



## FOSC-OC-XC

### Coarse wavelength division multiplexing in FOSC trays

---

The coarse wavelength division multiplexing technique combines (or multiplexes) two or more signals with different wavelengths in one common fiber. The same components can also be used to separate the wavelengths (de-multiplexing) at the remote location.

These devices are integrated into the CommScope FOSC range of fiber-optic splicing trays. This allows for easy integration in enclosures, wall-mount boxes, or ODFs.

#### Advantages

- Consistent performance
- Low optical loss
- Low polarization sensitivity
- Excellent mechanical and environmental characteristics
- Fast installation and commissioning

#### Applications

- CWDM upgrades in metro networks
- Increase the capacity between the central office and the headend in HFC networks
- CWDM overlay in PON architectures
- LAN

The CWDM components are based on TFF (thin-film-filter) technology

# FOSC-OC-XC

Coarse wavelength division multiplexing in FOSC trays

## Ordering Information

### FOSC - OC - X C X X XX X XX

#### Tray type

3	FOSC-D-TRAY-72: splice modules in the middle of the tray
6	FOSC-A-TRAY-24: "black box" concept
7	2 unit high FOSC-D tray with 12 connector patchpanel
8	1 unit high FOSC-D tray with 6 connector patchpanel

#### Coarse WDM components

#### Number of channels

1
2
4
8
A 4 channels + upgrade port
B 8 channels + upgrade port
C 4 channels + upgrade + 1310 nm port
D 8 channels + upgrade + 1310 nm port
E 4 channels + 1310 nm port
F 8 channels + 1310 nm port
G 10 channels + 1310 nm port
H 2 channels + upgrade
I 2 channels + upgrade + 1310 nm port
J 5 channels + upgrade + 1310 nm port
K 5 channels + upgrade
L 3 channels + upgrade
N 10 channels
O 18 channels
P 11 channels
U 2 channels + 1310
S 16 channels

#### Connector type

NN Not applicable

Min.return loss	Connector type			
	SC	FC	E2000	LC
50 dB (UPC)*	S1	F1		L1
60 dB (APC 8°)*	S2	F2	E9	L2
60 dB (APC 9°)*	S3			

\* UPC Ultra polished physical contact

\* APC Angled polished physical contact

#### Channel spacing/sequence

1	20 nm e.g. 1270, 1290, 1310, ...
2	40 nm e.g. 1270, 1310, 1350, ...
0	Once channel only

#### Starting wavelength

27	1270 nm
29	1290 nm
⋮	⋮
61	1610 nm

#### Type

M	Multiplexing
D	Demultiplexing
X	Double demux (for 2 fiber system)
Y	Double mux (for 2 fiber system)

# FOSC-OC-XC

## Coarse wavelength division multiplexing in FOSC trays

---

### Performance specifications

Refer to the CommScope CWDM specification proposal 5336.

#### Notes

- Refer to the FOSC trays ordering guide for tray dimensions.
- The FOSC-OC-3 tray has been provided with holders for heat-shrinkable splice protectors to splice the incoming fibers.
- The FOSC-OC-6 is a black box concept and therefore does not allow splicing the in- and outgoing fibers on this tray. Pre-installed tubes will route these fibers to another tray in the enclosure.
- The FOSC-OC-7 and FOSC-OC-8 provide pre-terminated in- and outputs of the CWDM. Outside plant fibers can be spliced on a standard FOSC tray to 900 micron pigtailed and be routed to the CWDM tray.
- Not all configurations are possible. Please consult your local sales engineer for confirmation.



---

[www.commscope.com](http://www.commscope.com)

Visit our website or contact your local CommScope representative for more information.

© 2015 CommScope, Inc. All rights reserved.

All trademarks identified by ® or ™ are registered trademarks or trademarks, respectively, of CommScope, Inc. This document is for planning purposes only and is not intended to modify or supplement any specifications or warranties relating to CommScope products or services.

PS-321703-AE (10/15) [Revised from TC 704]