

Волокна видимого диапазона серии VIS-NIR

Технические характеристики

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Visible-NIR Fibers

VIS-NIR



Description:

Our lab-grade and premium-grade UV-Visible optical fiber assemblies are durable, high-quality patch cords that deliver uniform results with minimal signal variance. Patch cords act as both illumination and read fibers and connect easily to Optosky spectrometers, light sources and sampling accessories.

Visible-NIR patch cords are low OH fibers that transmit most efficiently from 400-2500 nm and UV-Visible (200-1100 nm) options are also available. Can customize connectors for FC/SMA905.

Feature:

- Visible-NIR transmission -- low OH fibers transmit best from 400-2500 nm
- Jacketing options -- stainless steel BX or silicone-coated steel monocoil with a Nomex braid
- Variety -- assemblies available in different core diameters and lengths; custom options also available
- Convenient handling -- precision SMA 905 connectors with extra-long knurled ferrules for easy manipulation
- Robust -- great for lab, field and industrial use

Application:

- Laser transmission;
- Spectral detection;
- UV lithography;
- Medical sensing;
- Bioassay;
- UV Raman Spectroscopy;
- UV illuminance monitoring;
- High temperature measurement;
- Photodynamic therapy;
- Medical diagnosis and other fields.

Optical Parameters	
Wavelength Range:	400nm - 2.5 μ m
Fiber Core Size:	200 $\pm$ 3 μ m , 400 $\pm$ 5 μ m ,600 $\pm$ 5 μ m , customizable
Length:	1m,2m.....10m,customizable
Jacket:	general fiber
Buffer Materials:	Polyimide
Cladding OD:	220 $\pm$ 3 μ m , 440 $\pm$ 5 μ m ,660 $\pm$ 5 μ m , customizable
Connector:	SMA905
Long Term Bend Radius:	24cm
Coating OD	245 $\pm$ 10 μ m , 700 $\pm$ 20 μ m ,960 $\pm$ 20 μ m , customizable
Short Term Bend Radius:	12cm
Electrical Parameters	
Operating Temperature:	-65 to 300 °C

Stainless steel Visible-NIR Bifurcated Fibers VIS-NIR2-S



Description:

Bifurcated optical fiber assemblies have two fibers in the common end and break out into two legs at the other end. The fiber type (i.e., its most efficient transmission range) used in each leg can be the same or different, depending on your application needs. Visible-NIR bifurcated fibers are high OH fibers that transmit efficiently from 400-2500 nm.

Bifurcated fibers are good for routing equal amounts of light from a single source to two different locations, or from a single sample to two spectrometers configured for different wavelength ranges.

Feature:

- Versatile fiber assembly -- Y-shaped assembly comprising two fibers of the same diameter side-by-side in the common end
- Transmission efficiency -- options for UV-Visible and Visible-NIR.
- Jacketing options -- silicone-coated steel monocoil with a Nomex braid.
- Convenient handling -- precision SMA 905 connectors with knurled ferrules for easy manipulation
- Robust -- great for field and industrial use, or other rough handling environment

Application:

- Laser transmission;
- Spectral detection;
- UV lithography;
- Medical sensing;
- Bioassay;
- UV Raman Spectroscopy;
- UV illuminance monitoring;
- High temperature measurement;
- Photodynamic therapy;
- Medical diagnosis and other fields.

Optical Parameters	
Wavelength Range:	400nm - 2.5μm
Fiber Core Size:	200±3μm , 400±5μm ,600±5μm , customizable
Length:	1m,2m.....10m,customizable
Jacket:	Stainless steel BX
Buffer Materials:	Polyimide
Cladding OD:	220±3μm , 440±5μm ,660±5μm , customizable
Connector:	SMA905
Long Term Bend Radius:	16cm
Coating OD	245±10μm , 700±20μm ,960±20μm , customizable
Short Term Bend Radius:	8cm
Electrical Parameters	
Operating Temperature:	-65 to 300 °C

Visible-NIR Bifurcated Fibers

VIS-NIR2



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Jacket:	General fiber
Buffer Materials:	Polyimide
Cladding OD:	220±3μm , 440±5μm ,660±5μm , customizable
Connector:	SMA905
Long Term Bend Radius:	24cm
Coating OD	245±10μm , 700±20μm ,960±20μm , customizable
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Electrical Parameters	
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Stainless Steel Visible-NIR Fibers

VIS-NIR-S

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Visible-NIR patch cords are low OH fibers that transmit most efficiently from 400-2500 nm and UV-Visible (200-1100 nm) options are also available. Can customize connectors for FC/SMA905.

Feature:

- UV-Visible transmission -- high OH fibers transmit well from 400-2500 nm
- Jacketing options -- stainless steel can be more protective under strong laser and will not burn through fibers
- Variety -- assemblies available in different core diameters and lengths; custom options also available
- Convenient handling -- precision SMA 905 connectors with extra-long knurled ferrules for easy manipulation
- Robust -- great for lab, field and industrial use

Application:

- Laser transmission;
- Spectral detection;
- UV lithography;
- Medical sensing;
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Buffer Materials:	Polyimide
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Long Term Bend Radius:	24cm
Coating OD	245±10μm , 700±20μm , 960±20μm , customizable
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