

Fibre Optic Splitters



Fibre Optic passive optical splitters offer a simple, convenient and compact method of splitting a fibre signal over a pair of fibres.

Optical splitters work by allowing an optical signal traveling through a fibre to be divided between multiple output circuits. Optical splitters are a key component in many passive optical networks including FTTx installations.

Applications

- GPON & GEAPON Fibre Networks
- FTTx Networks
- CATv and Subscriber Loops
- Fibre Optic Instrumentation
- Fibre Sensors

Features & Benefits

- Precision terminations and low insertion loss
- Compact inline unit allows for seamless integration into installations
- Passive operation requires no energy or cooling
- Wide operating temperature allows for remote installations
- Epoxy free optical path
- Specifically designed blister packaging ensures device safety during storage and delivery
- 3 and 4 port variants available in a range of termination options
- Various coupling ratios available
- Singlemode dual band and multimode splitters available

Active | Passive | Test Equipment | Tooling | Cable | Fibre Management

For further information:
www.fibreoptic.com.au
+61 3 9757 3000

Technical Specifications

Description	Singlemode Dual Wideband Splitter	Multimode Fibre Splitter
Coupling Ratio	1 - 50	1 - 50
Directivity	≥ 55 dB	> 35 dB
Return Loss	≥ 55 dB	NA
Operating Temperature	-40 ~ 85 °C (-20 ~ 70 °C for package C)	-40 ~ 85 °C
Storage Temperature	-40 ~ 85 °C	-40 ~ 85 °C
Fibre Type	Singlemode SMF-28E, G657A	Multimode 50/125 or 62.5/125
Port Configuration	1 x 2, 2 x 2	1 x 2, 2 x 2
Excess Loss (typical)	0.15 dB	0.7 dB
Maximum Insertion Loss	3.6 dB	4.0 dB
Uniformity (max)	0.4 dB	0.8 dB
Polarization Sensitivity	0.1 dB	NA
Operating Wavelength	1310 / 1550 ± 40 nm 1310 / 1585 ± 40 nm	850 1300
Fibre Jacket	B: 900um C: 3mm	B: 900um C: 3mm

Ordering Information

OS - S 35 LC SCA - 50 - C - 1

Optical Splitter	Mode	Wavelength	Connectors End A & B	Split Ratio	Casing	Length (m)
S	9/125	35: 1310/1550 nm	SC: SC/UPC	50: 50 : 50	B: Ø3 x 60mm Tube	
M1:	62.5/125	36: 1310/1585 nm	SCA: SC/APC	30: 30 : 70	C: 90 x 20 x 9.5 mm case	
M3:	50/125	85: 850 nm	LC: LC/UPC	10: 10 : 90		
		13: 1300 nm	LCA: LC/APC	05: 5 : 95		
			ST: ST/UPC	01: 1 : 99		
			FC: FC/UPC			
			FCA: FC/APC			

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