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## Applications

Planar Lightwave Circuit (PLC) fibre optic splitters are an essential component of any optical network. These devices divide a single incoming signal into multiple outputs, enabling data transmission across large distances.

Built with Fused Biconical Tapered (FBT) technology, PLC splitters minimise insertion loss and crosstalk, enhancing stability, reducing bit-error rates, and improving system performance. These splitters work by utilising an angle polished connector (APC) to direct light into one port and divide it among multiple outputs.

This combination offers reliability, high isolation between output ports, low insertion loss, good channel uniformity, making them ideal for Passive Optical Networks (PONs) and Fibre To The Home (FTTH) applications, ensuring optimal data delivery and network performance.

## Products

### PLC Optical Cartridge SC/APC Splitters

- SC/APC connections
- Modular
- Compact design
- For use with our containment boxes
- LGX (Light Guide Cross Connect) compatible



1 x 16 Single Mode Simplex PLC  
Cartridge Splitter SC/APC  
Standard LGX Cassette 14dB

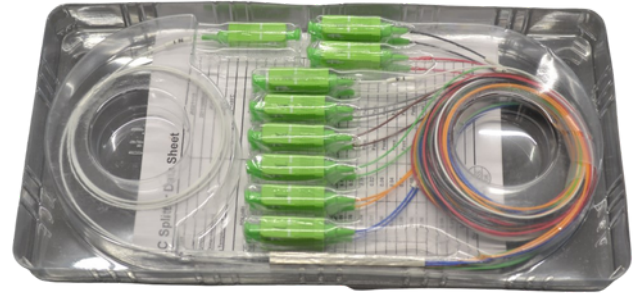
[BFS-CAR-SCA-16](#)

<a href="#">BFS-CAR-SCA-2</a>	1 x 2 Single Mode Simplex PLC Cartridge Splitter SC/APC Standard LGX Cassette 4dB
<a href="#">BFS-CAR-SCA-4</a>	1 x 4 Single Mode Simplex PLC Cartridge Splitter SC/APC Standard LGX Cassette 7dB
<a href="#">BFS-CAR-SCA-8</a>	1 x 8 Single Mode Simplex PLC Cartridge Splitter SC/APC Standard LGX Cassette 10dB
<a href="#">BFS-CAR-SCA-16</a>	1 x 16 Single Mode Simplex PLC Cartridge Splitter SC/APC Standard LGX Cassette 14dB
<a href="#">BFS-CAR-SCA-32</a>	1 x 32 Single Mode Simplex PLC Cartridge Splitter SC/APC Standard LGX Cassette 17dB

Making light work of Fibre

## PLC Optical Mini SC/APC Splitters

- SC/APC connectors
- Securely store in network cabinet
- Network racks for storing available



8-Way Single Mode Simplex OS2 Fibre  
Optical Mini LSZH Splitter 900µm SC/APC

[BFS-MINI-SCA-8](#)

<b>BFS-MINI-SCA-2</b>	<b>2-Way Single Mode Simplex OS2 Fibre Optical LSZH Splitter 900µm SC/APC</b>
<b>BFS-MINI-SCA-4</b>	<b>4-Way Single Mode Simplex OS2 Fibre Optical LSZH Splitter 900µm SC/APC</b>
<b>BFS-MINI-SCA-8</b>	<b>8-Way Single Mode Simplex OS2 Fibre Optical LSZH Splitter 900µm SC/APC</b>
<b>BFS-MINI-SCA-16</b>	<b>16-Way Single Mode Simplex OS2 Fibre Optical LSZH Splitter 900µm SC/APC</b>
<b>BFS-MINI-SCA-32</b>	<b>32-Way Single Mode Simplex OS2 Fibre Optical LSZH Splitter 900µm SC/APC</b>

## Specifications

Part Code	Optical Cartridge Splitters					Optical Mini Splitters				
	BFS-CAR-SCA-2	BFS-CAR-SCA-4	BFS-CAR-SCA-8	BFS-CAR-SCA-16	BFS-CAR-SCA-32	BFS-MINI-SCA-2	BFS-MINI-SCA-4	BFS-MINI-SCA-8	BFS-MINI-SCA-16	BFS-MINI-SCA-32
Inputs	1					1				
Outputs	2	4	8	16	32	2	4	8	16	32
Connections	SC/APC					SC/APC				
Operating Wavelength (nm)	1260-1650					1260-1650				
Fibre Type	G657A1					G657A1				
Insertion Loss (dB)	3.8/4.0	7.2/7.4	10.3/10.7	13.5/13.7	16.5/16.9	3.8/4.0	7.2/7.4	10.3/10.7	13.5/13.7	16.5/16.9
Loss Uniformity (dB)	<0.4	<0.6	<0.8	<1.0	<1.5	<0.4	<0.6	<0.8	<1.0	<1.5
Polarisation Dependant Loss (dB)	<0.1		<0.2	<0.25		<0.1		<0.2	<0.25	
Return Loss (dB)	>55/50					>55/50				
Directivity (dB)	>55/50					>55/50				
Wavelength Dependant Loss (dB)	<0.3				<0.5	<0.3				<0.5
Operating/Storage Temperature (°C)	-40/85					-40/85				