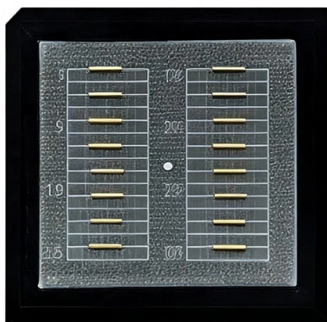


# What type of pigtail should be used for green fiber optic flanges



## Overview

Confused about fiber optic pigtails—which connector type, which polish, fusion or mechanical splice?

## Key Takeaways

Use a single-mode fiber pigtail with an APC (Angled Physical Contact) connector for green fiber optic flanges.

## Connector Type and Polish

Green fiber optic flanges are standardized to indicate APC connectors, which feature an 8-degree angled end-face to minimize back reflection and improve signal quality. Therefore, the pigtail must have a matching APC connector on the factory-terminated end. Never mix APC (green) with UPC (blue) ports, as this can cause high insertion loss and network issues.

## Fiber Type

For green APC connectors, the pigtail should be single-mode fiber, typically OS2, which is suitable for long-distance transmission and low attenuation. Multimode fibers (OM1-OM5) are not compatible with APC flanges and are generally used with blue or beige connectors. Pigtail Configuration Single-fiber pigtails are standard for most ODF and terminal box applications.

Multi-fiber pigtails are used in high-density panels but must also match the APC connector type if green flanges are present. The bare fiber end is designed for fusion splicing to the incoming fiber, ensuring a permanent, low-loss connection.

## Additional Considerations

Cable length: Typically 1–3 meters, depending on installation needs. Jacket type: Indoor pigtails are sufficient for protected environments, while armored or waterproof pigtails are recommended for outdoor or high-traffic areas. Color coding: Green connectors indicate APC; ensure consistent color coding across the installation to avoid confusion.

By selecting a single-mode APC pigtail with proper fiber type and polish, you ensure low insertion loss, high return loss, and reliable connectivity for green fiber optic flanges.

## Article Content

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,

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

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Fiber Optic Pigtails: Uses & Differences from Patch Cords

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#### Fiber cable termination

Termination Process In order to terminate a Fiber Optic cable, the appropriate connector must be determined. The type of fiber-optic adapter that the terminated cable will connect to will dictate which

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#### Guide to Fiber Optic Pigtails: Introduction, Applications

Fiber optic pigtails are a cornerstone in the architecture of modern communication systems. Their role, although often understated, is critical in

The Ultimate Guide to Fiber Pigtail

A Fiber Pigtail is a single, short, usually tight-buffered, optical fiber that has an optical connector pre-installed on one end and a length of exposed

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