

For current pricing, please see our website.

CHAPTERS

Fiber Patch Cables

Bare Fiber

Fiber Optomechanics

Fiber Components

Test and Measurement

SECTIONS

SM Fiber

PM Fiber

Doped Fiber

PCF

MM Fiber

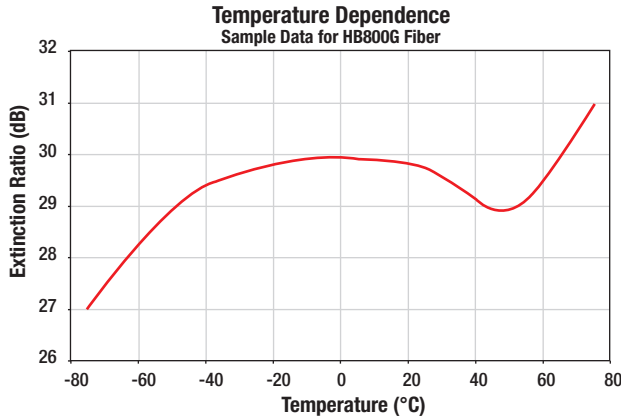
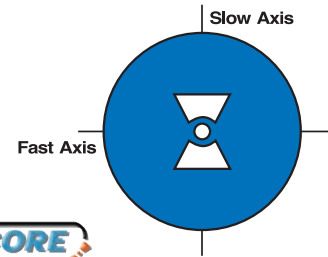
Plastic Optical Fiber

Bend-Insensitive PM Fiber, Bow Tie: 800 - 1000 nm

Bend-Insensitive Low-Temperature Fiber

Fibercore has designed polarization-maintaining fibers for fiber optic gyroscope (FOG) applications. This fiber has been designed for optimal performance over a wide temperature range and small coil radius. As opposed to conventional PM fibers that use a polymer coating that stiffens and degrades performance at lower temperatures, this PM fiber integrates a dual-layer acrylic coating that increases the low-temperature performance. Extinction ratios of 29.5 dB at -40 °C and -28.5 dB at -60 °C are typical for this fiber.

Bow-Tie PM Fiber Cross Section



High-Performance, Low-Temperature, IR PM Fiber

ITEM #	PRICE/m	\$	£	€	RMB
HB800G	1 to 9 m	\$ 18.80	£ 13.54	€ 16,36	¥ 149.84
	10 to 49 m	\$ 15.98	£ 11.51	€ 13,91	¥ 127.37
	50 to 249 m	\$ 13.16	£ 9.48	€ 11,45	¥ 104.89

Polarization-Maintaining Fiber, High-Performance, Low-Temperature

ITEM #	OPERATING WAVELENGTH ^a	MODE FIELD DIAMETER ^b	CUTOFF WAVELENGTH	BEAT LENGTH ^c	ATTENUATION	NA	CLADDING DIAMETER	COATING DIAMETER	STRIPPING TOOL See Page 1154
HB800G	800 - 1000 nm	4.2 μm @ 830 nm	660 - 800 nm	<1.5 mm @ 633 nm	<5 dB/km @ 830 nm	0.14 - 0.18	80 μm ± 1 μm	170 μm ± 5%	T04S10

^a Typical operating wavelengths - The single mode operating window is ~200 nm above the cutoff wavelength if dual mode effects are minimized near the cutoff wavelength and bend losses are minimized at long wavelengths.

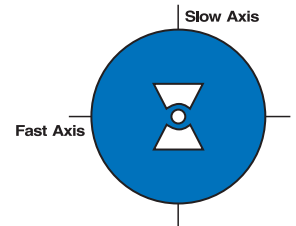
^b Mean value calculated from the relative specifications
^c Measured at 633 nm

PM Fiber, Bow Tie: 980 - 1750 nm

Polarization-maintaining fibers with bow-tie stress rods are commonly used in sensor applications. When mating a PM fiber to an existing fiber, it is desirable to match the stress rod structure of both fibers, thus choosing a bow-tie stress rod fiber is typically preferable.

The HB980T has been specifically designed for the polarization multiplexing of EDFA pump lasers. Alternatively, the HB1250T and HB1500T are well suited for laser pigtailing due to their large mode field diameters.

These fibers are designed for NIR applications. Each fiber here is compatible with our 301255D1 adjustable key FC/PC connector on page 1142.



Bow-Tie Fiber Cross Section

ITEM #	OPERATING WAVELENGTH	MODE FIELD DIAMETER	CUTOFF WAVELENGTH	BEAT LENGTH	ATTENUATION	CLADDING DIAMETER	COATING DIAMETER	STRIPPING TOOL See Page 1054
HB980T	980 - 1200 nm	6.0 μm @ 980 nm	870 - 970 nm	<2 mm @ 633 nm	<3 dB/km @ 980 nm	125 μm ± 1 μm	245 μm ± 5%	T06S13
HB1250T	1300 - 1650 nm	9.0 μm @ 1310 nm	1100 - 1290 nm	<2 mm @ 633 nm	<2 dB/km @ 1310 nm	125 μm ± 1 μm	400 μm ± 5%	T06S16
HB1500T	1550 - 1750 nm	10.5 μm @ 1550 nm	1290 - 1540 nm	<2 mm @ 633 nm	<2 dB/km @ 1550 nm	125 μm ± 1 μm	400 μm ± 5%	T06S16

Price Per Meter

Polarization-Maintaining Fiber, Bow-Tie by FIBERCORE

ITEM #*	\$ 1-9 m	\$ 10-49 m	\$ 50-249 m	£ 1-9 m	£ 10-49 m	£ 50-249 m	€ 1-9 m	€ 10-49 m	€ 50-249 m	RMB 1-9 m	RMB 10-49 m	RMB 50-249 m
HB980T	\$ 18.80	\$ 15.98	\$ 13.16	£ 13.54	£ 11.51	£ 9.48	€ 16,36	€ 13,91	€ 11,45	¥ 149.84	¥ 127.37	¥ 104.89
HB1250T	\$ 18.80	\$ 15.98	\$ 13.16	£ 13.54	£ 11.51	£ 9.48	€ 16,36	€ 13,91	€ 11,45	¥ 149.84	¥ 127.37	¥ 104.89
HB1500T	\$ 18.80	\$ 15.98	\$ 13.16	£ 13.54	£ 11.51	£ 9.48	€ 16,36	€ 13,91	€ 11,45	¥ 149.84	¥ 127.37	¥ 104.89

*Call for Quantities Over 250 m