



# FSASA3 splitter tray

Field-installable splitter array sub-assembly

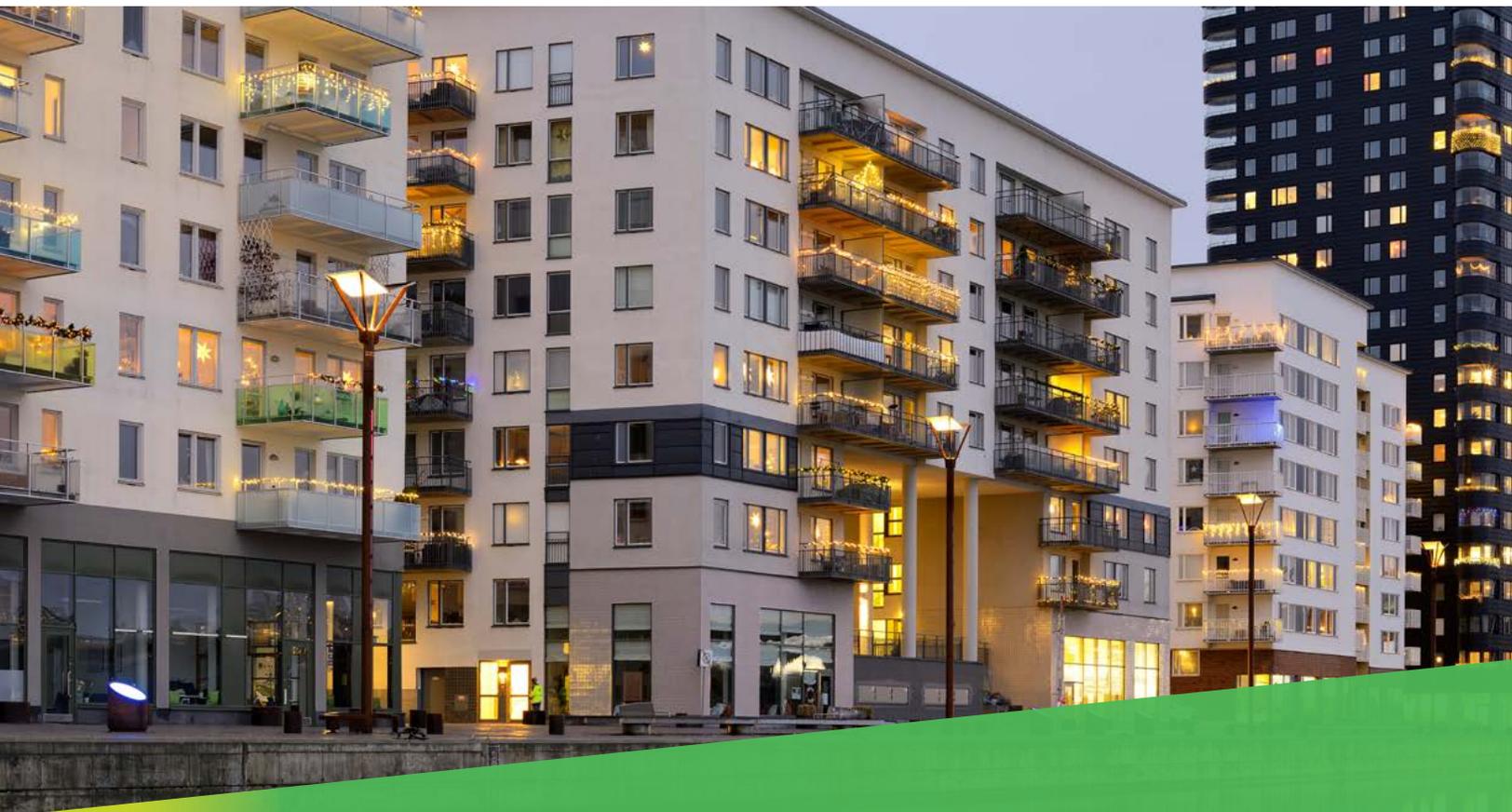
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# Overview

CommScope's FIST fiber management system provides a flexible platform for splicing and adding optical components in optical distribution frames, outside plant closures, and customer premises wall boxes. The standard solution for installing optical components in the FIST system is the FIST-FSASA3 splitter tray. Components are pre-installed in a robust black cassette suitable for outside plant conditions. As the fibers are attached to the cassette, it ensures failure-free installation and better protects the components against retention forces. The components can be used anywhere in the network and with a wide variety of CommScope products.

CommScope redesigned the FIST-FSASA3 splitter tray to add new features that reduce footprint and installation time. The height was changed from 8 mm (for single element) to 4 mm (for single circuit) while still offering split ratios up to 2:32. Moreover, an on-tray splice capacity for the input fiber(s) is added both for SMOUV and ANT splice protectors. For more flexibility during installation, output fibers can be rerouted to the other side, using the island in the middle of the tray. Designed for use both in indoor and outside plant environments. So, they're equally up to the task of splitting and combining light signals in the field to provide new service at multi-dwelling units (MDUs) as they are for monitoring network activities in the central office.

