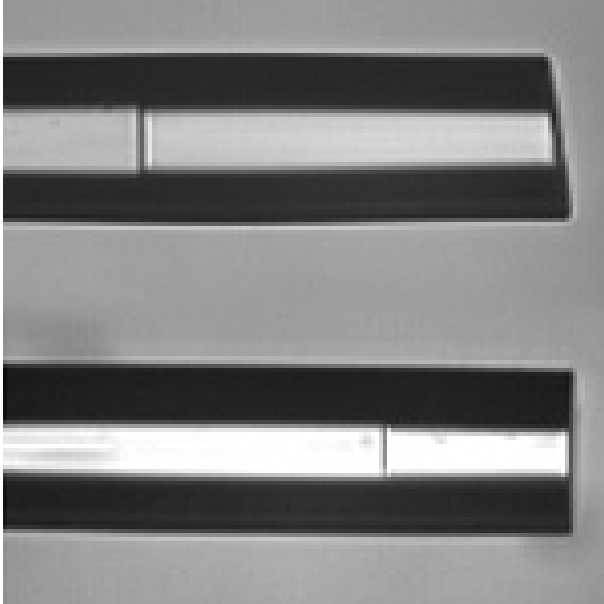




LENSED FIBER BUNDLES & FIBER ASSEMBLIES



IDIL Fibres Optiques supplies lensed fibers designed to focus or collimate light.

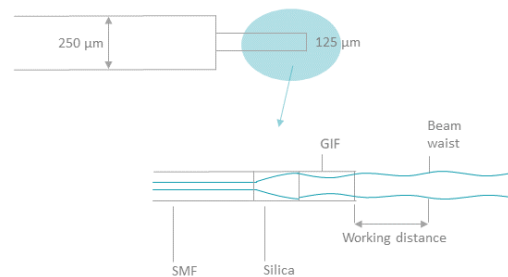
Our product is a small size fiber optic. It appears as an optical fiber (250 μm) with a several millimeters stripped extremity.

The ability of getting a mode diameter which is close to 60 μm leads to high positioning tolerance and high coupling ratio. These optical components are also available with end surface coatings such as angled polished point which allows a less than -50 dB return loss as well as high power carrying.

Furthermore, lensed fibers can be inserted into different types of optical connectors or ferrules. Lensed fibers developed by IDIL Fibres Optiques constitute an excellent way to couple up optical fibers and lasers for example. These lensed fibers also lead to several applications in the areas of switches or laser diodes among others.

How it works

Lensed fibers work by adapting the mode field diameter to improve the mode matching between the waveguide and the fiber. This technology provides highly efficient couplings and collimating in a cost-effective way.



Applications

- Switches
- Laser diode and laser coupling
- High power connectors
- Add/Drop

Features

- -50 dB return loss
- Mode field diameter (5 – 60 μm)
- High power-carrying capacities
- Multi-connectors compatibility
- Best coupling efficiencies & performance

Specifications

CUSTOM	
Mode field diameter	From 5 μm to 60 μm
Working distance	From 0 to 1 mm
Fiber type	SMF, PM, others
Polarization Dependent Loss (PDL)	< 0.01 dB
Stripped length	> 10 mm
Pointing error	< 0.3°
Power handling	\approx 1 W
Insertion loss	No modification
Surface coating (option)	Anti-reflection, polish, cleave
Face angle	0°, 4°, 8° or others
Wavelength range	400 - 1700 nm
Termination type	FC, ST, SC, SMA, others

Related products

- Collimating or focusing lens system
- 2D fiber array
- Single Mode Graded Index Expanded Beam Fiber Optic Connector
- End Fiber Shaping



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