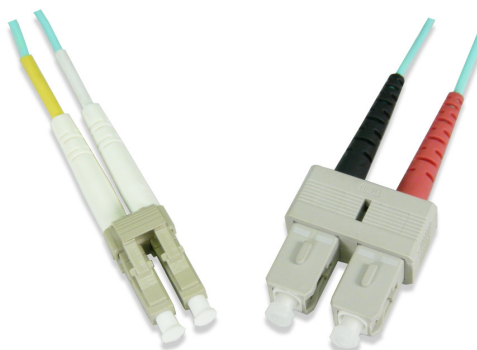


10G LO Multimode 50-µm (OM3) Optical Fiber Patch Cords

10G laser-optimized optical fiber (LOF) patch cords intended to support high-speed 10-gigabit applications can be used as cross-connect jumpers, equipment and work area cords. All Signamax LOF patch cords are manufactured using riser-grade cable (OFNR) and are 100% factory tested for insertion and return loss to ensure transmission performance per ANSI/TIA-568-C.3 standard specifications. Patch cords terminated with SC and LC connectors (uniform and hybrid versions) are available in duplex and simplex designs.

Cordage used in LOF cords is aqua in color per ANSI/TIA-598-C; connectors are grey in color per ANSI/TIA-568-C.3. Marked clips, color rings, or colored connector boots identify each end of the duplex optical fiber cord to designate Position A and Position B.



KEY FEATURES

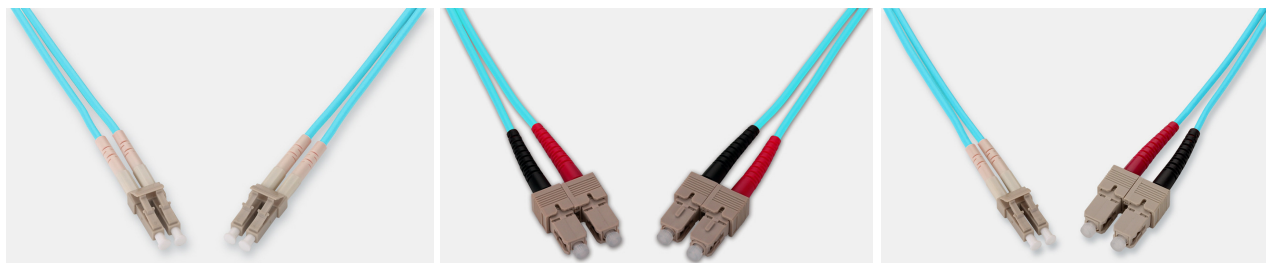
- Multimode and singlemode versions
- 100% factory transmission tested per ANSI/TIA-568-C.3
- Uniform and hybrid cord versions
- Duplex and simplex versions
- Cordage color coding per ANSI/TIA-598-C
- Plastic body color coding per ANSI/TIA-569-C.3
- Position A/Position B markings
- Slim-profile boots with durable flexible cable strain relief

ORDERING INFORMATION

10G LO Multimode 50-µm (OM3) Optical Fiber Patch Cords

Part Number	Description
FC51-4/4-LM	SC-to-SC Duplex 10G LO Multimode Fiber Patch Cord
FC51-9/9-LM	LC-to-LC Duplex 10G LO Multimode Fiber Patch Cord
FC51-9/4-LM	LC-to-SC Duplex 10G LO Multimode Fiber Patch Cord

For length substitute L in P/N: 1=1 Meter, 2=2 Meters, 3=3 Meters, 5=5 Meters, 7=7 Meters. Other lengths are available. Cable diameter for SC cords is 3.0 mm. LC connectors cable diameter is 1.8 mm.



10G LO Multimode 50-µm (OM3) Optical Fiber Patch Cord Configurator

FIBER CORD	CABLE TYPE	FIBER TYPE	JACKET TYPE	CABLE DIA.	CONNECTOR END 1	CONNECTOR END 2	LENGTH	UNIT OF MEASURE
FC	X	X	X	X	X	X	XXX	X
	D: duplex	51: OM3	R: OFNR	1: 1.8 mm	4: SC	4: SC	001-999	F: feet
	S: simplex		P: OFNP	3: 3.0 mm	9: LC	9: LC		M: meters

10G LO Multimode 50-µm (OM3) Optical Fiber Patch Cords

SPECIFICATIONS

TRANSMISSION PERFORMANCE

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

TRANSMISSION MEDIA

Optical fiber: 50/125-µm 850-nm laser-optimized multimode (OM3) optical fiber

CONNECTOR TYPES

Connector type: SC/LC PC multimode, FOCIS (ANSI/TIA/EIA-604) compliant

CONSTRUCTION

- simplex or duplex fiber cordage
- thermoplastic outer jacket (OFNR-rated)
- thermoplastic strain relief

TRANSMISSION PERFORMANCE

Bandwidth: 850 nm OFL: 1500 MHz-km
850 nm RML: 2000 MHz-km
1300 nm: 500 MHz-km

Return loss: PC ≤ -30 dB

Insertion loss: SC, LC: typical - 0.2 dB, max - 0.3 dB
MT-RJ: typical - 0.3 dB, max - 0.5 dB

MECHANICAL

Connector ferrule: ceramic
End-face radius of curvature: 10 mm (0.39 in) < R < 30 mm (1.18 in)
Apex offset: < 50 µm
Cable material: PVC OFNR
Cable jacket color: aqua

ENVIRONMENTAL

Operation temperature: -20 °C to +70 °C (-4 °F to +158 °F)
Storage temperature: -40 °C to +80 °C (-40 °F to +176 °F)
Humidity: 95 %RH (non-condensing)

COMPLIANCE

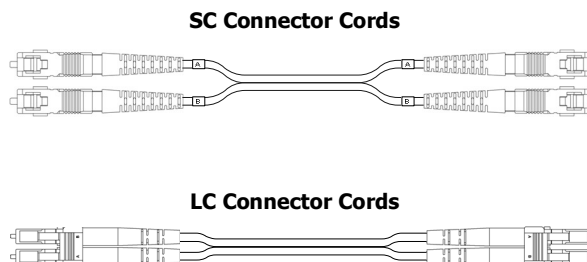
ANSI/TIA-568-C.3, ISO/IEC 11801 2nd Ed., CENELEC EN 50173, UL94V-0

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-I
					Fibre Channel 1200-MX-SN-I

WARRANTY

5-year limited component warranty
10-year Signamax Link/Channel Warranty
15-year Signamax Extended Component Warranty
25-year Signamax Cabling System Warranty



RELATED PRODUCTS

Product/Product Group	Spec Sheet #
Rack Mount Optical Fiber Enclosures	PSS.RM-OFE (B-AUG-09)
Wall Mount Fiber Optic Enclosures	PSS.WM-FOE (A-AUG-07)
Multimode 62.5-µm (OM1) Optical Fiber Patch Cords	PSS.OM2-OFPC (A-SEP-09)
Multimode 50-µm (OM2) Optical Fiber Patch Cords	PSS.OM2-OFPC (A-SEP-09)
Singlemode 9-µm (OS1) Optical Fiber Patch Cords	PSS.OS1-OFPC (A-SEP-09)
Optical Fiber Keystone Connector Modules	PSS.OF-K-CM (A-AUG-09)