

SPECIAL FIBER BUNDLE

DESCRIPTION

Luxeri is able to provide a wide range of special multimode fiber with the following features:

- ranges of wavelengths included in the ultraviolet and near infra-red (190 - 1200nm) or in the visible and infra-red (300 - 2400nm) or in a broadband range (200- 2000nm or 400-2400nm) thanks to a wide range of low OH and high OH fibers or germanium doped silica fibers
- various numerical apertures : small or large thanks to silica-silica or silica-silica fiber structures or hard clad
- core diameters between 25 and 2000 μ m
- fiber coatings in materials (polyimide, ETFE, nylon, acrylate) to meet severe environment requirements (temperature, chemical aggression, mechanical resistance) or compatible with biomedical material
- fibers with circular / non-circular heart shapes (square or rectangular)



Luxeri produces special multimode fiber bundles. These bundles are mounted in different types of jackets (PVC, PE, LSZH, steel, PVC metal) in diameters corresponding to the diameter of the selected fiber and the number of fibers.

These bundles can be collected in specific connection or in type SMA, FC connectors.

These bundles of fibers are popular in spectroscopy, medical diagnostics, laser transport, surveillance applications.

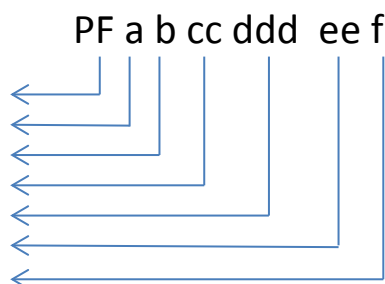
SPECIAL FIBER BUNDLE FEATURES

Luxeri is oriented towards a choice of fibers according to the application of fiber (spectroscopy, laser beam transport, medical diagnosis, medical treatment, sensor for measurements, industrial control) applied in a given field (medical, spatial, energy, transport ...). The following table gives the possible characteristics of the fiber according to the choice of the fiber.

Fiber structure	Wavelength	Core diameter	Numerical aperture	Jacket material
Silica – Silica high OH	190nm – 1200nm	From 25µm to 2000µm	0,12 / 0,22 / 0,28	Polyimide, ETFE, nylon, acrylate
Silica – silica low OH	300 – 2400nm	From 25µm à 2000µm	0,12 / 0,22 / 0,28	Polyimide, ETFE, nylon, acrylate
Silica – silica non circular low OH	190nm – 1200nm	Square, rectangular, octogonal	0,16 / 0,22 / 0,28	
Silica – silica non circular high OH	300nm – 2400nm	Square, rectangular, octogonal	0,16 / 0,22 / 0,28	
Hard clad silica	350 – 2200nm	From 100µm to 2000µm	0,37 / 0,48	ETFE, nylon

SPECIAL FIBER BUNDLE REFERENCE

Fiber bundle
 Fiber diameter
 Type of connector
 Number of fibers
 Bundle length in dm
 Type of connector
 Outer diameter



Consult us :



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