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Buacoz SSBZSCSC3

Buacoz SC/UPC to SC/UPC Single-Mode Fiber Optic Cable

MODEL: SSBZSCSC3 - INSTRUCTION MANUAL

1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your Buacoz SC/UPC to SC/UPC Single-Mode Fiber Optic Cable. This cable is designed for high-speed, reliable data transmission in various networking environments. Please read these instructions carefully before use.

2. Product Specifications

The Buacoz SC/UPC to SC/UPC Single-Mode Fiber Optic Cable (Model SSBZSCSC3) features the following technical specifications:

Feature	Description
Model Number	SSBZSCSC3
Cable Type	Single-Mode Fibre Optic (OS2)
Core Type	9/125um Simplex
Connectors	SC/UPC to SC/UPC
Connector Gender	Male-to-Male
Jacket Color	Yellow
Jacket Diameter	3.0mm
Jacket Material	Low Smoke Zero Halogen (LSZH) outer cover
Ferrule Material	Japan made Zirconia Ceramic

Polish Type	UPC
Insertion Loss	≤0.3dB
Return Loss	≥30dB
Operating Temperature	-20ºC to +75ºC
Minimum Installation Bending Radius	5.0cm
Minimum Long Term Bending Radius	3 cm
Compatible Devices	Personal Computer, Router, Television, SFP modules
Special Feature	For QSFP+ Transceivers Link



Image: Detailed product parameters and a visual representation of the SC/UPC connectors and cable.

3. Setup and Installation

Follow these steps to properly set up your fiber optic cable:

1. **Inspect the Cable:** Before installation, visually inspect the cable for any physical damage.
2. **Clean Connectors:** Always clean the SC/UPC connectors before insertion into any device. Use a suitable fiber optic cleaning tool or lint-free wipes with isopropyl alcohol. Dust and debris can significantly degrade performance.
3. **Identify Compatible Ports:** Locate the SC/UPC fiber optic ports on your compatible devices (e.g., Personal Computer, Router, Television, SFP modules).
4. **Connect the Cable:** Gently insert one end of the SC/UPC connector into the port until it clicks into place. Repeat for the other end. Ensure the connectors are fully seated.
5. **Manage Cable Routing:** Route the cable carefully, avoiding sharp bends or kinks. Maintain a bending radius greater than the specified minimums (5.0cm for installation, 3 cm for long term) to prevent signal loss or damage to the fiber.

