

## 405nm Single mode Patch-cord

### Key Features

- High Return Loss
- Low Insertion Loss
- Excellent stability and reliability

### Applications

- Fiber Laser
- Fiber Instruments
- Fiber I/O Port
- Optical Transmitters & Transceivers

Single Mode optical patch cords are widely used for linking the equipment and components in the fiber optic network. They are with various kinds of fiber optic connector types, including FC, LC, SC, etc. The fiber optic patch cord types are classified by the fiber optic connector types. For example, we name FC fiber optic patch cord because this cable is with FC fiber optic connector. There are PC, APC type fiber patch cord; they are different because of the polish of fiber connectors.

If you do not see a standard Single Mode optical patch cords that meets your needs, we welcome the opportunity to review your desired specification and quote a custom Single Mode optical patch cords. DK Photonics can respond to custom requirements with short lead times.



## For more Info

### Please contact us at:

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Fax: +86-755-26746512

E-mail: [sales@dkphotonics.com](mailto:sales@dkphotonics.com)

<https://www.dkphotonics.com>

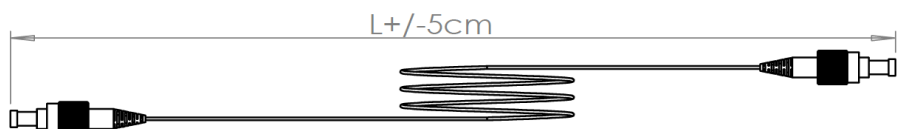
Add.:

4F, Bldg. 18, Qinghu Industrial Park,

Dahe Road, Longhua Dis.,

Shenzhen, China 518109

### Drawing Example (FC patch cord):



\*The default length accuracy is +/-5CM, please let us know if you have special requirements.

\*Due to ongoing design improvements, the package size is subject to change. Please contact DK Photonics for confirmation if you have special requirements.

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### Performance Specifications

Parameters	Unit	Values
Connector type	-	FC
Test wavelength	nm	405
Operating Wavelength	nm	400 - 680
Cutoff Wavelength	nm	370 ± 20
Insertion loss	dB	≤2.5
Return loss	PC	≥40
	APC	≥55
Fiber Type	-	S405-XP
Mode Field Diameter	µm	3.3 ± 0.5 µm @ 405 nm, 4.6 ± 0.5 µm @ 630 nm
Numerical Aperture	-	0.12
Repeatability	dB	≤0.2
Changeability	dB	≤0.3
Optical Power	mW	≤100
Durability	times	≥1000
Operation Temperature	°C	-5 to 75
Storage temperature	°C	-40°C ~ + 85 °C

1. Above specification may change without notice.
2. FC Connector key width: Narrow key (2.0 mm).
3. Mode Field Diameter (MFD) is specified as a nominal value. It is the diameter at the 1/e<sup>2</sup> power level in the near field.
4. The default length accuracy is +/-5CM, please let us know if you have special requirements.

### Order information

P/N: SMPC-①-②-③-④-⑤-⑥(SMPig-①-②-③-④-⑤-⑥: for SM fiber pigtail with only 1 connector)

When you inquire, please provide the correct P/N number according to our ordering information and attach the appropriate description would be better.

①	②	③	④	⑤	⑥
Test Wavelength	Grade	Fiber Type	Pigtails Diameter	Fiber Length	Connectors
375:375nm:	P:P Grade	XXX (fiber code)	90:900µm	05:0.5m	FP: FC/PC
405:405nm			30:3.0mm	10:1.0m	FA: FC/APC
488:488nm			XX: Others	15:1.5m	XX: Others
XX: Others				XX: Others	

**Part Number Example:** SMPC-405-P-S40-90-20-FA

**Description:** 405nm single mode patch cord, P grade, S405-XP fiber, with 0.9mm OD loose tube, 2m fiber length, and FC/APC connectors at all ports.

### Ordering Information for Custom Parts

If you need to customize other specifications, please provide detailed description for your requirement.