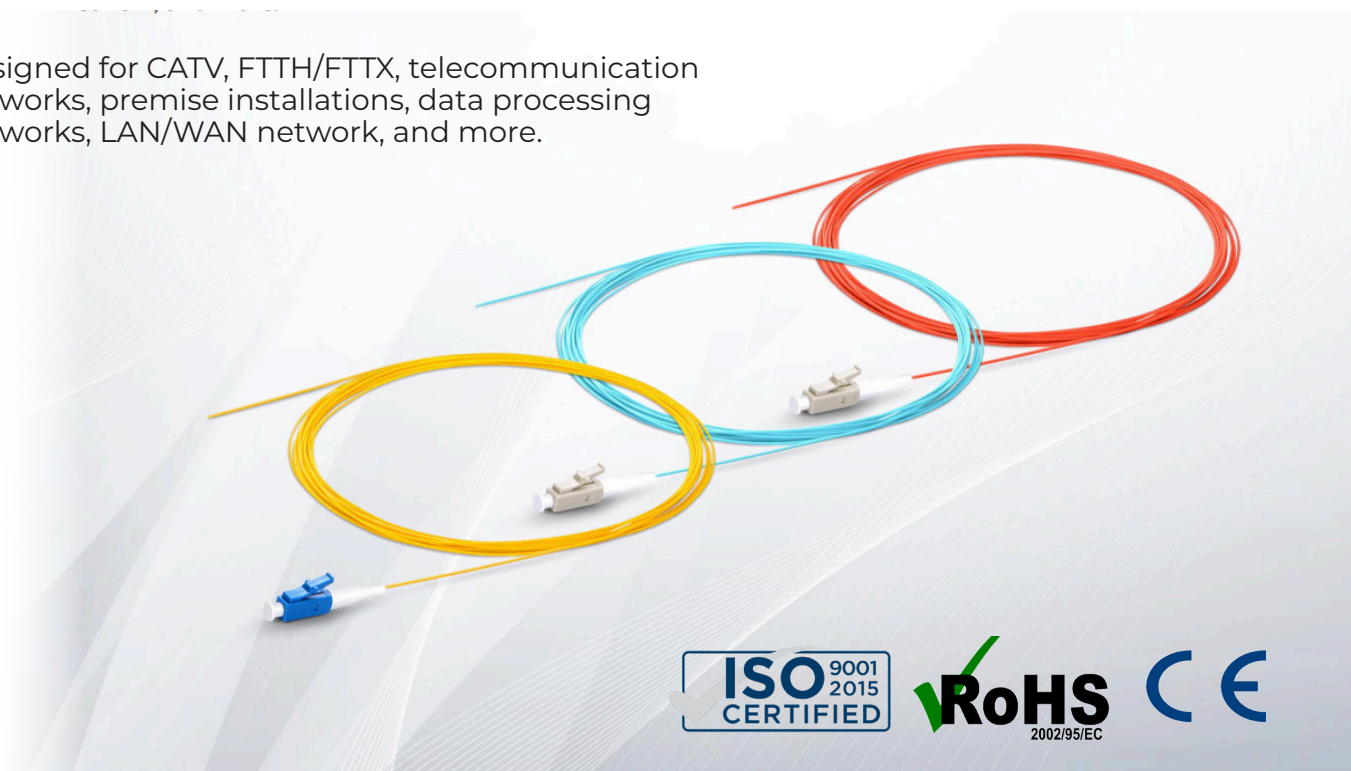


# SIMPLEX FIBER OPTIC PIGTAILS DATASHEET

IDEAL FOR FIBER OPTIC CABLES SPLICING

Designed for CATV, FTTH/FTTX, telecommunication networks, premise installations, data processing networks, LAN/WAN network, and more.



## Standard 900µm Buffered Fiber

Fiber optic pigtail is an important component commonly used in fiber optic networks. It has fiber connector at one end, and the other is utilised in terminating fiber optic cables via fusion or mechanical splicing. Feature a typical 900µm tight buffered as default, it is easy for fusion.

## Standard Fiber Patch Cables

- ISO9001 and RoHS Compliant
- ITU G.652.D, TIA/EIA 492CAAB

## Features

- Tested on optical performance insertion loss and return Loss
- 0.9mm cable for high density splicing applications.
- Tight buffer for easy fusion or mechanical splicing.
- LC, ST, SC, FC and LSH are available.
- UPC and APC polish type.
- LSZH jacket as default, OFNP and PVC are optional..
- Factory terminated and tested for insertion loss, return loss and end face.

