

## Optical Fiber Pigtails

Optical fiber pigtails are recommended or sometimes required when there is a need to make a transition from thin buffered fibers (250–900 μm), typical for distribution cables and not suitable for direct optical fiber connector termination, to cross-connection or equipment connection points. Pigtails mechanically or fusion connected to the distribution cable fibers simplify cabling system installation and servicing significantly.

Signamax pigtails are manufactured to meet TIA, IEC and Telcordia standard requirements. Signamax pigtails based on 900-μm buffered white cable are available in multimode (62.5-μm (OM1) and 50-μm (OM2, OM3, OM4)) and singlemode, simplex and multistrand, ST, SC, FC and LC versions.



### KEY FEATURES

- ST, SC, FC, and LC connector types
- Multimode and singlemode fibers
- 62.5-μm (OM1) and 50-μm (OM2, OM3, OM4) multimode versions
- Single-fiber and multi-strand designs
- 100% factory transmission tested per TIA/EIA-568-C.3
- 900-μm buffered white cable
- Multi-strand pigtail buffer color coding per ANSI/TIA/EIA-598-B
- Suitable for fusion or mechanical splicing



### SPECIFICATIONS

#### • TRANSMISSION PERFORMANCE

ANSI/TIA/EIA-568-C.3: Insertion and return loss

#### • CONNECTOR TYPES

ST, SC, LC: FOCIS (ANSI/TIA/EIA-604-3) compliant

#### • CONSTRUCTION

- 900-μm buffered white simplex cable
- thermoplastic buffer material (OFNR-rated)
- ceramic connector ferrule

#### • INSERTION LOSS

Multimode ST, SC, LC, FC: typical – 0.2 dB  
maximum – 0.3 dB  
Singlemode ST, SC, LC, FC: typical – 0.15 dB  
maximum – 0.25 dB

#### • MAXIMUM RETURN LOSS

PC: ≤ –30 dB  
UPC: ≤ –50 dB  
APC: ≤ –60 dB

#### • COMPLIANCE

ANSI/TIA/EIA-568-C.3, ISO/IEC 11801 2<sup>nd</sup> Ed., CENELEC EN 50173, FCC Part 68, UL 1863, UL94V-0

#### • APPLICATIONS

ISO/IEC 8802-3: FOIRL; ISO/IEC 8802-3: 10BASE-FL & FB; ISO/IEC TR 11802-4; ISO/IEC 9314-3: FDDI PMD; ISO/IEC 8802-3: 100BASE-FX; IEEE 802.5t: 100 Mbit/s Token Ring; IEEE 802.12: Demand Priority; IEEE 802.3: 1000BASE-SX, LX; IEEE 802.3: 10GBASE-ER, EW, LR, LW, LX4, SR, SW, ZR; ATM @ 52, 155, 622; CD 14165-1: Fibre Channel (FC-PH) @ 266, 531, 1062; CD 9314-9: FDDI LCF-PMD; DIS 9314-4: FDDI SMF-PMD

#### • WARRANTY

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

#### • TRANSMISSION MEDIA

- 50/125 μm multimode optical fiber (OM2, OM3, OM4)
- 62.5/125 μm multimode optical fiber (OM1)
- 9/125 μm singlemode optical fiber (OS1)

#### • BANDWIDTH

Multimode 62.5/125 μm (OM1):	Multimode 50/125 μm (OM2):
– 850 nm: 200 MHz-km	– 850 nm: 500 MHz-km
– 1300 nm: 500 MHz-km	– 1300 nm: 500 MHz-km
Multimode 50/125 μm (OM3):	Multimode 50/125 μm (OM4):
– 850 nm OFL: 1500 MHz-km	– 850 nm OFL: 3500 MHz-km
– 850 nm RML: 2000 MHz-km	– 850 nm RML: 4700 MHz-km
– 1300 nm: 500 MHz-km	– 1300 nm: 500 MHz-km

#### • OPERATING TEMPERATURE

–20°C to +70°C (–4°F to +158°F)

#### • STORAGE TEMPERATURE

–40°C to +80°C (–40°F to +176°F)

## Optical Fiber Pigtails

### ORDERING INFORMATION

#### Single-Fiber Pigtails

Description	Part Number	Part Number	Part Number	Part Number
	<b>62.5-µm MM</b>	<b>50-µm MM</b>	<b>9-µm SM</b>	<b>50-µm MM 10G</b>
ST Single-Fiber Pigtail, 3 m	FP1-6-2-003M	FP1-5-2-003M	FP1-9-2-003M	
SC Single-Fiber Pigtail, 3 m	FP1-6-4-003M	FP1-5-4-003M	FP1-9-4-003M	FP1-51-4-003M
LC Single-Fiber Pigtail, 3 m	FP1-6-9-003M	FP1-5-9-003M	FP1-9-9-003M	FP1-51-9-003M

Standard length is 3 meters. Other lengths are available.

#### Multimode Single-Fiber Pigtail Configurator

FIBER PIGTAIL	FIBER TYPE	CONNECTOR	LENGTH	UNIT OF MEASURE
FP1	X	X	XXX	X
	6 = MM 62.5 µm	2 = ST	001 – 999	F = Feet
	5 = MM 50 µm	4 = SC		M = Meters
	51 = MM 50 µm 10G LO	5 = FC		
		9 = LC		

#### Singlemode Single-Fiber Pigtail Configurator

FIBER PIGTAIL	FIBER TYPE	CONNECTOR	LENGTH	UNIT OF MEASURE
FP1	9	X	XXX	X
	9 = SM 9 µm	2 = ST/UPC	001 – 999	F = Feet
		4 = SC/UPC		M = Meters
		4A = SC/APC		
		5 = FC/UPC		
		5A = FC/APC		
		9 = LC/UPC		
		9A = LC/APC		

#### Multi-Strand Optical Fiber Pigtails Kits

Description	Part Number	Part Number	Part Number	Part Number
<b>6-Fiber Pigtail Kits</b>	<b>62.5-µm MM</b>	<b>50-µm MM</b>	<b>9-µm SM</b>	<b>50-µm MM 10G</b>
ST 6-Fiber Pigtail Kit, 3 m	FP6-6-2-003M	FP6-5-2-003M	FP6-9-2-003M	
SC 6-Fiber Pigtail Kit, 3 m	FP6-6-4-003M	FP6-5-4-003M	FP6-9-4-003M	FP6-51-4-003M
LC 6-Fiber Pigtail Kit, 3 m	FP6-6-9-003M	FP6-5-9-003M	FP6-9-9-003M	FP6-51-9-003M
<b>12-Fiber Pigtail Kits</b>				
ST 12-Fiber Pigtail Kit, 3 m	FP12-6-2-003M	FP12-5-2-003M	FP12-9-2-003M	
SC 12-Fiber Pigtail Kit, 3 m	FP12-6-4-003M	FP12-5-4-003M	FP12-9-4-003M	FP12-51-4-003M
LC 12-Fiber Pigtail Kit, 3 m	FP12-6-9-003M	FP12-5-9-003M	FP12-9-9-003M	FP12-51-9-003M

Standard length is 3 meters. Other lengths are available.