Item # PM-S460-HP was discontinued on May 20, 2009. At the time of obsolescence, this product was available from Coherent.

Fiber Optics

Passive Components

Collimation Packages

FiberBench

Optical Switches

Rackbox Systems

Connectors/ Termination Tools

Single Mode Fiber

Rare Earth Doped

Polarization Maintaining Fiber

Photonic Crystal Fiber **Multimode Fiber:** Step & Graded Index

Plastic Optical Fiber

Polarization Maintaining Fiber, 460 nm to 980 nm

Thorlabs offers "bow-tie" and "panda" style polarization maintaining fibers for laser pigtails, sensors, spectroscopy, biomedical, and many other research applications. They have very high birefringence to ensure that the linear polarization state is maintained over the entire length of the fiber, even with enviro nmentally induced stresses on the fiber. These fibers minimize bend-induced losses that typically occur when the fiber is bent or coiled tightly.





Panda PM Fiber

Bow-Tie PM Fiber

Polarization Maintaining Fiber, Panda

l	ITEM#	OPERATING WAVELENGTH ¹	MODE FIELD DIAMETER ²	CUT-OFF WAVELENGTH	BEAT LENGTH ³	ATTENUATION	CLADDING ±1 µM	COATING ±15 μM	STRIPPING TOOL
ı	PM630-HP	630-780 nm	4.5 ± 0.5 μm	570 ± 50 nm	1.8 mm @ 630 nm	<12dB/km @ 630 nm	125 μm	245 μm	T06S13
ı	PM780-HP	780-980 nm	5.3 ± 1.0 μm	710 ± 60 nm	2.4 mm @ 850 nm	<4dB/km @ 780 nm	125 μm	245 μm	T06S13

Polarization Maintaining Fiber, Bow-Tie

ITEM#	OPERATING WAVELENGTH ¹	MODE FIELD DIAMETER ²	CUT-OFF WAVELENGTH	BEAT LENGTH ³	ATTENUATION	CLADDING ±1 μm	COATING ±12 μm	STRIPPING TOOL
HB450	488/514 nm	3.6 µm	350-470 nm	<2.0 mm	<100dB/km	125 μm	245 μm	T06S13
HB600	633/688 nm	3.2 μm	500-600 nm	<2.0 mm	<15dB/km	125 μm	245 μm	T06S13
HB750	780 nm	4.0 μm	610-750 nm	<2.0 mm	<8dB/km	125 μm	245 μm	T06S13

¹⁾ 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.

- 2) Mean value calculated from the relative specifications
- 3) Measured at 633 nm

Polarization Maintaining Fiber, Panda by

ITEM#	PRICE/m	\$	£	€	RMB
	1 to 9 m	\$ 19.40	£ 12.20	€ 18,00	¥ 185.25
PM630-HP	10 to 49 m	\$ 16.35	£ 10.30	€ 15,20	¥ 156.15
	50 to 249 m	\$ 14.30	£ 9.00	€ 13,30	¥ 136.55
	250 to 999 m	CALL	CALL	CALL	CALL
	1 to 9m	\$ 19.40	£ 12.20	€ 18,00	¥ 185.25
PM780-HP	10 to 49 m	\$ 16.35	£ 10.30	€ 15,20	¥ 156.15
	50 to 249 m	\$ 14.30	£ 9.00	€ 13,30	¥ 136.55
	250 to 999 m	CALL	CALL	CALL	CALL

Polarization Maintaining Fiber, Bow-Tie by FIBERCORE

ITEM#	PRICE/m	\$	£	€	RMB
	1 to 9 m	\$ 18.40	£ 11.60	€ 17,10	¥ 175.70
HB450	10 to 49 m	\$ 16.05	£ 10.10	€ 14,95	¥ 153.30
	50 to 249 m	\$ 13.10	£ 8.25	€ 12,20	¥ 125.10
	250 to 999 m	CALL	CALL	CALL	CALL
	1 to 9 m	\$ 18.40	£ 11.60	€ 17,10	¥ 175.70
HB600	10 to 49 m	\$ 16.05	£ 10.10	€ 14,95	¥ 153.30
	50 to 249 m	\$ 13.10	£ 8.25	€ 12,20	¥ 125.10
	250 to 999 m	CALL	CALL	CALL	CALL
	1 to 9 m	\$ 18.40	£ 11.60	€ 17,10	¥ 175.70
HB750	10 to 49 m	\$ 16.05	£ 10.10	€ 14,95	¥ 153.30
	50 to 249 m	\$ 13.10	£ 8.25	€ 12,20	¥ 125.10
	250 to 999 m	CALL	CALL	CALL	CALL

Pure Silica Core Polarization Maintaining Fiber, 350 nm to 780 nm

These PM fibers have all the benefits of the PM fibers above but with a pure silica core, which provides protection from radiationinduced damage and color center formation.

	ITEM#	OPERATING WAVELENGTH ¹	MODE FIELD DIAMETER ²	CUT-OFF WAVELENGTH	BEAT LENGTH ¹	ATTENUATION	CLADDING ±1 μm	COATING ±15 µm	STRIPPING TOOL
П	PM-S350-HP	350-460 nm	2.3 μm @ 350 nm	<340 nm	1.5 mm @ 350 nm	n/a	125	245	T06S13
П	PM-S405-HP	400-500 nm	2.5 μm @ 405 nm	365 ± 25 nm	2.0 mm @ 405 nm	<30dB/km @ 460 nm	125	245	T06S13
П			2.8 ± 0.3 μm @ 460 nm						
	PM-S460-HP	460-550 nm	3.5 ± 0.3 μm @ 460 nm	420 ± 30 nm	2.3 mm @ 460 nm	<30dB/km @ 460 nm	125	245	T06S13
	PM-S630-HP	630-780 nm	4.2 ± 0.5 μm @ 630 nm	580 ± 40 nm	4.7 mm @ 630 nm	<12dB/km @ 630 nm	125	245	T06S13

¹⁾ Nominal 2) 1/e² fit - near field

ITEM#	PRICE/m	\$	£	€	RMB
	1 to 9 m	\$ 33.00	£ 20.80	€ 30,70	¥ 315.20
PM-S350-HP	10 to 49 m	\$ 26.00	£ 16.40	€ 24,20	¥ 248.30
	50 to 249 m	\$ 22.35	£ 14.10	€ 20,80	¥ 213.40
	250 to 999 m	CALL	CALL	CALL	CALL
	1 to 9 m	\$ 30.00	£ 18.90	€ 27,90	¥ 286.50
PM-S405-HP	10 to 49 m	\$ 23.70	£ 14.95	€ 22,00	¥ 226.30
	50 to 249 m	\$ 20.35	£ 12.80	€ 18,95	¥ 194.30
	250 to 999 m	CALL	CALL	CALL	CALL

ITEM#	PRICE/m	\$	£	€	RMB
	1 to 9 m	\$ 30.00	£ 18.90	€ 27,90	¥ 286.50
PM-S460-HP	10 to 49 m	\$ 23.70	£ 14.95	€ 22,00	¥ 226.30
	50 to 249 m	\$ 20.35	£ 12.80	€ 18,95	¥ 194.30
	250 to 999 m	CALL	CALL	CALL	CALL
	1 to 9 m	\$ 27.00	£ 17.00	€ 25,10	¥ 257.90
PM-S630-HP	10 to 49 m	\$ 21.25	£ 13.40	€ 19,75	¥ 202.90
	50 to 249 m	\$ 18.20	£ 11.50	€ 16,95	¥ 173.80
	250 to 999 m	CALL	CALL	CALL	CALL