

Field-Installable Pre-Polished Optical Fiber Connectors

The Signamax Field-Installable Pre-Polished Optical Fiber Connectors is a pre-polished, preassembled connector compatible with standard SC, LC and connectors. As no adhesive is required as an internal mechanical grip effectively holds the fiber in place and with this unique feature, termination can be performed swiftly.

Without polishing or adhesives, the FPC makes on site installations quick and easy, eliminating the need for epoxy curing and hand polishing at the work site. In addition, Signamax offers an assembly jig and fiber holder for 250µm and 900µm tight buffered fiber, ensuring accurate alignment when terminating.

Available in multimode (62.5-µm (OM1), 50-µm (OM2), 50-µm laser-optimized (LO) (OM3/OM4), and singlemode (UPC and APC) 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-µm buffered fibers.



KEY FEATURES

- Available in the following versions:
 - OM1 (62.5-µm multimode)
 - OM2 (50-µm multimode)
 - OM3 (50-µm 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
- Termination clip and detailed installation instructions are supplied with each connector
- Designed to terminate 250- and 900-µm buffered fibers,
- RoHS Compliant, UL94-V0

ORDERING INFORMATION

SC Pre-Polished Optical Fiber Connectors

Part Number	Connector	Fiber Coating/Jacket	Body Color
FPCQ-SC06-02	SC OM1 (62.5-µm MM)	250 /900 μm	Beige
FPCQ-SC05-02	SC OM2 (50-µm MM)	250 /900 μm	Black
FPCQ-SC51-02	SC OM3 (50-µm MM LO)	250 /900 μm	Aqua
FPCQ-SC09-02	SC SM UPC	250 /900 μm	Blue
FPC <i>Q</i> -SCAA-02 For bulk pa	SC SM APC-Angled ackaging replace <i>Q</i> in P/N with:	250 /900 μm 06: 6-connector pack 12: 12-connector	Green or pack

LC Pre-Polished Optical Fiber Connectors

Part Number	Connector	Fiber Coating/Jacket	Body Color
FPCQ-LC06-02	LC OM1 (62.5-µm MM)	250 /900 μm	Beige
FPCQ-LC05-02	LC OM2 (50-µm MM)	250 /900 μm	Black
FPCQ-LC51-02	LC OM3 (50-µm MM LO)	250 /900 µm	Aqua
FPCQ-LC09-02	LC SM UPC	250 /900 µm	Blue
For bulk pa	ackaging replace Q in P/N with:	06: 6-connector pack 12: 12-connect	or pack

Connector Assembly Jig (Optional)

Part Number	Description
FPC-JIG-SC	SC Connector Assembly Jig
FPC-JIG-LC	LC Connector Assembly Jig



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Field-Installable Pre-Polished Optical Fiber Connectors

SPECIFICATIONS

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

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	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

٠	CONNECTOR TYPES
	Connector type:

Connector type:	SC, LC: SC, LC:	SX MM PC SX SM UPC
Compliance:	SC:	SX SM APC ISI/TIA/EIA-604)

Deaders the sum and a stick
Body: thermoplastic
Ferrule: ceramic– thermoplastic strain re
Strain relief boot: thermoplastic

TRANSMISSION PERFORMANCE

SPECIFICATIONS For SC Connectors	SINGLEMODE Typical	MULTIMODE	SPECIFICATIONS For LC Connectors	SINGLEMODE Typical	MULTIMODE
Insertion Loss	0.2dB (PC) 0.3dB (APC)	0.1dB	Insertion Loss	0.2dB (PC) 0.3dB (APC)	0.1dB
Return Loss	55dB (PC) 60dB (APC)	35dB	Return Loss	55dB (PC) 60dB (APC)	35dB
Durability	<0.1dB change	e, 500 matings	Durability	<0.1dB chang	e, 500 matings
Intermateability	IEC 6	1754-4	Intermateability	IEC 6	1754-4
Tensile	TIA/EIA	568-C.3	Tensile	TIA/EIA	568-C.3

ENVIRONMENTAL

Operation temperature:	-40 °C to +75 °C (-40 °F to +167 °F)
Humidity:	95 % RH (non-condensing)

COMPLIANCE

• WARRANTY

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

APPLICATIONS

FDDI PMD ANSI X3.166	10BASE-SX	100BASE-SX
		100BASE-FX

5-year limited component warranty

1000BASE-SX 10GBASE-S 1000BASE-LX 10GBASE-LX4 10GBASE-LRM

Fiber Channel 100-MX-SN-I Fiber Channel 200-MX-SN-I Fiber Channel 400-MX-SN-1 Fiber Channel 1200-MX-SN-1

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