

## Introduction

Fiber Optic Pigtail refers to a half-jumper-like connector used to connect fiber and fiber couplers. It includes a jumper connector and a length of fiber. FTTH cable pigtaills which are made from standard FTTH drop cables. Fiber Optic Pigtaills are made from single cables and pre-terminated at one end with fiber optic connectors. Fiber optic connectors on the end of fiber pigtaills cables can be of various types, including FC, SC, ST, LC, DIN and MPO etc., also it is available in singlemode and multimode cables. The purpose of fiber optic pigtaills is to connect fiber optic core to one or more devices or equipment in a fiber optic network. There are two major application areas of fiber optic Pigtail cables which are network station to outlet and fiber optic patch panels or optical cross connect distribution center



## Application

Fiber Optic Pigtaills are necessary for almost all networks. Their ability to carry massive volumes of data at high speeds makes them ideal for the backbone of most networks. They connect everything from data centers to any device within the network. Fiber Pigtaills have become an essential component of enterprise data networks. due to the variety of fiber pigtaills installation requirements, a fiber optic pigtail has fiber optic connectors such SC, ST, LC, FC and more at one end.

- Ideal for FTTH/FTTX network
- Optical communication networks
- LAN fiber networks
- WAN fiber networks

## Operation Features

Fiber Optic Pigtaills connectorized cable assemblies are cord-type fiber optical cables terminated with connectors at one end. The type of cable fiber and connector and the length of the pigtaills can be freely specified by the customer










- Fiber type is a Single mode fiber G652D, G657A1 and G657A2, Multimode fiber OM1, OM2, OM3 and OM4 are available
- Fiber Optic Pigtail length 1, 1.5, 2meter other length are available
- Available for simplex and multi-cores
- Low insertion loss and high return loss, high dense connection, easy for operation
- 100% factory transmission tested per ANSI/TIA-568-C.3
- IEC 874-1 Generic specification for fiber optic connectors and cables
- ANSI/TIA-568-C.3, ISO/IEC 11801 2nd Ed., CENELEC EN 50173
- Cable flame resistant rate IEC60332-3 standard
- High reliability
- Customer lengths and connectors are available upon request

## Mechanical Performance Test compliance:










- Fiber Mode: Single mode or Multi mode
- Fiber Cable: Simplex or Duplex
- Connector type: SC, FC, ST, LC, MTRJ, MPO etc.
- Cable Diameter: 2.0mm or 3.0mm
- Polish Interface Type: PC, UPC, APC
- Outer Jacket: PVC or LSZH or Armored etc.
- Jacket Color: SM "Yellow", OM2 "Orange", OM3 "Aqua", OM4 "Pink"
- Operation Temperature: -20 to +70°C
- Storage Temperature: -40 to +70°C

Fiber Optic Pigtaills	Single Mode	Multi-Mode
Insertion loss	0.3 dB (Max)	
Return loss	≤-50 dB (UPC) ≤-60 dB (APC)	≥20 dB
Operating Temperature	- 40 to +80 °C	
Cable Length	1mt, 1.5mt, 2mt, 3mt etc.	
Color	Yellow	Orange
Polishing Type	PC, UPC or APC	PC or UPC
Connectors Type	SC, FC, ST, LC, MU, MTRJ, E2000, MPO etc.	
Cable Diameter	0.9mm or 2.4mm or 3.0mm etc.	
Cable Material	PVC or LSZH jacket	
End face Radius	10mm<R<25mm (PC) 5mm<R<12mm (APC)	

## Types Of Fiber Optic Pigtaills

		
SC/UPC SM Pigtail	SC/APC SM Pigtail	SC/PC MM Pigtail
		
LC/UPC SM Pigtail	LC/APC SM Pigtail	LC/PC MM Pigtail
		
FC/UPC SM Pigtail	FC/APC SM Pigtail	FC/PC MM Pigtail
All types of connectors and cables are available with customized configuration		

## Types Of Multi-cores Fiber Optic Pigtaills

		
12 Colors SC/UPC SM Multi-pigtaills	12 Colors SC/APC SM Multi-pigtaills	12 Colors SC/PC MM Multi-pigtaills
		
12 Colors LC/UPC SM Multi-pigtaills	12 Colors LC/APC SM Multi-pigtaills	12 Colors LC/PC MM Multi-pigtaills
		
12 Colors FC/UPC SM Multi-pigtaills	12 Colors FC/APC SM Multi-pigtaills	12 Colors FC/PC MM Multi-pigtaills
All types of connectors and cables are available with customized configuration		

## Ordering Information

Product Code	Description
LN-LW-PG-xxx-SM-0.9-xx	Fiber pigtaills Singlemode 0.9 mm
LN-LW-PG-xxx-MMx-0.9-xx	Fiber pigtaills Multimode 0.9 mm
LN-LW-PG-xxx-SM-MC12-0.9-xx	Fiber Multi-cores Pigtaills 12 core Color-Coded Singlemode 0.9 mm
LN-LW-PG-xxx-MM-MC12-0.9-xx	Fiber Multi-cores Pigtaills 12 core Color-Coded Multimode 0.9 mm

**\* Note:**

**xxx:** For the connector types such as "SC, SCA, LC, LCA, FC, etc."

**xx:** For the pigtaills length per meter such as "1, 1.5, 2, etc."

**MMx:** For the Multimode pigtaills type such as "MM for OM2, MM3 for OM3, MM4 for OM4, etc."

pigtaills different diameters are available

**Notice:** The data in this document are only reference and will be changed without any notice. This specification is intended as a guide only.