



FOSC-OC

Wideband couplers/splitters in FOSC trays

Single-mode 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 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

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

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.

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 grade

- 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 configuration (tray type, splitter and splitter grade) indicated in the table underneath.

Tray	1		2		3		4		5		6	
	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	☎	1	☎	4	2	2	☎	2	☎	4	2
2x4	-	☎	1	☎	4	2	2	☎	2	☎	4	2
1x6	-	-	1	-	2	-	1	-	1	-	3	-
2x6	-	-	1	-	2	-	1	-	1	-	3	-
1x8	-	☎	1	☎	2	2	1	☎	1	☎	2	2
2x8	-	☎	1	☎	2	2	1	☎	1	☎	2	2
1/2x10	-	-	-	-	1	-	-	-	-	-	-	-
1/2x12	-	-	-	-	1	-	-	-	-	-	-	-
1/2x16	-	☎	-	☎	1	2	-	☎	-	☎	-	2
1/2x32	-	☎	-	☎	1	1	-	☎	-	☎	-	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.

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

Number of inputs per splitter

- 1 1x ... Splitter
- 2 2x ... Splitter

Performance specifications

Refer to the Tyco Electronics specification RUD 5257 (grade A) and RUD 5330 (grade P, O) for performance information.

Notes

- Refer to the FOSC trays ordering guide for tray dimensions
- All trays are 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 closure box.

Example

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

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