Multi-Core Fiber Combiner / Splitter

I&Optics' multicore fiber combiner / splitter can combine a group of signals in several fibers into a single multicore fiber or split several signals in a single multicore fiber into a group of conventional single mode fibers respectively. It features low insertion loss, high directivity / crosstalk and wavelength insensitivity. It can be used in lasers, telecom, secret communications and R&D.

Specification

Parameter	Test Condition	Unit	Value
Fiber Number on Port 1	-	-	2, 4, 7, 8 or Specify
Inner Core Number on Port 2	-	-	2, 4, 7, 8 or Specify
Nominal Center Wavelength	-	nm	1310, 1550 or Specify
Operating Wavelength Range	Port 1 to Port 2	nm	+/-50 or Specify
Max. Insertion Loss	Port 1 to Port 2	dB	1.2, Typ. 0.9
Min. Directivity	Adjacent or Non-Adjacent Core	dB	45
Max. Thermal Stabiblity	Port 1 to Port 2	dB/℃	0.005
Min. Return Loss	Port 1 and Port 2	dB	50
Max. Power Handling Rate	CW	mW	300 / Core or Specify
Fiber Type	-	-	SMF-28e Fiber on Port 1 and Multicore Fiber for Port 2
Max. Fiber Tensile Load	-	N	5
Operating Temperature	-	℃	-5 to 70
Storage Temperature	-	℃	-40 to 85

Above values are for device without connectors. For device with connectors, IL will be 0.7dB higher and return loss will 5dB lower for single mode port.

Package Dimensions

Detailed Informations and Dimensions Please Contact Us. Customized Design Is Available Upon Request.

Ordering Informations

MFCS-①-②-③-④-⑤-⑥

① - Center Wavelength
31 - 1310nm
55 - 1550nm
SS - Specify

② - Fiber Number on Port 1
2 - 2
4 - 4
7 - 7
8 - 8
S - Specify

③ - Fiber Type on Port 2
S - Specify

④ - Connector Type on port 1/2
1 - FC/UPC (only for port 1)
2 - FC/APC (only for port 1)
3 - SC/UPC
4 - SC/APC
5 - LC/UPC

⑤ - Fiber Jacket on Port 1/2
B - Bare Fiber
L - 900um Loose Tube

⑥ - Fiber Length
0.8 - 0.8m