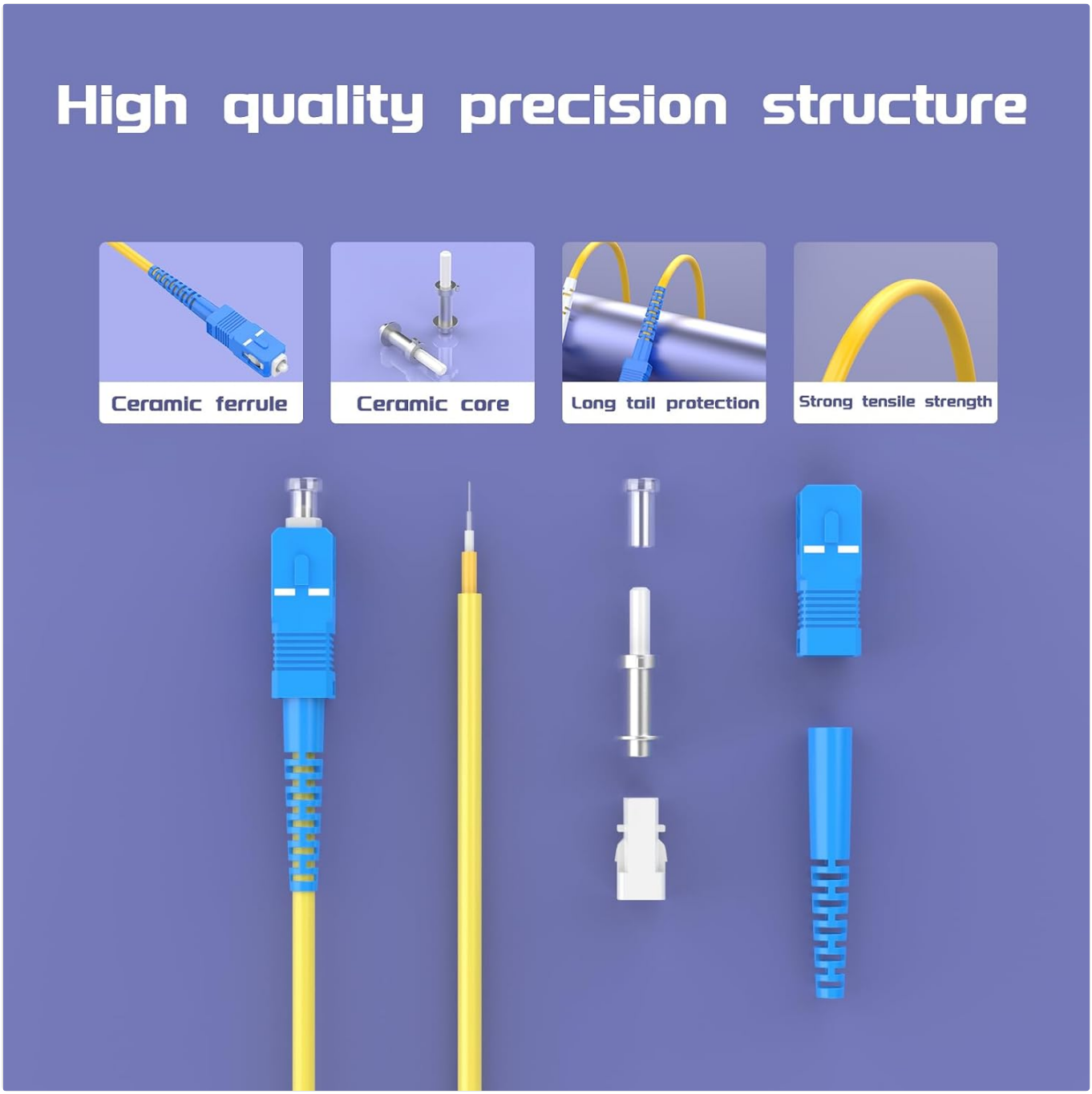


Image: Illustration of the cable's internal structure, highlighting the ceramic ferrule, ceramic core, long tail protection, and strong tensile strength.

4. Operating Instructions

Once the fiber optic cable is correctly installed and connected to your devices, it will facilitate optical data transmission. The cable supports various high-speed applications:

- Fast Ethernet
- Fiber Channel
- Gigabit Ethernet Speeds
- 10GBASE-LR (1310 nm)
- 10GBASE-ER (1550 nm)
- 1000BASE-LX (1300 nm)
- Asynchronous Transfer Mode (ATM) applications

It is suitable for use in data centers, premises, educational institutions, LAN, SAN, and commercial setups, supporting video, data, and voice services.



Image: Examples of environments where the fiber optic cable can be used, including wiring in machine rooms, video conferencing, network monitoring, home networks, internet cafe networks, and switch connections.

5. Maintenance and Care

Proper maintenance ensures the longevity and optimal performance of your fiber optic cable:

- **Connector Cleaning:** Regularly clean the fiber optic connectors to prevent signal degradation caused by dust or contaminants. Always use appropriate fiber cleaning tools.
- **Bending Radius:** Never bend the cable beyond its minimum bending radius (5.0cm for installation, 3 cm for long term). Excessive bending can damage the optical fiber and lead to signal loss.
- **Environmental Conditions:** The cable is designed to operate within a temperature range of -20ºC to +75ºC. While the product specifications indicate 'Outdoor' usage, the soft PVC cover is better suited for indoor environments. For outdoor or long-length applications requiring enhanced durability, an armored cable is

recommended.

- **Physical Protection:** Avoid placing heavy objects on the cable or exposing it to sharp edges that could cause cuts or abrasions.

