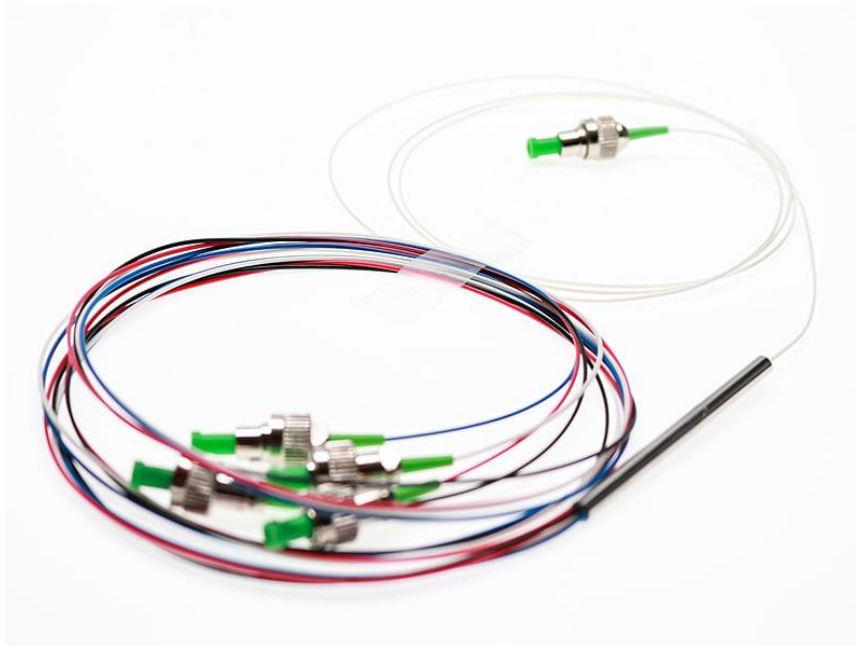


1550nm 3X3 Single Mode Fiber Coupler



● Product Description

It is a high-performance coupler designed for splitting light in the near-infrared wavelength range, covering the entire communication band (1260-1620nm). We also offer high-cost-performance narrowband couplers with center wavelengths of 1310nm, 1392nm, 1480nm, 1512nm, 1550nm, 1650nm, and 1742nm, with a bandwidth of ± 20 nm. Our couplers, available with connectors or bare fiber, can handle a maximum power of 1W, and are manufactured using a one-time fusion tapering process. These couplers are reliable, compact in size, and ideal for fiber optic sensor application



● Product features

Fusion fiber coupler, used for 1260-1620nm、 Coupling ratio of any desired coupling ratio、 Bidirectional coupling (either end can be used as the input end)、 2.0 mm narrow-key FC/PC or FC/APC connector、 Each broadband coupler comes with its own test report

● Part Number

MP-FBC-1550-A-33-SA-S

● Application area

Visible light communication、 Power monitoring、 Optical multiplexing、 Testing instruments

● Core parameters

Center Wavelength	Product structure	Connector
1550nm	3x3	FC/APC

● General Parameters

Parameters

Parameters	Unit	1×3	3×3
Type Structure		1×3/3×3 Fusion Spliced Fiber Coupler	



Operating Wavelength		nm	1310 or 1550	1310 and 1550	1310 or 1550	1310 or 1550
Bandwidth		nm	±40	±40	±15	±40
Maximum IL	33.3/33.3/33.3	%	5.40/5.40/5.40	5.80/5.80/5.80	5.60/5.60/5.60	5.80/5.80/5.80
	10/45/45	%	11.00/4.10/4.10	11.00/4.20/4.20	--	--
	2.5/2.5/95	%	0.60/18.00/18.00	0.60/18.00/18.00	--	--
PDL		dB	≤0.15	≤0.25	≤0.25	≤0.25
Uniformity Loss		dB	≤0.80	≤1.20	≤1.00	≤1.30
Return Loss		dB	≥50.00			
Directionality		dB	≥55.00			
Operating Temperature		Deg.	-5-75			
Storage Temperature		Deg.	-40-85			
Fiber Length		m	1.00±0.10			
Fiber Type			SMF-28® Ultra			
Fiber Diameter		um	250	900		
Package Size		mm	3.0×35,3.0×45		3.0×54,4.0×60	

Note:

All test results do not include connectors.



Better parameters or other requirements can be customized.

Ordering info

MP-FBC - W□□□□-S○-CR▽-☆-△-XX

W□ □□□: Wavelength

1310:1310nm

1550:1550nm

S○: Port Structure

13:1x3

33:3X3

CR▽:

111: 1:1:1

211: 2:1:1

☆ :

Pigtail Length 05:0.5m

1: 1m

10:10m

△: Loose Tube

B:Bare Fiber

9:900um Loose Tube

20:2mm Loose Tube



30: 2mm Loose Tube

XX: Fiber and Connector Type

SA=SMF-28E+ FC/APC

SP=SMF-28E+ FC/PC

PA=PM Fiber+ FC/APC

PP=PM Fiber+ FC/PC

PN#	Description
MP-FBC-1550-A-33-SA-S	3X3 Single-mode Fiber Coupler, Operating Band: 1550nm, 3X3, Splitting Ratio: 1:1;1, 1-meter tail fiber, 900µm loose tube, SMF-28E fiber, FC/APC connector
MP-FBC-1550-A-13-SA-S	1X3 Single-mode Fiber Coupler, Operating Band: 1550nm, 1X3, Splitting Ratio: 1:1;1, 1-meter tail fiber, 900µm loose tube, SMF-28E fiber, FC/APC connector
MP-FBC-1310-A-33-SA-S	3X3 Single-mode Fiber Coupler, Operating Band: 1310nm, 3X3, Splitting Ratio: 1:1;1, 1-meter tail fiber, 900µm loose tube, SMF-28E fiber, FC/APC connector
MP-FBC-1310-A-13-SA-S	1X3 Single-mode Fiber Coupler, Operating Band: 1310nm, 1X3, Splitting Ratio: 1:1;1, 1-meter tail fiber, 900µm loose tube, SMF-28E fiber, FC/APC connector