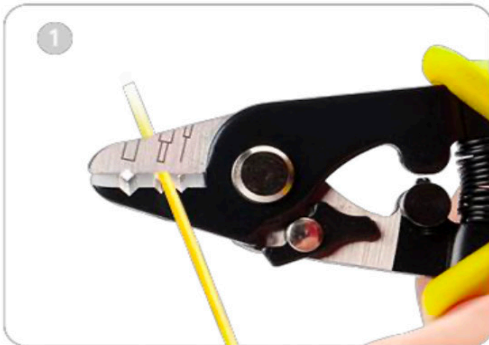
## FIBER OPTIC PIGTAILS - TECHNICAL SPECIFICATION

| Physical Characteristics | Description                                             |
|--------------------------|---------------------------------------------------------|
| Fiber Count              | Simplex                                                 |
| Fiber Mode               | Single Mode: OS2; Multimode: OM1/OM2/OM3/OM4            |
| Connector Type           | LC/SC/FC/ST/LSH                                         |
| Fiber Grade              | OS2: G.652.D; OM4/OM3/OM2: Bend Insensitive; OM1: G.651 |
| Cable Jacket             | PVC (Riser/OFNR)/LSZH/Plenum (OFNP)                     |
| Jacket Color             | OS2: Yellow; OM3/OM4: Aqua; OM1/OM2: Orange             |
| Cable Diameter (mm)      | 0.9/2.0                                                 |
| Minimum Bend Radius (mm) | Single Mode: 30/7,5/5; Multimode: 7.5/15                |

| Optical Characteristics       | Description                                                                             |
|-------------------------------|-----------------------------------------------------------------------------------------|
| Insertion Loss (dB)           | ≤0.3                                                                                    |
| Return Loss (dB) <sub>v</sub> | SMF: UPC≥50, APC≥60 (LC/SC/ST/FC) UPC≥55, APC≥75 (LSH)<br>MMF: UPC≥30 (LC/SC/ST/FC/LSH) |
| Wavelength (nm)               | PVC (Riser/OFNR)/LSZH/Plenum (OFNP)                                                     |
| Attenuation (dB/km)           | SMF: ≤0.36 at 1310nm, ≤0.22 at 1550nm<br>MMF: ≤3.0 at 850nm, ≤1.0 at 1300nm             |
| Operating Temperature         | S-40°C to 75°C                                                                          |
| Storage Temperature           | -45°C to 85°C                                                                           |

## Strip Fiber Optic Pigtail

Before using the fiber, you should strip tight buffered fiber optic pigtail with tri-hole fiber stripper. If you do not remove all of the buffer coating, the fiber will not be able to be utilised in terminating fiber optic cables. The stripping steps are as follows. • ITU G.652.D, TIA/EIA 492CAAB



- Strip the 900µm buffer coating(With the second hole)



- Down to the 250µm coating(With the smallest hole)



- Strip the 250µm coating(With the smallest hole)



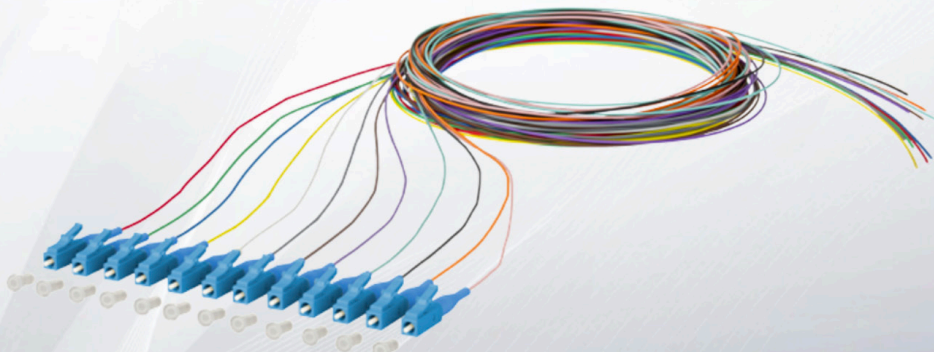
- Get the 125µm glass fiber

### Note;

- It is recommended to heat the pigtail appropriately before you strip the 0.9mm buffer.
- Only a short length (1-2cm) of the pigtail is suggested to be stripped in one action.

# 12 FIBERS PIGTAILS DATASHEET

IDEAL FOR CATV, FTTH/FTTX, TELECOMMUNICATION NETWORKS, DATA PROCESSING NETWORKS, LAN/WAN NETWORKS.