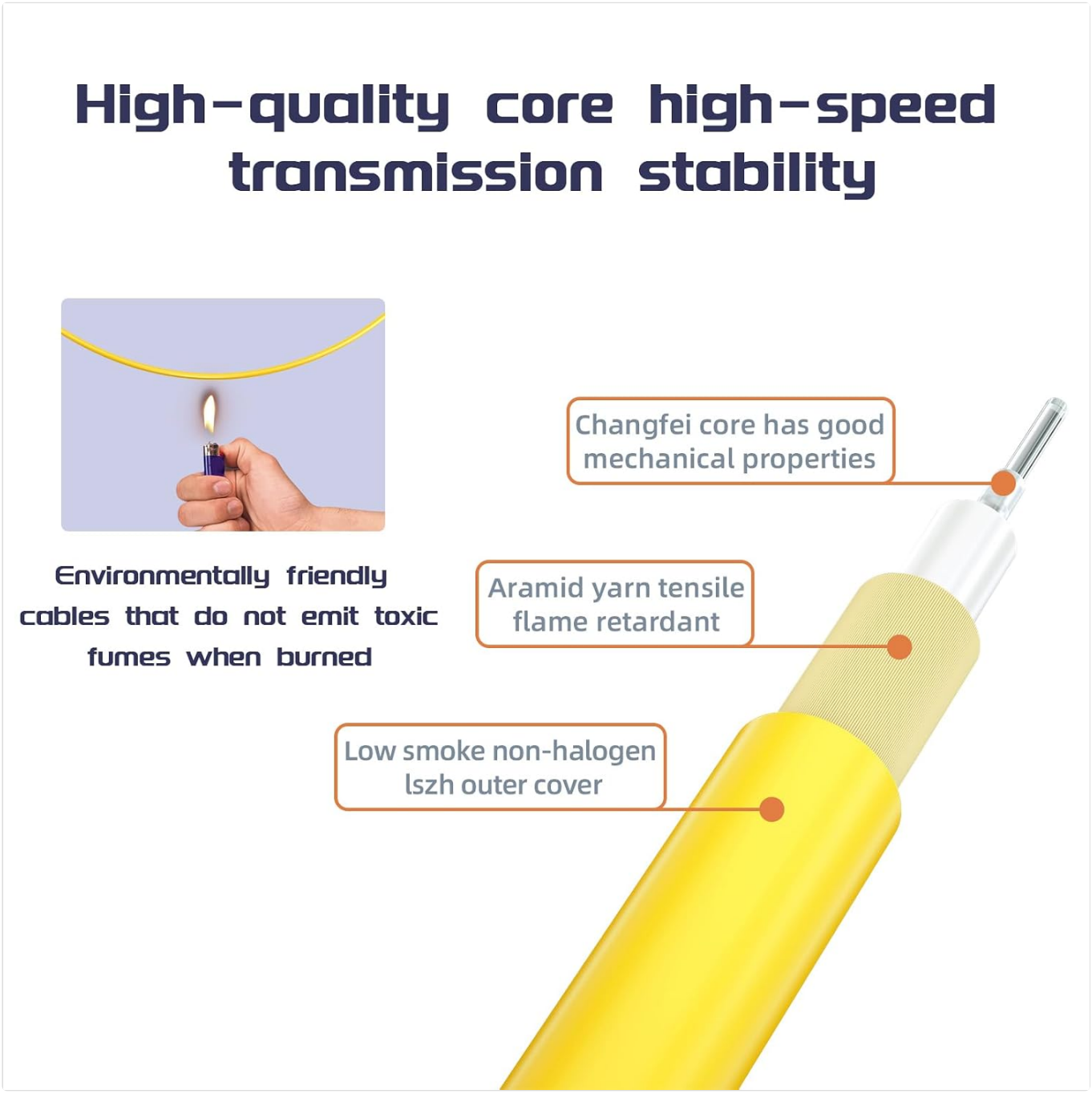


Image: Diagram illustrating the high-quality core, aramid yarn for tensile strength and flame retardancy, and low smoke non-halogen (LSZH) outer cover. Also shows a fire resistance test, indicating environmentally friendly cables that do not emit toxic fumes when burned.

6. Troubleshooting

If you encounter issues with your fiber optic cable, consider the following troubleshooting steps:

- **No Signal or Intermittent Connection:**
  - Verify that both ends of the cable are securely connected to the correct ports on your devices.

- Ensure the connectors are clean. Even microscopic dust can block the light signal. Re-clean connectors if necessary.
- Check for any visible damage to the cable, such as sharp bends, kinks, or cuts. Replace the cable if damage is found.
- Confirm that the connected devices are powered on and configured correctly for fiber optic input/output.

- **Slow Data Transfer or Poor Performance:**
  - Re-clean the connectors to ensure optimal light transmission.
  - Ensure the cable's bending radius is not compromised.
  - Verify that the cable type (Single-Mode OS2) is compatible with your network equipment's requirements.

7. Warranty and Support

Each Buacoz fiber optic cable undergoes rigorous factory testing to ensure it meets stringent quality control and insertion loss requirements, providing customers with high-quality and reliable products.
For any questions, technical assistance, or support, please contact our professional customer service team promptly. We are committed to assisting you with your product inquiries.

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