, 4ch, DTP, EXP, UPG, SC/APC, 1mtr, channels 21, 22, 24, 26	Node	1027017-C6
93388	DWDM, FS, OSP, 4ch, DTP, EXP, UPG, SC/APC, 1mtr, channels 28, 33, 36, 39	Node	1027017-CC
93389	DWDM, FS, OSP, 4ch, DTP, EXP, UPG, SC/APC, 1mtr, channels 44, 48, 52, 54	Node	1027017-CB
93390	DWDM, FS, OSP, 4ch, DTP, EXP, UPG, SC/APC, 1mtr, channels 57, 60, 61, 62	Node	1027017-CD
8 Channel			
93391	DWDM, FS, OSP, 8ch, DTP, EXP, UPG, SC/APC, 1mtr, channels 21, 22, 24, 26, 28, 33, 36, 39	Node	1027018-C2
93392	DWDM, FS, OSP, 8ch, DTP, EXP, UPG, SC/APC, 1mtr, channels 44, 48, 52, 54, 57, 60, 61, 62	Node	1027018-CA

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