COMMSCOPE®

FOSC OC
FOSC Trays with Optical Components

Singlemode wideband couplers/splitters are branching devices available in a wide range of styles and sizes to split and combine light. These devices are integrated into CommScope's FOSC range of fiber-optic splicing trays. This allows for easy integration in enclosures, wall-mount boxes, or FDFs.

The splitter components are based on FBT (fused biconic tapered) technology for low split ratio's. For higher split ratio's, planar waveguide technology is used.

Advantages

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

Applications

- Combining and splitting light signals
- Central office/headend
- Aerial pole
- LAN
- Network monitoring
- FTTH PON Networks

EnLighten
FTTH Solutions

For more information, visit **commscope.com**

Ordering Information

FOSC-OC - X X X X X XX

Tray Type

1	FOSC-A-TRAY-24, splice modules in the middle of the tray
2	FOSC-B-TRAY-24, splice modules in the middle of the tray
3	FOSC-D-TRAY-72, splice modules in the middle of the tray
4	FOSC-A-TRAY-S24, splices near the edges of the tray
5	FOSC-B-TRAY-S24, splices near the edges of the tray
6	FOSC-A-TRAY-24, "black box" concept

Splitter Type

A	Splitter grade A (fused biconical tapered)
P	Splitter grade P (standard planar technology)
O	Splitter grade O (low loss planar technology)

Number of Integrated Splitters

The maximum number of integrated splitters is for each configurations (tray type, splitter and splitter grade) included in the table below.

Split Ratio

00	Symmetrical
05 - 5/95	only available for 1x2 and 2x2 splitters
10 - 10/90	only available for 1x2 and 2x2 splitters
15 - 15/85	only available for 1x2 and 2x2 splitters
20 - 20/80	only available for 1x2 and 2x2 splitters
25 - 25/75	only available for 1x2 and 2x2 splitters
30 - 30/70	only available for 1x2 and 2x2 splitters
35 - 35/65	only available for 1x2 and 2x2 splitters
40 - 40/60	only available for 1x2 and 2x2 splitters
45 - 45/55	only available for 1x2 and 2x2 splitters

Number of Outputs Per Splitter

2 -	… x2 splitter
3 -	… x3 splitter
4 -	… x4 splitter
6 -	… x6 splitter
8 -	… x8 splitter
A -	… x10 splitter
C -	… x12 splitter
G -	… x16 splitter
W -	… x32 splitter

Number of Inputs Per Splitter

1 - 1x	… splitter
2 - 2x	… splitter

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Tray type	1		2		3		4		5		6	
Grade	A	P	A	P	A	P	A	P	A	P	A	P
1x2	4	-	4	-	12*	-	4	-	4	-	16*	-
2x2	3	-	3	-	9	-	2	-	2	-	16*	-
1x4	1	call	1	call	4	2	2	call	2	call	4	2
2x4	-	call	1	call	4	2	2	call	2	call	4	2
1x6	-	-	1	-	2	-	1	-	1	-	3	-
2x6	-	-	1	-	2	-	1	-	1	-	3	-
1x8	-	call	1	call	2	2	1	call	1	call	2	2
2x8	-	call	1	call	2	2	1	call	1	call	2	2
1/2x10	-	-	-	-	1	-	-	-	-	-	-	-
1/2x12	-	-	-	-	1	-	-	-	-	-	-	-
1/2x16	-	call	-	call	1	2	-	call	-	call	-	2
1/2x32	-	call	-	call	1	1	-	call	-	call	-	1

*If number of integrated splitters > = 10, use in name A for 10, B for 11, C for 12, D for 13, E for 14, F for 15, G for 16, W for 32.

Performance Specifications

Refer to the CommScope Telecom OSP specification RUD 5257 (grade A) and RUD 5330 (grade P, O) for performance information.

Notes:

- Refer to the FOSC closure trays ordering guide for tray dimensions

- All trays are provided with holders for heat-shrinkable splice protectors to splice the incoming fibers

- For asymmetrical split ratios on 1x4 or higher, contact your local sales engineer

- 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 closure box.

Example:
FOSC-OC-3A81200: FOSC D OMT tray with 8 1x2 splitters with symmetrical split ratio (50/50).

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