



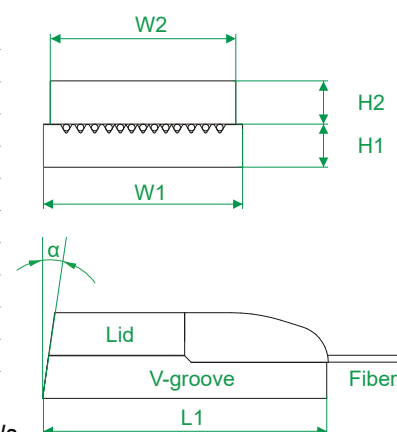
Fiber Array Units

One-Dimensional Arrays for Coupling to Photonic Integrated Circuits

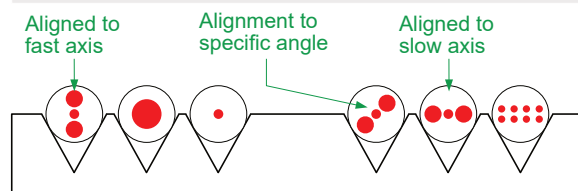
We design and manufacture precise fiber arrays for data centers and sensing applications. The arrays are widely configurable. Customers can specify many parameters such as number of channels, fiber pitch, fiber type, front face polishing type or outer dimensions. Fiber array units feature minimal fiber core offsets thanks to the use of our own extremely precise v-grooves and lids.

	SM Telecom Version	MM/PM/MCF/SM-SPEC*
Channels	specified by customer	
V-Groove/lid material	borosilicate glass, fused silica, silicon, metal	
V-Groove pitch [μm]	82, 127, 250 or customized	
Front face polishing [°]	0°, 8° or customized	
Operating wavelength [nm]	1260-1650	400-1950
Connectors	MTP®, MT, MMC®, TMT, FC, LC, SC, E2000	
Anti-reflection / reflection coating	available on request	
Fiber core offset ** μm]	<0,7 (typ. 0,5)	<1 (typ. 0,7)
Extinction ratio [dB]	-	≥25 @ >630nm
Angle misalignment of stress rods [°]	-	±0,5
Operating temperature [°C]	-40 +85	-20 +70

* Fiber type and manufacturer must be approved in advance ** Limited by number of channels

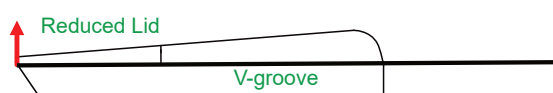


Mixed Fiber Array



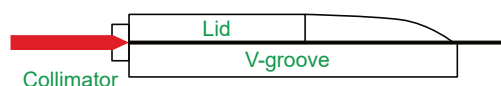
Is Populated with different fiber types within a single array according to customers' requests incl. PM fiber which is precisely oriented with high PER.

Low Profile Fiber Array for In-Plane Coupling



Front face is polished with an angle which provides vertical launch of the beam to a grating coupler on the chip.

Collimating Fiber Array



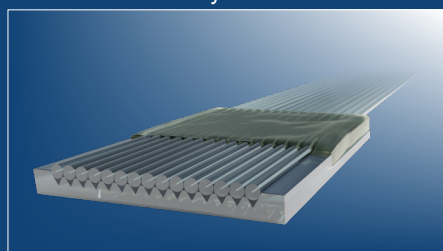
Actively aligned Micro Lens Array (MLA) to provide collimated beams with high pointing accuracy.

Lid-Less Fiber Array

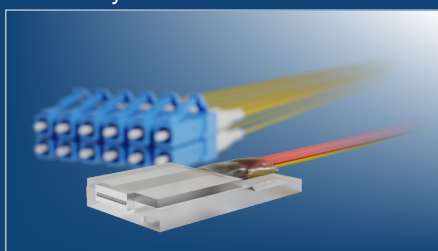


Fibers are placed in v-grooves with a high precision without a lid or with a reduced lid covering the fibers.

Lid-Less Fiber Array



Fiber Array with Connector Interface



Short Fiber Array Jumper

