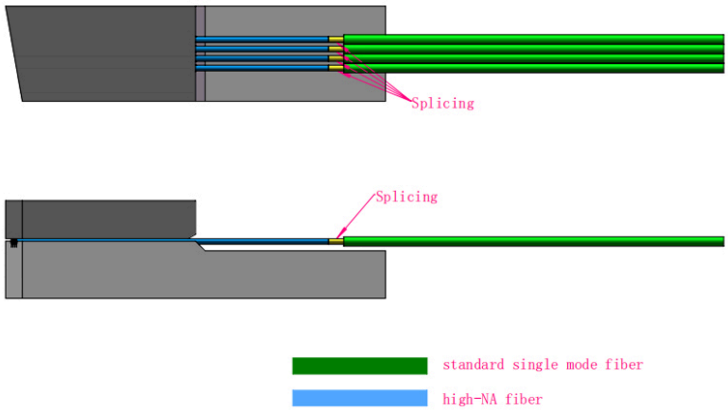
MFD Matched Linear Fiber Array



> Regular 10um fibers can hardly been coupled efficiently when they are used to align with silicon waveguild. Therefore, fibers with small mode field diameter (MFD) come into use. It can be fusion spliced to SMF28 fiber, working as a connecting bridge between regular 10um fiber and silicon chip. MEISU's fiber MFD matched fiber array can be UHNA fiber spliced to regular sized SM fiber or PM fiber, keeping the splicing point as close as 7mm to the fiber array facet.

MFD Matched Fiber Array Features

Accurate fiber core spacing
Matched from 10um to 3~5um
Customized configurations

MFD Matched Fiber Array Specifications

Parameter	Unit	Value			
V-groove Material	-	Quartz or Pyrex			
Max channel count	ch	32			
MFD@1310 SMF	μm	3.3	4.0	6.4	
MFD@1550 SMF	μm	3.2	4.0	4.8	6.5
MFD@1310 PMF	μm	4.0			
MFD@1550 PMF	μm	3.5		4.8	
Splicing Loss	dB	0.3-0.8dB			
PER	dB	＞18			
Min. VG Length	mm	5			
Key Orientation	-	Slow/Fast Axis or customer specified			
Max. Axis Alignment	-	±3			
Operating Temperature	°C	0~+70			
Storage Temperature	°C	-40~+85			

How It Works

MFD matched Fiber Array is assembled by fusing two types of fiber with different MFD (Mode Field Diameter) together, to realize optical transmission from ordinary single-mode fiber to small fiber mode field, polarization maintaining optical fiber (/products/pm-fiber-array/) to ordinary single mode fiber and single mode fiber to multimode optical fiber, etc.