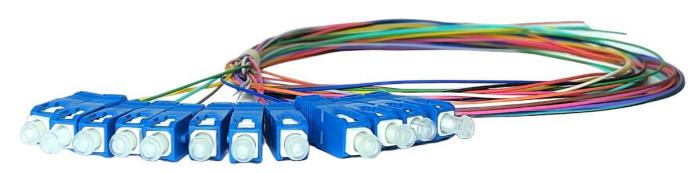# UNISOL COMMUNICATIONS

**FIBER OPTIC PIGTAIL**

## Description

UNISOL Fiber Optic Pigtails include basic and customized products such as FC, SC, LC, ST, MU, MT, and E2000. They can be used for single-mode and multi-mode cables in simplex, duplex, and micro-duplex configurations. These products, with low insertion loss, high return loss, and excellent durability and stability characteristics, provide customers with fast, convenient, and high-quality connectivity

## Features

• Low insertion loss and high return loss.
• Three end-surface polishing methods: PC, UPC, APC.
• Mechanical durability: 500 times of use.
• Cable materials compliant with OFNR and OFNP flame retardant ratings.

## Standards

Our fiber pigtails comply with the Telecommunications Industry Association's TIA-598-C Optical Fiber Cable Color Coding Standard, which provides all necessary information for color-coding optical fiber cables in a uniform manner. It defines identification schemes for fibers, buffered fibers, and fiber units.

TIA-598-C replaced the previous issue of ANSI/EIA/TIA Standard 598, dated 2001. Changes included the following: designation of Aqua (AQ) as the jacket color for indoor cable containing laser-optimized (LO) 50/125 µm MM optical fiber designation, and of Blue (BL) as jacket color for indoor cable containing polarization-maintaining fiber; expanding the color definition for Slate (SL); and adding color definitions from ANSI/EIA Standard 359-A, colors for Color Identification and Coding, for reference.

## Fiber Color Codes Chart

| Fiber Number | Color |
|:---:|:---:|
| 1 | Blue |
| 2 | Orange |
| 3 | Green |
| 4 | Brown |
| 5 | Slate |
| 6 | White |
| 7 | Red |
| 8 | Black |
| 9 | Yellow |
| 10 | Violet |
| 11 | Rose |
| 12 | Aqua |

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# UNISOL COMMUNICATIONS

**FIBER OPTIC PIGTAIL**

## Specifications

| | | |
|---|---|---|
| Connector Type | SC/FC/LC/ST/MU/E2000/... | |
| Optical Fiber | Single-mode | Multi-mode |
| Insertion Loss (dB) | Typical: 0.20; maximum: 0.30 | Typical: 0.20; maximum: 0.30 |
| Return Loss (dB) | PC ≥ 45, UPC ≥ 50, APC ≥ 60 | NA |
| Standards Compliance | Compliant with Telcodia GR-326-CORE Issue 4, IEC 61754 series, YD/T 1272 series, and  RoHS standards | |
| Operating Environment | -25 C to +70 C | -25 C to +70 C |
| Environmental Protection | Compliant with RoHS standard | Compliant with RoHS standard |

## Order Guide

| A-end Connector | Polish Method | B-end Connector | Polish Method | Fiber Type | Cable Type | Length |
|---|---|---|---|---|---|---|
| FC | PC | FC | PC | G652D | 2.0 mm | 1 m |
| SC | UPC | SC | UPC | G657A2 | 3.0 mm | 5 m |
| LC | APC | LC | APC | Customized | Customized | 10 m |
| ST | -- | ST | -- | -- | -- | 20 m |
| MTP | -- | MTP | -- | -- | -- | Customized |

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