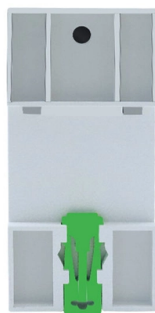


Fiber optic pigtail APCPC



Overview

Shop fiber optic pigtails for secure and effective networking. Fiber4u: 20 years of experience and international shipping.

Key Takeaways

A fiber optic pigtail APC is a short fiber cable with an angled physical contact (APC) connector on one end and a bare fiber on the other, designed for low-loss, low-reflection splicing in optical networks.

A fiber optic pigtail is a short length of optical fiber with a factory-installed connector on one end and an exposed fiber on the other end for splicing to a main fiber cable . The APC (Angled Physical Contact) connector features an 8-degree angled endface, which minimizes back reflection and improves signal quality, making it ideal for high-precision single-mode applications such as FTTH, CATV, and high-speed data networks .

Key Features

- Connector Type: APC connectors are commonly available in SC/APC, LC/APC, and other formats, depending on equipment compatibility .
- Polish Type: The angled polish reduces return loss, typically achieving values of 60 dB or higher, which is critical for sensitive optical systems .
- Fiber Mode: APC pigtails are usually single-mode (OS2, 9/125 μm) for long-distance, high-bandwidth applications .

- **Splicing Method:** The bare fiber end is designed for fusion splicing or mechanical splicing to the incoming fiber, ensuring a permanent, low-loss connection .

Applications

- **Optical Distribution Frames (ODF):** APC pigtails connect bulk fiber cables to patch panels or transceivers.
- **FTTH Deployments:** They provide reliable terminations for subscriber drop cables.
- **High-Speed Networks:** APC connectors reduce back reflection in DWDM and CATV systems, improving signal integrity.

Advantages

- **Low Back Reflection:** The angled endface prevents reflected light from returning to the source, protecting sensitive lasers.
- **High Reliability:** Factory-terminated connectors ensure consistent performance and reduce field termination errors.
- **Flexibility:** Pigtails allow custom-length splicing while maintaining the precision of factory connectors .

Selection Tips

- Match the connector type (SC/APC, LC/APC) to your equipment.
- Ensure the fiber mode aligns with your network (single-mode for long-distance, multimode for short-distance).
- Consider color coding for easy identification in high-density installations .
- Use proper fusion splicing techniques to minimize insertion loss and maintain network performance . Fiber optic pigtails with APC connectors are essential for high-performance optical networks, providing a reliable, low-loss interface between field fibers and active equipment while minimizing signal reflection and ensuring long-term network stability .

Article Content

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Fiber Optic Pigtails

Fiber optic pigtails are tight buffered fiber cables with a pre-terminated connector on one end and exposed

FC Fiber Optic Pigtail

FC fiber optic pigtail connector is compliant to IEC, TIA/EIA, NTT and JIS specifications. The FC connector is with PC, UPC, APC

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Simplex fiber pigtail and duplex fiber pigtails are available, with different cable color, cable diameter and jacket types optional. The

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Description Fiber optic pigtail has an optical connector pre-installed on one end and a length of exposed fiber at the other end. SC

SC Fiber Optic Pigtails

We supply SC fiber optic pigtails, including the single mode and multimode types, these SC fiber pigtails are with premium grade

LC Pigtail

LC Pigtail A fiber optic pigtail is a short length of optical fiber cable that has one end terminated with a fiber optic connector and the

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Fiber optic pigtails

We carry FO pigtails with a length of 2.0 m in the fiber types OS2 (singlemode) and OM1 to OM5 (multimode) with all common

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