## Standard 900µm Buffered Fiber

Fiber optic pigtail is a tight buffered fiber cable with connectors pre-terminated on one end and exposed fiber on the other. The exposed end could be stripped and fusion spliced to a single or multi-fiber trunk. Bunch and color-coded types are available. And these pigtails feature a typical 900µm tight buffered as default. They are easy for fusing and protecting the tight buffers from damage.

## Standard Fiber Patch Cables

- ISO9001 and RoHS Compliant
- ITU G.652.D, TIA/EIA 492CAAB

## Features

- Tight buffer/Semi Tight Buffer for easy fusion or mechanical splicing
- 0.9mm cable for high density splicing applications.
- OS2/OM4/OM3 are for your choice
- LC/SC/ST/FC connectors are available.
- UPC and APC polish type.
- Tested for insertion loss, return loss and end face..

| Physical Characteristics | Description                                     |             |
|--------------------------|-------------------------------------------------|-------------|
| Cable Type               | Bunch                                           | Color-coded |
| Fiber Count              | 12 Fibers                                       | 12 Fibers   |
| Fiber Mode               | OS2/OM3/OM4                                     | OS2         |
| Fiber Grade              | OS2: G.657.A1;<br>OM4/OM3: Bend Insensitive     | G.657.A1    |
| Connector Type           | LC/SC/ST/FC                                     | LC/SC/ST/FC |
| Polish Type              | OS2: UPC/APC;<br>OM3/OM4: UPC                   | UPC/APC     |
| Fiber Diameter (mm)      | 0.9                                             | 0.9         |
| Cable Jacket             | LSZH                                            | /           |
| Breakout Length (m)      | 0.5 (Cable Length≥3m);<br>0.3 (Cable Length<3m) | /           |
| Minimum Bend Radius (mm) | 20/10D (Dynamic/Static)                         | 30          |

| Optical Characteristics | Description                                                                 |
|-------------------------|-----------------------------------------------------------------------------|
| Insertion Loss (dB)     | ≤0.3                                                                        |
| Return Loss (dB)        | SMF: UPC≥50, APC≥60;<br>MMF: ≥30                                            |
| Wavelength (nm)         | SMF: 1310/1550;<br>MMF: 850/1300                                            |
| Attenuation (dB/km)     | SMF: ≤0.36 at 1310nm, ≤0.22 at 1550nm<br>MMF: ≤3.0 at 850nm, ≤1.0 at 1300nm |
| Operating Temperature   | -40°C to 75°C                                                               |
| Storage Temperature     | -45°C to 85°C                                                               |

