

3D Optofan™ Multicore Fiber Fanout

Spatial multiplexing and de-multiplexing

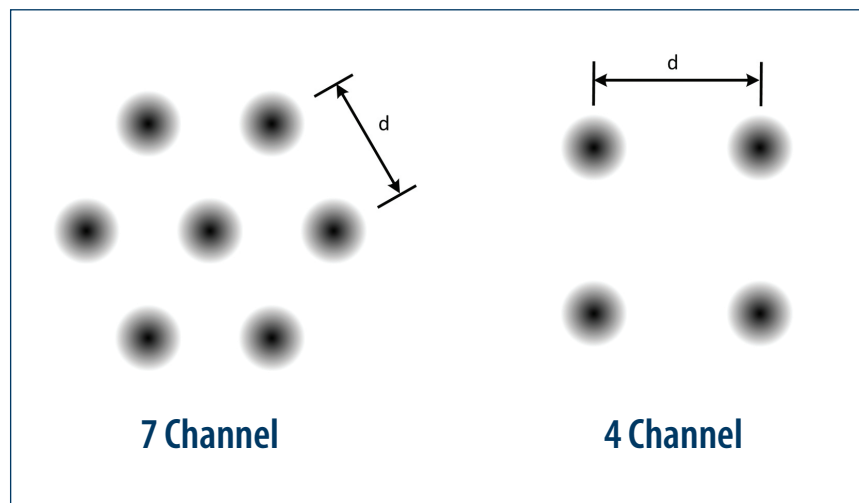
The 3D Optofan™ series of products are a new class of glass components designed to interface multicore fibers (MCFs) and single mode fibers (SMF) in a monolithic, scalable, compact solution with best in class fiber alignment precision.

Our unique technology consists of laser scribed 3D waveguides which act as an interface between MCFs and SMFs. This compact and fully packaged solution easily integrates with existing technology to minimise disruption and maximise performance.







Optofan™ is compact and fully packaged for plug and play integration and comes complete with MCF and SMFs in both 4 and 7 channel configurations.

Optofan™ can be customised to suit different interface geometries and other core layouts. This is especially important where users supply their own fiber and core positioning accuracy is key.

Using Optofan™, users can dramatically increase the amount of data transferred across an optical fiber whilst minimising space. Contact us to find out more.

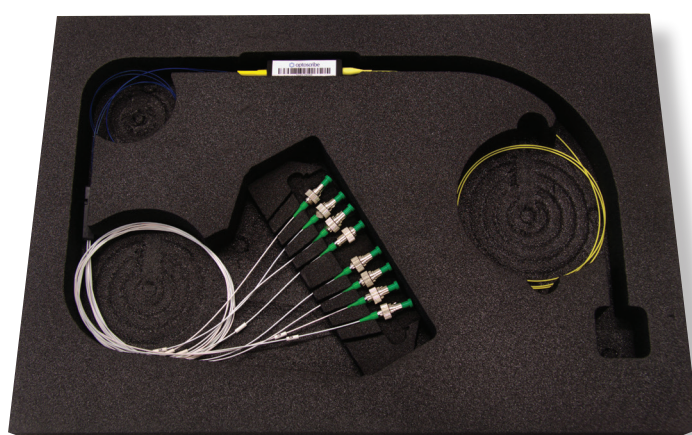


Key Advantages

-  Broad flat spectral response
-  Minimal insertion loss
-  Scalable for volume applications
-  Significantly smaller than alternative solutions
-  Provision for custom geometries
-  Precision core positioning

3D Optofan™ Specifications

Parameter	4 Channels	7 Channels	8 Channels	19 Channels	Typical	Notes
Fully packaged Insertion Loss	< 1 dB	< 1 dB	Dependent on fiber	Dependent on fiber	0.7 dB	
Chip Insertion Loss	< 1 dB	< 1 dB	< 1 dB	< 1.5 dB		
Polarisation Dependant Loss	< 0.1 dB	< 0.1 dB	< 0.1 dB	< 0.1 dB	0.05 dB	
Core Positioning Accuracy	< ± 50 nm	< ± 50 nm	< ± 50 nm	< ± 50 nm		
Crosstalk	< -50 dB	< -50 dB	< -50 dB	< -50 dB		Actual X-talk in MCF transmission line dependent upon fiber
Operating Wavelength	1300 – 1650 nm	1300 – 1650 nm	1300 – 1650 nm	1300 – 1650 nm		Wider range available
Single Mode Fiber Type (Input)	G.657.AI 1.5 meters supplied	G.657.AI 1.5 meters supplied	G.657.AI 1.5 meters supplied	G.657.AI 1.5 meters supplied		
MCF Type	Fibercore SM 4C or customer supplied	Fibercore SM 7C or customer supplied	Customer supplied	Customer supplied		Typical core spacing 35 µm
SMF Connectors	SC/UPC or FC/APC	SC/UPC or FC/APC	SC/UPC or FC/APC	SC/UPC or FC/APC		Other connectors may be available
Operating Temperature Range	0-80°C	0-80°C	0-80°C	0-80°C		
Package Dimensions	50 x 15 x 10 mm	50 x 15 x 10 mm	50 x 15 x 10 mm	50 x 15 x 10 mm		



For more information contact us.



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