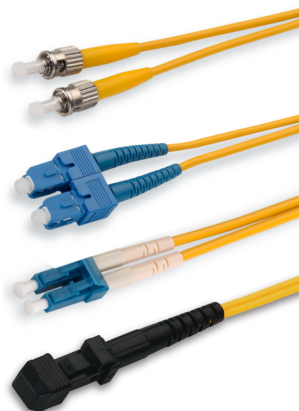


Singlemode 9-µm Optical Fiber Patch Cords

Singlemode optical fiber patch cords can be used as cross-connect jumpers, equipment and work area cords. All Signamax optical fiber patch cords are manufactured using riser-grade (OFNR) cable 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 ST, SC, LC and MT-RJ connectors (uniform and hybrid versions) are available in duplex and simplex designs.

Cordage used in singlemode optical fiber cords is color-coded per ANSI/TIA-598-C – all singlemode cables are yellow in color. Connectors with plastic bodies (SC and LC) are color-coded per ANSI/TIA-568-C.3 – singlemode PC and UPC – blue in color, singlemode APC – green. Marked clips, color rings, or colored connector boots identify each end of the duplex fiber cord to designate Position A and Position B.



KEY FEATURES

- ST, SC, FC, LC, MT-RJ connectors
- Duplex and simplex versions
- Uniform and hybrid cord versions
- 100% factory transmission tested per ANSI/TIA-568-C.3
- Cordage color coding per ANSI/TIA-598-C
- Plastic body color coding per ANSI/TIA-598-C.3
- Position A/Position B markings
- Slim-profile boots with durable flexible cable strain relief

ORDERING INFORMATION

Singlemode 9-µm Optical Fiber Patch Cords

Part Number		Description
Duplex	Simplex	
FCS-2/2-LM	FC9S-2/2-LM	ST-to-ST Singlemode Optical Fiber Patch Cord, UPC
FCS-4/4-LM	FC9S-4/4-LM	SC-to-SC Singlemode Optical Fiber Patch Cord, UPC
FCS-4/2-LM	FC9S-4/2-LM	SC-to-ST Singlemode Optical Fiber Patch Cord, UPC
FCS-9/9-LM	FC9S-9/9-LM	LC-to-LC Singlemode Optical Fiber Patch Cord, UPC
FCS-9/2-LM	FC9S-9/2-LM	LC-to-ST Singlemode Optical Fiber Patch Cord, UPC
FCS-9/4-LM	FC9S-9/4-LM	LC-to-SC Singlemode Optical Fiber Patch Cord, UPC
FCS-8/8-LM		MT-RJ-to-MT-RJ Singlemode Optical Fiber Patch Cord
FCS-8/2-LM		MT-RJ-to-ST Singlemode Optical Fiber Patch Cord
FCS-8/4-LM		MT-RJ-to-SC Singlemode Optical 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 ST and SC cords is 3.0 mm. All other connectors cable diameter is 1.8 mm.

Singlemode 9-µm 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	9: OM1	R: OFNR	1: 1.8 mm	2: ST/UPC	2: ST/UPC	001-999	F: feet
	S: simplex		P: OFNP	3: 3.0 mm	4: SC	4: SC		M: meters
					4A: SC/APC	4A: SC/APC		
					5: FC/UPC	5: FC/UPC		
					5A: FC/APC	5A: FC/APC		
					9: LC/UPC	9: LC/UPC		
					9A: LC/APC	9A: LC/APC		
					8: MT-RJ	8: MT-RJ		

Singlemode 9-μm Optical Fiber Patch Cords

SPECIFICATIONS

TRANSMISSION PERFORMANCE

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

TRANSMISSION MEDIA

Optical fiber: 9/125-μm singlemode (OS1) optical fiber

CONNECTOR TYPES

Connector type: ST/SC/LC/FC/MT-RJ UPC singlemode
ST/SC/LC/FC APC singlemode
FOCIS (ANSI/TIA/EIA-604) compliant

CONSTRUCTION

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

TRANSMISSION PERFORMANCE

Return loss: UPC: ≤ -50 dB
APC: ≤ -60 dB
Insertion loss: ST, SC, LC, FC: typical - 0.2 dB, max - 0.3 dB
MT-RJ: typical - 0.3 dB, max - 0.5 dB

MECHANICAL

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

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

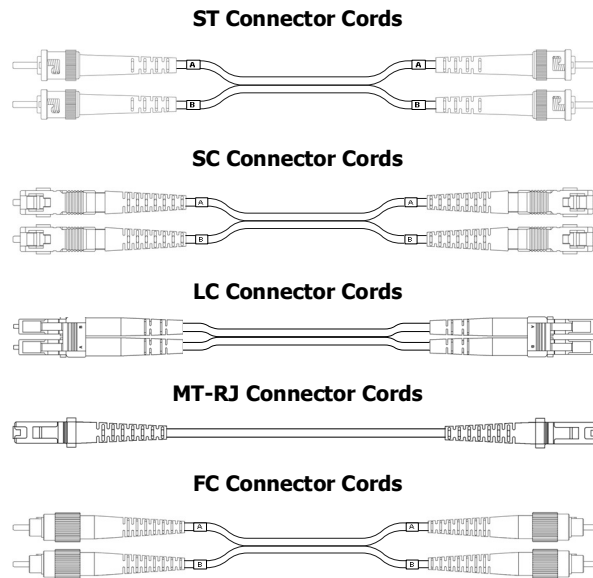
ANSI/TIA-568-C.3, ISO/IEC 11801 2nd Ed., CENELEC EN 50173, UL94V-0

APPLICATIONS

FDDI SMF-PMD ANSI X3.184	1000BASE-LX	10GBASE-LX4	Fibre Channel 100-SM-LC-L
		10GBASE-L	Fibre Channel 200-SM-LC-L
			Fibre Channel 400-SM-LC-L
			Fibre Channel 1200-SM-LL-L

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)
10G LO Multimode 50-μm (OM3) Optical Fiber Patch Cords	PSS.OM3-OFPC (A-SEP-09)
Optical Fiber Keystone Connector Modules	PSS.OF-K-CM (A-AUG-09)