## Pigtails Product Code

| Product Code        | PRODUCT NAME                                                                        |
|---------------------|-------------------------------------------------------------------------------------|
| 7LUSABLST-09MM-1,5  | Pigtail - LC/UPC G657 Simplex LSZH - Semi Tight Buffer - 0,9mm - 1,5 meter          |
| 7LASABLST-09MM-1,5  | Pigtail - LC/APC G657 Simplex LSZH - Semi Tight Buffer - 0,9mm - 1,5 meter          |
| 7E2USABLST-09MM-1,5 | Pigtail - E2000/UPC G657 Simplex LSZH - Semi Tight Buffer - 0,9mm - 1,5 meter       |
| 7E2ASABLST-09MM-1,5 | Pigtail - E2000/APC G657 Simplex LSZH - Semi Tight Buffer - 0,9mm - 1,5 meter       |
| 7FUSABLST-09MM-1,5  | Pigtail - FC/UPC G657 Simplex LSZH - Semi Tight Buffer - 0,9mm - 1,5 meter          |
| 7FASABLST-09MM-1,5  | Pigtail - FC/APC G657 Simplex LSZH - Semi Tight Buffer - 0,9mm - 1,5 meter          |
| 7TUSABLST-09MM-1,5  | Pigtail - ST/UPC G657 Simplex LSZH - Semi Tight Buffer - 0,9mm - 1,5 meter          |
| 7SUSABLST-09MM-1,5  | Pigtail - SC/UPC G657 Simplex LSZH - Semi Tight Buffer - 0,9mm - 1,5 meter          |
| 7SU12CABLST-09MM-2  | Pigtail - SC/UPC G657 12 Color LSZH - Semi Tight Buffer - 0,9mm - 2 meter           |
| 7SA12CABLST-09MM-2  | Pigtail - SC/APC G657 12 Color LSZH - Semi Tight Buffer - 0,9mm - 2 meter           |
| 7LU12CABLST-09MM-2  | Pigtail - LC/UPC G657 12 Color LSZH - Semi Tight Buffer - 0,9mm - 2 meter           |
| 7LA12CABLST-09MM-2  | Pigtail - LC/APC G657 12 Color LSZH - Semi Tight Buffer - 0,9mm - 2 meter           |
| 7E2U12CABLST-09MM-2 | Pigtail - E2000/UPC G657 12 Color LSZH - Semi Tight Buffer - 0,9mm - 2 meter        |
| 7E2A12CABLST-09MM-2 | Pigtail - E2000/APC G657 12 Color LSZH - Semi Tight Buffer - 0,9mm - 2 meter        |
| 7FU12CABLST-09MM-2  | Pigtail - FC/UPC G657 12 Color LSZH - Semi Tight Buffer - 0,9mm - 2 meter           |
| 7FA12CABLST-09MM-2  | Pigtail - FC/APC G657 12 Color LSZH - Semi Tight Buffer - 0,9mm - 2 meter           |
| 7TU12CABLST-09MM-2  | Pigtail - ST/UPC G657 12 Color LSZH - Semi Tight Buffer - 0,9mm - 2 meter           |
| 7SUSESLST-09MM-1,5  | Pigtail - SC/UPC OM2 Simplex LSZH - Semi Tight Buffer - 0,9mm - 1,5 meter           |
| 7LUSESLST-09MM-1,5  | Pigtail - LC/UPC OM2 Simplex LSZH - Semi Tight Buffer - 0,9mm - 1,5 meter           |
| 7FUSESLST-09MM-1,5  | Pigtail - FC/UPC OM2 Simplex LSZH - Semi Tight Buffer - 0,9mm - 1,5 meter           |
| 7TUSESLST-09MM-1,5  | Pigtail - ST/UPC OM2 Simplex LSZH - Semi Tight Buffer - 0,9mm - 1,5 meter           |
| 7E2USESLST-09MM-1,5 | Pigtail - E2000/UPC OM2 Simplex LSZH - Semi Tight Buffer - 0,9mm - 1,5 meter        |
| 7SUSKLST-09MM-1,5   | Pigtail - SC/UPC 62,5um OM1 Simplex LSZH - Semi Tight Buffer - 0,9mm - 1,5 meter    |
| 7LUSKLST-09MM-1,5   | Pigtail - LC/UPC 62,5um OM1 Simplex LSZH - Semi Tight Buffer - 0,9mm - 1,5 meter    |
| 7TUSKLST-09MM-1,5   | Pigtail - ST/UPC 62,5um OM1 Simplex LSZH - Semi Tight Buffer - 0,9mm - 1,5 meter    |
| 7FUSKLST-09MM-1,5   | Pigtail - FC/UPC 62,5um OM1 Simplex LSZH - Semi Tight Buffer - 0,9mm - 1,5 meter    |
| 7E2USKLST-09MM-1,5  | Pigtail - E2000/UPC 62,5um OM1 Simplex LSZH - Semi Tight Buffer - 0,9mm - 1,5 meter |
| 7SUSBSLST-09MM-1,5  | Pigtail - SC/UPC OM3 Simplex LSZH - Semi Tight Buffer - 0,9mm - 1,5 meter           |
| 7LUSBSLST-09MM-1,5  | Pigtail - LC/UPC OM3 Simplex LSZH - Semi Tight Buffer - 0,9mm - 1,5 meter           |
| 7TUSBSLST-09MM-1,5  | Pigtail - ST/UPC OM3 Simplex LSZH - Semi Tight Buffer - 0,9mm - 1,5 meter           |
| 7FUSBSLST-09MM-1,5  | Pigtail - FC/UPC OM3 Simplex LSZH - Semi Tight Buffer - 0,9mm - 1,5 meter           |
| 7E2USBSLST-09MM-1,5 | Pigtail - E2000/UPC OM3 Simplex LSZH - Semi Tight Buffer - 0,9mm - 1,5 meter        |
| 7SUSCLST-09MM-1,5   | Pigtail - SC/UPC OM4 Simplex LSZH - Semi Tight Buffer - 0,9mm - 1,5 meter           |
| 7LUSCLST-09MM-1,5   | Pigtail - LC/UPC OM4 Simplex LSZH - Semi Tight Buffer - 0,9mm - 1,5 meter           |
| 7TUSCLST-09MM-1,5   | Pigtail - ST/UPC OM4 Simplex LSZH - Semi Tight Buffer - 0,9mm - 1,5 meter           |
| 7FUSCLST-09MM-1,5   | Pigtail - FC/UPC OM4 Simplex LSZH - Semi Tight Buffer - 0,9mm - 1,5 meter           |
| 7E2USCLST-09MM-1,5  | Pigtail - E2000/UPC OM4 Simplex LSZH - Semi Tight Buffer - 0,9mm - 1,5 meter        |