



Fiber Optics

Passive Components

Collimation Packages

Optical Switches

Rackbox Systems

Connectors/
Termination Tools

Single-Mode Fiber

Rare Earth Doped

Single-Mode: PM

Photonic
Crystal Fiber

Multimode Fiber:
Graded Index

Multimode Fiber:
Step Index

Waveguide Circuits

Fiber Patch Cables: Single Mode FC/PC



Features

- Connectorized on Both Ends
- Typical Return Loss 50dB (40dB min)
- Ceramic Radiused Ferrules (PC)
- 2, 5 & 10 Meter Lengths
- Ø3mm Protective Outer Jacket

Custom Patch Cables

Thorlabs is pleased to offer Next-Day Shipping service for small lots of custom patch cables assembled using our standard fibers. We stock many of our more popular fibers with protective jacketing in bulk, allowing us to assemble custom length patch cables within one day. Additionally, Thorlabs stocks the largest selection of single mode and multimode optical fibers in the photonics industry.

For Details Contact Technical Support at: techsupport@thorlabs.com

These Fiber Patch Cables are connectorized on both ends with high quality ceramic FC connectors. Manufactured in our facility, each cable is individually tested to ensure low back-reflection (return loss) at fiber-to-fiber junctions. Available from stock, these cables feature a high quality polish, which yield typical return losses of over 50dB.

NEW Pure Silica Core Fiber

405 nm FC Single Mode Patch Cables¹

ITEM#	\$	£	€	¥	CUTOFF WAVELENGTH	L	FIBER (see page 864)	MFD ² /CLAD	NA ³
P1-405A-FC-2	\$ 69.40	£ 52.05	€ 72.87	¥ 11,798	300 - 400nm ¹	2m	S405	3.2/125µm	0.12
P1-405A-FC-5	\$ 88.90	£ 66.68	€ 93.34	¥ 15,113	300 - 400nm ¹	5m	S405	3.2/125µm	0.12

1) Operating wavelength: 400-525nm.

3) Nominal NA

2) MFD: Mode field diameter @ 460nm

488/514 nm FC Single Mode Patch Cables¹

ITEM#	\$	£	€	¥	CUTOFF WAVELENGTH	L	FIBER (see page 864)	MFD ² /CLAD	NA ³
P1-460A-FC-2	\$ 69.40	£ 52.05	€ 72.87	¥ 11,798	410 - 450nm ¹	2m	460HP	3.3/125µm	0.13
P1-460A-FC-5	\$ 88.90	£ 66.68	€ 93.34	¥ 15,113	410 - 450nm ¹	5m	460HP	3.3/125µm	0.13

1) Operating wavelength: 450-600nm.

3) Nominal NA

2) MFD: Mode field diameter @ 515nm

630 nm FC Single Mode Patch Cables¹

ITEM#	\$	£	€	¥	CUTOFF WAVELENGTH	L	FIBER (see page 864)	MFD ² /CLAD	NA ³
P1-630A-FC-2	\$ 63.10	£ 47.32	€ 66.26	¥ 10,727	500 - 600nm ¹	2m	SM600	4.3/125µm	0.12
P1-630A-FC-5	\$ 75.80	£ 56.85	€ 79.59	¥ 12,886	500 - 600nm ¹	5m	SM600	4.3/125µm	0.12
P1-630A-FC-10	\$ 102.30	£ 76.72	€ 107.42	¥ 17,391	500 - 600nm ¹	10m	SM600	4.3/125µm	0.12

1) Typically these fibers can be operated 200nm above their cutoff wavelengths

3) Mean NA: 0.10 ≤ NA ≤ 0.14

2) MFD: Mode field diameter (4.3µm @ 633nm and 4.6µm @ 680nm)

830 nm FC Single Mode Patch Cables¹

ITEM#	\$	£	€	¥	CUTOFF WAVELENGTH	L	FIBER (see page 864)	MFD ² /CLAD	NA ³
P1-830A-FC-2	\$ 60.40	£ 45.30	€ 63.42	¥ 10,268	660 - 800nm ¹	2m	SM800-5.6-125	5.6/125µm	0.12
P1-830A-FC-5	\$ 70.10	£ 52.58	€ 73.60	¥ 11,917	660 - 800nm ¹	5m	SM800-5.6-125	5.6/125µm	0.12
P1-830A-FC-10	\$ 92.10	£ 69.08	€ 96.70	¥ 15,657	660 - 800nm ¹	10m	SM800-5.6-125	5.6/125µm	0.12

1) Typically these fibers can be operated 200nm above their cutoff wavelengths

3) Mean NA: 0.10 ≤ NA ≤ 0.14

2) MFD: Mode field diameter (@ 830nm)

980/1064/1550 nm FC Single Mode Patch Cables¹

ITEM#	\$	£	€	¥	CUTOFF WAVELENGTH	L	FIBER (see page 865)	MFD ² /CLAD	NA ³
P1-980A-FC-2	\$ 61.30	£ 45.98	€ 64.37	¥ 10,421	870 - 970nm ¹	2m	SM980-5.8-125	5.8/125µm	0.14
P1-980A-FC-5	\$ 72.10	£ 54.08	€ 75.70	¥ 12,257	870 - 970nm ¹	5m	SM980-5.8-125	5.8/125µm	0.14

1) The design wavelengths are 980nm, 1064nm & 1550nm. This fiber can typically be operated 200nm above their cutoff wavelengths

2) MFD: Mode field diameter (5.8µm @ 980nm, 6.2µm @ 1064nm and 10.4µm @ 1550nm)

3) Mean NA: 0.13 ≤ NA ≤ 0.15

1550 nm FC Single Mode Patch Cables¹

NEW Bend Insensitive fiber

ITEM#	\$	£	€	¥	CUTOFF WAVELENGTH	L	FIBER (see page 865)	MFD ² /CLAD	NA
P1-1550A-FC-2	\$ 69.40	£ 52.05	€ 72.87	¥ 11,798	1350 - 1450nm ¹	2m	1550BHP	9.5/125µm	0.13
P1-1550A-FC-5	\$ 88.90	£ 66.68	€ 93.34	¥ 15,113	1350 - 1450nm ¹	5m	1550BHP	9.5/125µm	0.13
P1-1550A-FC-10	\$ 125.70	£ 94.28	€ 131.99	¥ 21,369	1350 - 1450nm ¹	10m	1550BHP	9.5/125µm	0.13

1) Typically these fibers can be operated 50nm below and 200nm above their design wavelengths

2) MFD: Mode field diameter