



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 Tyco Electronics 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.

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

Connector type

NN Not applicable

Min.return loss	Connector type				
	SC	FC	E2000	LC	MU
50 dB (UPC)*	S1	F1		L1	U1
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 One 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)

Performance specifications

Refer to the Tyco Electronics 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.

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Tyco Electronics Raychem bvba
 Diestsesteenweg 692
 3010 Kessel-Lo, Belgium
 Tel 32-16 351 011 (USA)1-919-557-8900
 Fax 32-16 351 697 (USA)1-919-557-8498
 www.tycoelectronics.com
 www.telecomosp.com
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