CommScope's FSASA3 splitter tray portfolio is based on planar lightwave circuit (PLC) and fused biconic tapered (FBT) technologies. PLC splitters support 1:N and 2:N configurations where N=1 to 32. FBT couplers are only available in 2:2 split ratios. CommScope's splitters/couplers are packaged in a compact housing using 250  $\mu\text{m}$  leads. Input fiber color coding is clear. Output fiber color coding is blue, orange, green, brown, slate, white, red, and black.



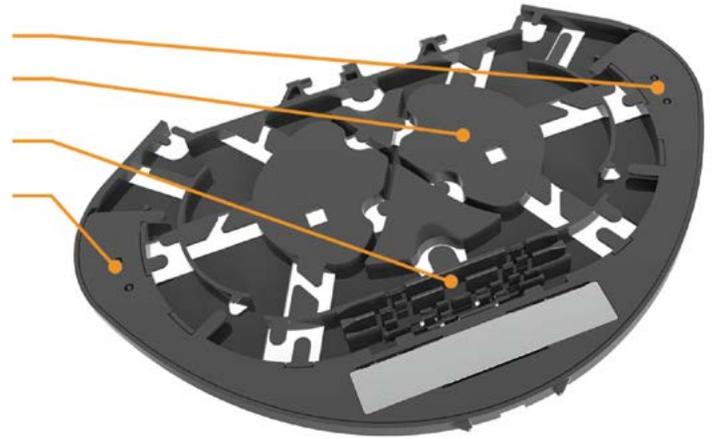
## Advantages

- Low attenuation (insertion loss)
- Consistent performance
- Small footprint
- Excellent uniformity
- Low polarization dependent loss (PDL)

## Applications

- Passive optical networks (PONs)—FTTH and FTTx
- Telecommunications networks
- CATV / MSO

Output fibers fixation point  
 Island to re-route the output fibers to opposite side  
 2 SMOUV and 2 ANT holders to store input splices  
 Input fiber fixation



### FSASA3 splitter tray optical performance

Split ratio	Bandpass (nm)	Insertion loss max (dB)	Uniformity max (dB)	RL min (dB)	PDL max (dB)	Directivity min (dB)
<b>1x2 (50/50)</b>	1260-1650	3.7	0.6	55	0.2	55
<b>1x4</b>	1260-1650	7.1	0.7	55	0.2	55
<b>1x8</b>	1260-1650	10.4	1.0	55	0.2	55
<b>1x16</b>	1260-1650	13.7	1.3	55	0.3	55
<b>1x32</b>	1260-1650	17.0	1.6	55	0.3	55
<b>2x2 (50/50)</b>	1260-1650	4.2	1.2	55	0.3	55
<b>2x4</b>	1260-1650	7.5	1.4	55	0.3	55
<b>2x8</b>	1260-1650	10.9	1.6	55	0.3	55
<b>2x16</b>	1260-1650	14.3	2.0	55	0.4	55
<b>2x32</b>	1260-1650	17.7	2.4	55	0.4	55

# Ordering information

## FSASA3 splitter tray - 1:x split ratio

MID	Description
<b>1:2 Split ratio</b>	
760253738	FIST-FSASA3-SC-102-1P-S, tray containing 1x 1:2 PLC splitter
EG7897-000	FIST-FSASA3-SC-102-2P-S, tray containing 2x 1:2 PLC splitters
<b>1:4 Split ratio</b>	
CV5835-000	FIST-FSASA3-SC-104-1P-S, tray containing 1x 1:4 PLC splitter
CV5837-000	FIST-FSASA3-SC-104-2P-S, tray containing 2x 1:4 PLC splitters
<b>1:8 Split ratio</b>	
CV5839-000	FIST-FSASA3-SC-108-1P-S, tray containing 1x 1:8 PLC splitter
CV5841-000	FIST-FSASA3-SC-108-2P-S, tray containing 2x 1:8 PLC splitters
<b>1:16 Split ratio</b>	
CV5843-000	FIST-FSASA3-SC-116-1P-S, tray containing 1x 1:16 PLC splitter
<b>1:32 Split ratio</b>	
CV5845-000	FIST-FSASA3-SC-132-1P-S, tray containing 1x 1:32 PLC splitter

## FSASA3 splitter tray - 2:x split ratio

MID	Description
<b>2:2 Split ratio</b>	
CV5847-000	FIST-FSASA3-SC-202-1A-S, tray containing 1x 2:2 FBT splitter
<b>2:4 Split ratio</b>	
CV5849-000	FIST-FSASA3-SC-204-1P-S, tray containing 1x 2:4 PLC splitter
<b>2:8 Split ratio</b>	
CV5851-000	FIST-FSASA3-SC-208-1P-S, tray containing 1x 2:8 PLC splitter
<b>2:16 Split ratio</b>	
CV5853-000	FIST-FSASA3-SC-216-1P-S, tray containing 1x 2:16 PLC splitter
<b>2:32 Split ratio</b>	
CV5855-000	FIST-FSASA3-SC-232-1P-S, tray containing 1x 2:32 PLC splitter

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