

Pigtail end face UPC



Article Overview

A UPC (Ultra Physical Contact) fiber pigtail has a slightly curved, flat-convex end face designed for low back reflection and precise core alignment, commonly used in single-mode fiber networks.

Overview of UPC Fiber Pigtails

A fiber optic pigtail is a short length of fiber with a factory-installed connector on one end and an unterminated end for splicing to a trunk cable or backbone fiber . The UPC polish refers to the shape of the connector end face: it is flat-convex without an angle, providing a smooth physical contact that minimizes insertion loss and back reflection . UPC connectors are typically blue to distinguish them from APC connectors, which are green and angled .

Key Features

- Connector Types: LC, SC, FC, and ST connectors can have UPC polish . LC UPC pigtails are popular for high-density installations due to their small form factor .
- Fiber Type: Most UPC pigtails are single-mode (OS2) with 9/125 μm core/cladding, suitable for telecom, FTTx, and data center applications .
- Performance: UPC pigtails offer low insertion loss and return loss around -50 dB, which is sufficient for most standard network applications .
- Construction: They often use 900 μm tight-buffered fiber for easy handling and fusion splicing . High-precision zirconia ferrules ensure accurate alignment and stable optical performance .
- Applications: Ideal for terminating incoming fiber cables in ODF frames, splice tra...

Article Content

A Comprehensive Guide to APC, UPC, and PC Connectors in Fibre

PC and UPC Connectors: Flat Polishing PC (Physical Contact) and UPC (Ultra Physical Contact) connectors feature a straight, flat polished end-face. This design ensures that when fibres are

Fiber Pigtail Cable, Single Mode SC/UPC Square Head Fiber Optic Pigtail ...

Fiber Pigtail Cable, Single Mode SC/UPC Square Head Fiber Optic Pigtail, with PVC Outer Shell, 1.5m, for Optical Fiber Local Area

12 Fibres LC UPC Fibre Pigtail Single Mode Bunch 1.5m

FS offers 1.5m 12 fibres LC UPC single mode fibre pigtail with tight buffer design to achieve accurate mounting for precision alignment of fibre optic components.

What is a Fiber Optic Pigtail?

UPC Fiber Pigtail: It stands for ultra-physical contact connectors with a slightly domed end face. It is regarded as the

Fiber Optic Pigtails |

Worldwide delivery is available for all our high-quality Fiber Optic Pigtail solutions, ensuring your network communications are reliably supported wherever you are.

PC vs UPC vs APC Polishing Types in Fiber

PC, UPC, and APC polishing types Connection Image Fiber optic connectors are designed

Optic Fiber Pigtails

Optic Fiber Pigtails Optic Fiber Pigtails D-Link offers quality optical fiber pigtails which are single ended with connectors. D-Link pigtails come with good end-face geometry, full standard optical

PC vs UPC vs APC Fiber Connectors – What is the Difference?

To put it simply, PC, UPC, and APC define the type of polish used on the fiber optic connector end face or ferrule. The

What Is a Pigtail Connector? Types and Applications | CZT

Quick Answer A pigtail connector is a short cable with a connector on one end and bare (stripped) wire or fiber on the

Fiber Optic Pigtail: The Complete Guide to Types,

Confused about fiber optic pigtails—which connector type, which polish, fusion or mechanical splice? Our guide covers LC vs SC, APC vs UPC,

12 Fibers LC SC Fiber Pigtails for Sale

FS 12 fibers pigtails with LC SC connectors feature color-coded or bunch design for various fiber splicing applications. 100% end-face, 3D interferometer, IL & RL

Fiber Pigtails

FAWLCUC01 TeraSPEED ® LC/UPC to Unconnectorized, Fiber Pigtail, 0.9 mm Tight Buffer

Fiber Optic Pigtails

ShowMeCables offers a wide variety of fiber optic pigtails with LC, LC-UPC, SC, SC-UPC and ST connector types and in lengths of 1-m to 15-m. Order now!

Fiber Optic Pigtail: Types, Splicing Guide, Specs & Price

Pigtails should ship with dust caps, end-face protection, and cushioning that prevents the connectors from rattling. Reels and spools should be suspended or padded so the fiber is not crushed.

APC vs UPC vs PC: Fiber Connector End Face & Polishing Guide

Learn the key differences between APC vs UPC vs PC fiber connectors: end-face shape, return loss, polishing types, compatibility rules, and how to choose the right one.

What are the Features of APC Fiber Connectors?

Therefore, there are two types of fiber connector end faces in use: APC and UPC. The

Differences between the 3 Common End-face Types

Differences between the 3 Common End-face Types 1□Why should fiber optic end-faces be polished? With connectors mounted on one fiber end-face, return loss is unavoidable, which occurs due to

Fiber Optic Pigtail | Precise Termination for Fiber Networks

Fiber optic pigtails ensure excellent concentricity and minimal loss with high-precision ceramic ferrules. They provide stable and

APC, UPC, PC Fiber Connector Types Comparison and Selection

APC, UPC, and PC connectors define different shapes of fiber connector end faces. Either of them is physical contact

LC UPC Fibre Pigtail Single Mode PVC (OFNR) 1m

FS offers 1m LC UPC simplex single mode fibre optic pigtail PVC (OFNR) with tight buffer design for easy fusion or mechanical splicing. 100% end-face, IL & RL tested.

A Guide to Fiber End Face Shape and Polish

Explore the critical differences between UPC, APC, and expanded beam fiber end face

How to Choose Between PC, UPC, and APC Fiber Connectors

Compare PC vs UPC vs APC fiber connectors to choose the best type for your network. Understand differences in

APC, UPC, PC Fiber Connector Types Comparison and

End Face Structure - The basic difference between UPC vs PC is the structure of the end face of fiber connectors. The PC connector features an

PC vs UPC vs APC Polishing Types in Fiber

One thing that should be noted is that APC and UPC connectors cannot and should not be mated. Not only does mating cause poor performance

FC/UPC Singlemode 9/125µm OS2 PVC 0.9mm

Each FC Singlemode 9/125µm OS2 Simplex Fiber Optic Pigtail (Customized Length, UPC Polish, 0.9mm, PVC/OFNR, Yellow) has passed the

Contact Us

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