COMMSCOPE®

OCC1 Splitters

Single-mode Planar and Fused Fiber-Optic Splitters

Passive optical components can have a significant impact on the efficiency of communication network roll-outs. The incorporation of fiber-optic splitters reduces the amount of fibers in the network, decreasing both the footprint and investment cost of network roll-outs. In existing networks, these components allow capacity upgrades at a relatively low cost without additional construction works. Adding components that monitor the network without disturbing any other signals reduces operation expenses.

Single-mode wideband couplers/splitters are branching devices used to split and combine light. CommScope offers wideband couplers/splitters in a wide range of styles, sizes and split ratios.

The OCC1 product range consists of splitters based on planar lightwave circuit (PLC) and fused biconic tapered (FBT) technologies. FBT splitters (OCC1A) are only used for the 1:2 and 2:2 split ratios (including those that are asymmetric). PLC is standard for all higher split ratios.

The splitters are packaged in a compact housing with different dimensions for 250 µm leads (CommScope housing A) and 900 µm leads (CommScope housing B). The 900 µm version can be connectorized.
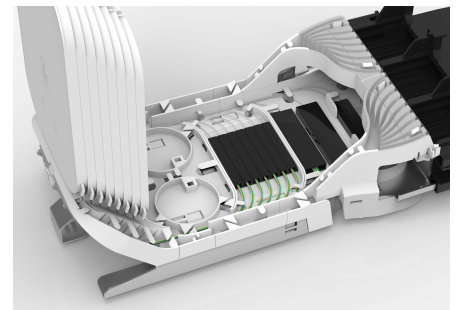
CommScope also offers OCC1 splitters pre-mounted in a field-installable holder; snaps on the holder allow easy, fast installation in FOSC trays and TENIO closures.

Advantages

- Consistent performance
- Low loss
- Small footprint
- Excellent uniformity

Applications

- Passive optical networks (PONs)
- Monitoring

Field Installable Splitter
shown in TENIO fiber closure

For more information, visit commscope.com

OCC1A Splitters

Fused Biconic Tapered Splitters; 1:2 and 2:2 Split ratios only

Ordering Information

OCC1A - X X X X - X X X X X X X

Number of Incoming Ports

| 1 | 1: ... |
| 2 | 2: ... (50/50 split ratio only) |

Number of outgoing ports

| 2 | ... :2 |

Split Ratio

00	50/50 symmetrical	25	25/75
05	5/95	30	30/70
10	10/90	35	35/65
15	15/85	40	40/60
20	20/80	45	45/55

Housing and Fiber Type

	Housing Type	Fiber Type	Length (mm)	Width (mm)	Height (mm)	Outer Diameter (mm)
ANQNA	A: Cylindrical	250 µm	54	-	-	3
ASENB	B: Cylindrical	900 µm	60	-	-	3
ANQNF	F: Field Installable	250 µm	55	7.5	6.8	-

Connector Type

	Connector		
Grade C*	SC	LC	None
UPC	S1	L1	NN
APC 8°	S2	L2	
APC 9°	S3		

* according to IEC 61755-1

Specifications

Output Cable Length

Housings A and B: 1 m

Housing F: 2.5 m

Performance Specifications

Please refer to TE RUD 5257 for performance specifications

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OCC1P/O Splitters

Planar Lightwave Circut (PLC) Splitters; 1:4 to 2:64 split ratios

Ordering Information

OCC1 X - X X X X X - X X X X X X X

Grade

P	Planar
O	Low Loss Planar

Number of Incoming Ports

1	1: ...
2	2: ...

Number of Outgoing Ports

04	... :4	32	... :32
08	... :8	64	... :64
16	... :16		

Split Ratio

00	symmetrical

Housing and Fiber Type

	Housing Type	Fiber Type
NQNQA	A	250 µm
SESEB*	B	900 µm
NQNQF	Field Installable	250 µm

* SESEB is **only** housing option that can be connected

Connector Type

	Connector		
Grade C**	SC	LC	None
UPC	S1	L1	NN
APC 8°	S2	L2	
APC 9°	S3		

** According to IEC 61755-1

Housing types and dimensions

Housing type A Fiber type: 250 µm	Length (mm)	Width (mm)	Height (mm)
Split ratio			
1:4 1:8	40	4	4
2:4 2:8 1:16	45	5	4
1:32 2:16 2:32	55	7	4
1:64 2:64	60	12	4

Housing type B Fiber type: 900 µm	Length (mm)	Width (mm)	Height (mm)
Split ratio			
1:4 1:8	60	7	4
2:4 2:8	70	7	4
1:16	60	12	4
1:32 2:16 2:32	80	20	6
1:64 2:64	100	40	6

Field installable Fiber type: 250 µm	Length (mm)	Width (mm)	Height (mm)
Split ratio			
N:4 N:8 1:16	55	7.5	6.8
2:16 N:32 N:64	69	19.1	7.5

Output cable length

Housings A and F (unconnectorized):   2.5 m
Housing B (connectorized):   1.5 m

Performance specifications:

Please refer to TE RUD 5330D for performance specifications.

Color-Coding

The input fiber is clear for split ratios 1xN and blue + orange for 2xN. Output fiber colors follow TIA 598 color-coding.
In consecutive order:

- Blue
- Orange
- Green
- Brown

- Slate
- White
- Red
- Black

For more technical options and order quantity information, please consult your local sales representative.

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