

## Which SCFC pigtail fiber is the best



### Overview

High quality fiber pigtails combined with correct fusion splicing practices offer the best performance for fiber optic cable termination.

### Key Takeaways

High-quality SC-FC fiber optic pigtails are best sourced from reputable suppliers like Fiber Savvy, BWNFiber, and Amphenol LTW, which offer factory-terminated connectors, low insertion loss, and durable construction. Key Considerations for Choosing SC-FC Pigtails

Connector Quality and Polish Type: SC and FC connectors come in UPC (Ultra Physical Contact) and APC (Angled Physical Contact) polish types. UPC is standard for most data center and enterprise applications, while APC is preferred for FTTH and long-distance single-mode networks due to lower back reflection . Fiber Type: Use OS2 single-mode pigtails for long-distance or carrier networks and OM3/OM4 multimode pigtails for in-building or data center applications . Jacket and Buffer Options: Tight-buffered pigtails (0.9 mm, 2.0 mm, 3.0 mm) are common. Armored or outdoor-rated jackets provide extra protection against mechanical stress, moisture, and UV exposure . Splicing and Installation: Factory-terminated pigtails reduce field termination errors. Proper cleaning, cleaving, and fusion splicing are critical to maintain low insertion loss (typically 0.01–0.05 dB per splice) and high return loss .

#### Recommended Brands and Suppliers

- Fiber Savvy: Offers SC-FC pigtails in single-mode and multimode versions with partial outer jackets for protection. Known for high-quality materials and low attenuation, suitable for high-density applications .

- BWNFiber: Stocks a wide range of SC, FC, LC, ST, and E2000 pigtails with fast shipping. Provides factory-polished connectors and multiple buffer diameters, ideal for FTTH, carrier, and data center networks .

- Amphenol LTW: Recognized for robust SC and FC connectors with stable push-pull or threaded engagement, suitable for structured cabling and telecom racks. Offers consistent performance and broad compatibility with legacy hardware .

- Hello-Signal: Emphasizes trusted suppliers and high-quality ferrules, warning against cheap pigtails that fail within 6–12 months .

#### Practical Tips

- Always match connector type and polish to your existing network equipment.
  - Keep extra pigtails (10% more) for repairs or changes.
  - Use color-coded fibers for multi-fiber pigtails to simplify tracing and reduce errors .
  - Inspect and clean all fiber end-faces before splicing to avoid high-loss connections .
- Conclusion: For reliable SC-FC pigtails, prioritize factory-terminated, high-quality connectors from reputable suppliers like Fiber Savvy, BWNFiber, or Amphenol LTW. Consider fiber type, polish, jacket, and splicing requirements to ensure long-term network performance and minimal signal loss.

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How to choose fiber optic pigtails?

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