PRODUCT INTRODUCTION

Bundled Fibre Patchcord

Made with high OH fibre, it has lower loss and higher reliability below 650nm. Using inorganic adhesive and flame-retardant sheath, the product is optimized in various aspects such as fibre diameter, NA, transmission efficiency, connector packaging, end face polishing, and cleaning for bands below 650nm. The overall product has the characteristics of stable power and high reliability. Low OH optical fibre can also be used for special applications.

Features

- Multi-core integrated,2~200 cores
- Fibre optic arrangement can be customized
- Connectors are available
- Overall optimization of bands below 650nm

Applications

- Laser Projection
- UV Printing
- Laser Illumination
- Spectral Analysis
- 3D Printing
- Intracavitary Medicine

Parameters

Function	Reference Data	Notes
Fibre size	UV40/125, UV105/125, UV200/220, SI 400/420, etc.	Customizable
Connector type	SMA905, FC, etc.	Customizable
Number of fibre cores	3core, 7 core, 19 core, 76 core, 104 core, 208 core, etc.	Customizable
Length	0.3~10m	Customizable
Fibre optic arrangement	One line, circle, square, hexagon, etc.	Customizable
Working wavelength	355~650nm	Customizable
Power	208 core, Single Core 500mW@405nm (UV105/125 fibre) 76 core, Single Core 15W@450nm (S1400/420 fibre)	Customizable
Power consistency	≥95%@405nm(3.5m)	Customizable
Bundle end face cleanliness	<2 μm dirty quantity ≤ 5 (Taking UV105/125 fibre and 208cores as examples)	-
Fibre damage threshold	22.4J/cm²@1064nm (10.4ns, 1Hz)	-

Beam Combiner Patchcord (N*1)

Made with high OH fibre, it has lower loss and higher reliability below 650nm. The use of melt taper technology enables the coupling of multi-core optical energy to single core fibre output. The product has the characteristics of miniaturization and diversified output end selection. At the same time, the single fibre output achieves high reliability, high efficiency, and high power energy transmission characteristics.

Feature

- Multi core input and single core output (The number of cores can be customized)
- Large core diameter optical fibre models available
- Multiple connectors available
- High power tolerance
- High stability

Applications

- Laser Projection
- UV Printing
- Laser illumination
- Spectral Analysis
- 3D Printing
- Intracavitary Medicine

Parameters

Function	Reference Data	Notes
Input fibre size	105/125, 135/155, 200/220, 220/242	Fibre optic specifications can be specified
Output fibre size	300/330, 400/440, 600/660, 800/840	-
NA	0.22±0.02 (Typical value)	Customizable
Connector type	SMA905, FC, SC, etc.	Customizable
Length	0.1~25m	Customizable
Working wavelength	300~1200nm	Customizable
Power	500W	Customizable
Transmission efficiency	＞90%@1064nm	Customizable