

Field-Installable Pre-Polished Optical Fiber Connectors

Signamax field-installable pre-polished connectors allow reducing installation time significantly owing to the absence of need to use adhesives and polishing. This unique feature makes possible to eliminate field termination errors and to provide equal quality of connection performed by an experienced installer and apprentice.

Available in multimode (62.5- μ m (OM1), 50- μ m (OM2), 50- μ m laser-optimized (LO) (OM3/OM4), and singlemode (UPC and APC) ST, SC, and LC versions, field-installable connectors feature a polished ferrule with a factory-installed fiber stub, which splices in the field to distribution cable fibers using an integrated alignment mechanism and index-matching gel. The alignment mechanism is activated with the help of a termination clip, which is supplied with each connector; after successful termination, the clip is removed. Field-installable connectors are designed to terminate 250- and 900- μ m buffered fibers, and 2- and 3-mm jacketed fibers.

KEY FEATURES

- Available in the following versions:
 - OM1 (62.5- μ m multimode)
 - OM2 (50- μ m multimode)
 - OM3 (50- μ m laser-optimized (LO) multimode)
 - OM4 (50- μ m laser-optimized (LO) multimode)
 - singlemode (UPC and APC)
- Plastic body color-coding per ANSI/TIA-598-C.3
- Slim-profile boots with durable flexible cable strain relief
- Field installation procedures minimized and simplified – pre-polished ferrule with a factory-installed fiber stub, integrated alignment mechanism and index-matching gel
- ST, SC, and LC simplex connectors
- Termination clip and detailed installation instructions are supplied with each connector;
- Designed to terminate 250- and 900- μ m buffered fibers, 2- and 3-mm jacketed fibers.

ORDERING INFORMATION

ST Pre-Polished Optical Fiber Connectors

Part Number	Connector	Fiber Coating/Jacket	Body Color
FPC-ST06	ST, OM1 (62.5- μ m MM)	250 /900 μ m	Beige
FPC-ST05	ST, OM2 (50- μ m MM)	250 /900 μ m	Black
FPC-ST51	ST, OM3/OM4 (50- μ m MM LO)	250 /900 μ m	Aqua
FPC-ST09	ST, SM UPC	250 /900 μ m	Blue

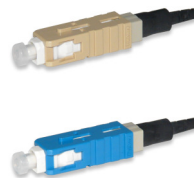
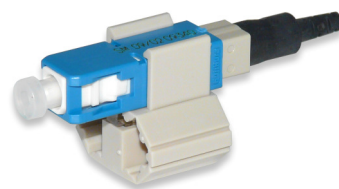
SC Pre-Polished Optical Fiber Connectors

Part Number	Connector	Fiber Coating/Jacket	Body Color
FPC-SC06	SC, SX OM1 (62.5- μ m MM)	250 /900 μ m	Beige
FPC-SC05	SC, SX OM2 (50- μ m MM)	250 /900 μ m	Black
FPC-SC51	SC, SX OM3/OM4 (50- μ m MM LO)	250 /900 μ m	Aqua
FPC-SC09	SC, SX SM UPC	250 /900 μ m	Blue
FPC-SCAU	SC, SX SM APC-FLAT	250 /900 μ m	Green
FPC-SCAA	SC, SX SM APC-ANGLE	250 /900 μ m	Green

LC Pre-Polished Optical Fiber Connectors

Part Number	Connector	Fiber Coating/Jacket	Body Color
FPC-LC06	LC, SX OM1 (62.5- μ m MM)	250 /900 μ m	Beige
FPC-LC05	LC, SX OM2 (50- μ m MM)	250 /900 μ m	Black
FPC-LC51	LC, SX OM3/OM4 (50- μ m MM LO)	250 /900 μ m	Aqua
FPC-LC09	LC, SX SM UPC	250 /900 μ m	Blue

FPC-B2MM	2-mm Boot Kit	2 mm	Black
FPC-B3MM	3-mm Boot Kit	3 mm	Black



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SPECIFICATIONS

• TRANSMISSION PERFORMANCE

ANSI/TIA/EIA-568-C.3: insertion and return loss (100% tested)

• TRANSMISSION MEDIA

Optical fiber:

- OM1 (62.5/125-μm multimode)
- OM2 (50/125-μm multimode)
- OM3 (50/125-μm laser-optimized (LO) multimode)
- OM4 (50/125-μm laser-optimized (LO) multimode)
- 8-10/125-μm singlemode

• CONNECTOR TYPES

Connector type:

- ST, SC, LC: SX MM PC
- ST, SC, LC: SX SM UPC
- SC: SX SM APC

Compliance: FOCIS (ANSI/TIA/EIA-604)

• CONSTRUCTION

Body: thermoplastic

Ferrule: ceramic– thermoplastic strain relief

Strain relief boot: thermoplastic

Re-insertion of fiber: maximum 3 times

• TRANSMISSION PERFORMANCE

Insertion loss:	MM PC:	typical	0.1 dB	
		maximum	0.5 dB	
	SM UPC:	typical	0.2 dB	
		maximum	0.5 dB	
	SM APC:	typical	0.3 dB	
		maximum	0.6 dB	
Return loss:	MM:	typical	-25 dB	@ 20 °C (68 °F)
		maximum	-20 dB	@ 20 °C (68 °F)
	SM UPC:	typical	-55 dB	@ 20 °C (68 °F)
		maximum	-45 dB	@ 20 °C (68 °F)
	SM APC AU:	typical	-55 dB	@ 20 °C (68 °F)
		maximum	-50 dB	@ 20 °C (68 °F)
	SM APC AA:	typical	-65 dB	@ 20 °C (68 °F)
		maximum	-60 dB	@ 20 °C (68 °F)

• ENVIRONMENTAL

Operation temperature: -40 °C to +75 °C (-40 °F to +167 °F)

Humidity: 95 % RH (non-condensing)

• COMPLIANCE

ANSI/TIA-568-C.3, FOCIS (ANSI/TIA/EIA-604), UL94V-0

• APPLICATIONS

FDDI PMD ANSI X3.166	10BASE-SX	100BASE-SX	1000BASE-SX	10GBASE-S	Fibre Channel 100-MX-SN-I
		100BASE-FX	1000BASE-LX	10GBASE-LX4	Fibre Channel 200-MX-SN-I
				10GBASE-LRM	Fibre Channel 400-MX-SN-1
					Fibre Channel 1200-MX-SN-1

• WARRANTY

5-year limited component warranty

10-year Signamax Link/Channel Warranty

15-year Signamax Extended Component Warranty

25-year Signamax Cabling System Warranty

