

Photonics

**SM405 Singlemode Patchcords**



Fibrain offers single mode patchcords with a wide range of connectors. The cables are individually tested and delivered with full test reports. Fully automated preparation and polishing process as well as detailed selection of the manufacturing components ensure the highest quality and reliability of the connectors used. Thanks to high quality of components, we are able to achieve low insertion losses despite small mode field diameter. The patchcords are available in 0.9 mm loose tube or 1.8 mm and 2.8 mm PVC protective jackets with internal Kevlar threads. The patchcord length can be chosen according to the customer's needs.

**APPLICATIONS**

**ADVANTAGES & FEATURES**

- ✓ Couplers
- ✓ Measurement devices
- ✓ Light sources

- ✓ SM patch cables for signal transmission from 405 nm to 550 nm
- ✓ A wide range of available connectors, protective jackets, and fiber lengths
- ✓ Each patchcord is individually tested

**TECHNICAL SPECIFICATIONS:**

Parameter	Value	
	Standard version	Low-loss version
Operating Wavelength	400-550 nm	
Core NA	0.130	
Mode Field Diameter (Gaussian)	3.5 ± 0.5 μm @ 515 nm	
Cutoff	370 ± 20 nm	
Core Attenuation	≤ 30.0 dB/km @ 515 nm	
Core Diameter	2.1 μm	
Core/Clad Offset	≤ 0.50 μm	
Cladding Diameter	125 ± 1.0 μm	
Insertion Loss (Typical Connector to Connector)	2.5 dB @ 405 nm	1.5 dB @ 405 nm
Return Loss	40 dB	

**PACKAGING:**

The patchcords are individually packed in string bags.



Type:	SM405 Patchcord	REV: 1.1
Date:	1/03/2019	OJ
Modified:	SP-, see system reference below	

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### ORDERING INFORMATION:

Series	Type	Version	Connector A	Connector B	Length [m]	Cable diameter	Cable color
SP	SM405	S – standard	SC	SC	1.0	09 - 0.9 mm	OR
			L – Low-loss	SCA	SCA	2.0	18 - 1.8 mm
			LC	LC	5.0	28 - 2.8 mm	GR
			LCA	LCA	10.0		GY
			FC	FC	XX		BL
			FCA	FCA			BK
			E2	E2			V
			E2A	E2A			R
			ST	ST			W
			MU	MU			
			DIN	DIN			
						XX	

Example reference: SP-SM405-S-SCA-SCA-002.0-18-R –SM405 patchcord, standard version, SCA connectors, 2 m length, red 1.8 mm cable tube

**Important notice**

Buyer and/or user of this product has to make sure before using this product that it is suitable for the intended use. All questions of liability relating to this product are subject – in accordance with the prevailing – to the Term of Sale of the selling Fibrain subsidiary.