

# 1 × 2 (2 × 2) Dual Window Multimode Fibre Splitter

V.3.5

## Description

FibreFab offers a range of reliable FBT splitters for use within Telecommunication networks and data applications. FibreFab splitter provide excellent specifications as well as complying to and exceeding Telcordia GR-1221-CORE and GR-1209-CORE standards

## Features

- ▶ **Broad operating band**
- ▶ **Low excess loss**
- ▶ **High stability and reliability**
- ▶ **Optimised for VCSEL or LED light sources**

## Applications

- ▶ **Multimode fibre communication systems**
- ▶ **LAN**
- ▶ **Testing instruments**
- ▶ **Optical fibre sensors**
- ▶ **10G Ethernet – select VCSEL light source**

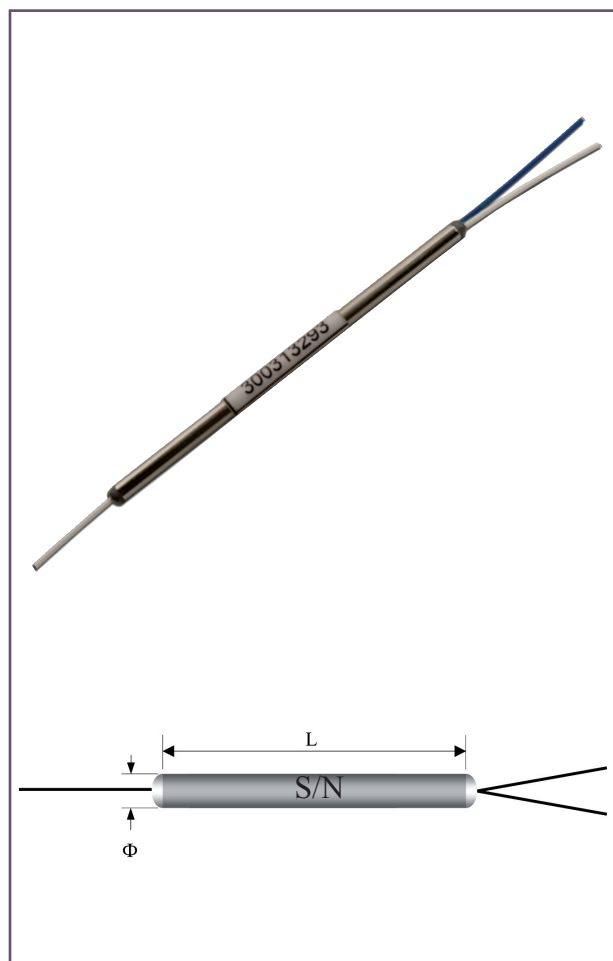
## Technical Specification

Parameter	Premium	Standard
Operating wavelength (nm)	850 and 1300	
Operating bandwidth (nm)	±40	
Typical excess loss (dB)	0.4	0.7
Insertion loss (dB)	50/50	≤3.7/3.7
	40/60	≤4.7/2.7
	30/70	≤6.0/2.1
	20/80	≤7.8/1.4
	10/90	≤11.2/0.9
	5/95	≤14.5/0.7
Uniformity (50/50) (dB)	2/98	≤18.6/0.6
	1/99	≤22.0/0.5
		≤22.8/0.8
Directivity (dB)	≥40	
Operating temperature (°C)	-40 ~ +85	
Fibre type (µm)	50/125 or 62.5/125 Multimode	
Test light source	850nm VCSEL or 850nm and 1300nm LED	
VCSEL test will be required for 10G applications		

\*The above specification is without connector

\*\*Performance will be different when choosing VCSEL or LED test light source

\*\*\*Other specifications can be supplied to customer requirements.



## Package information

Parameter	
Configuration	1×2 or 2×2
Fibre lead length	1 meter, others on request
Dimensions(Φ×L)	250µm bare fibre
	900µm loose tube
	900µm/2mm/3mm loose tube

\*Other package dimensions can be made on customer request.



+44 (0) 870 127 3330



+44 (0) 870 127 3331



sales@fibrefab.com



www.fibrefab.com

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## Part Number Generator

Configuration		Wavelength	Split Ratio	Package Style	Input Cable Type	Output Cable Type	Fibre Type	Light Source	Input Connector	Output Connector	Lead Length Input	Lead Length Output
<b>FMS</b>												
102	1X2	A 850nm/1300nm	A 50:50	A ABS Box	0 250µm Bare Fibre	0 250µm Bare Fibre	1 62/125	L LED	A None	A None	1 1m	1 1m
202	2X2	B 850nm	B 40:60	S Steel Pipe	1 900µm Loose Tube	1 900µm Loose Tube	2 50/125	V VCSEL	B E2000 /UPC	B E2000 /UPC	2 1.5m	2 1.5m
			C 30:70		2 2mm Cable	2 2mm Cable			C FC/UPC	C FC/UPC	3 2m	3 2m
			D 20:80		3 3mm Cable	3 3mm Cable			D LC/UPC	D LC/UPC	4 2.5m	4 2.5m
			E 10:90						E MU/UPC	E MU/UPC	5 3m	5 3m
			F 5:95						F SC/UPC	F SC/UPC		
			G 3:97						G ST/UPC	G ST/UPC		
			H 2:98									
			I 1:99									

Note: VCSEL is only available for 850nm

## Example Part Number

<b>FMS</b>	102	A	A	S	1	1	2	L	A	A	1	1
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This part number generator has created a 1X2 multimode 50:50 50/125 splitter 850/1310nm in a steel pipe with 1m 900µm pigtailed and FC/UPC connectors.

Only 250µm bare fibre and 900 µm splitters can be supplied in a steel tube. 2mm and 3mm must be supplied in an ABS box, please see packaging dimension overleaf.