

## 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 FOSC range of fiber-optic splicing trays. This allows for easy integration in enclosures, wall-mount boxes, or ODFs.

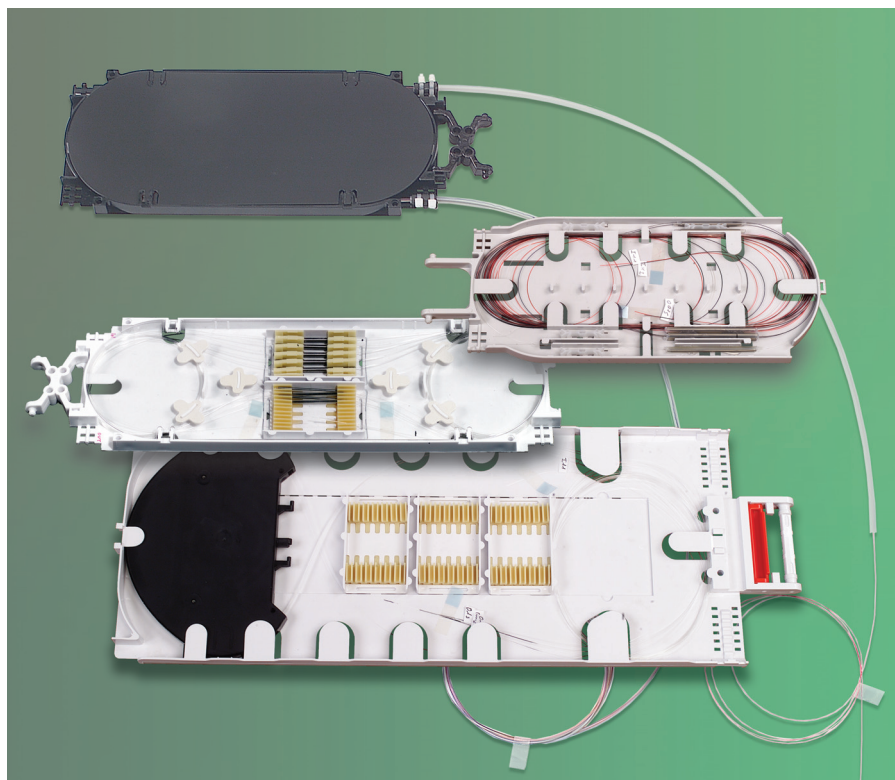
### Advantages

- 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

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   |   |
|--------|---|---|---|---|-----|---|---|---|---|---|-----|---|
| 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 | ☎ | 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

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

Performance specifications

Refer to the Tyco Electronics Telecom OSP 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).

tyco

Electronics

Tyco Electronics Raychem NV  
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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