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FCD FCDUS46v4

FiberCablesDirect LC-LC OM3 Fiber Patch Cable User Manual

Brand: FCD | Model: FCDUS46v4

1. INTRODUCTION

This manual provides essential information for the proper use, installation, and maintenance of your FiberCablesDirect LC-LC OM3 Fiber Patch Cable. This high-performance fiber optic cable is designed for reliable data transmission in various networking environments.

2. PRODUCT OVERVIEW

The FiberCablesDirect LC-LC OM3 Fiber Patch Cable is a 3-meter (9.84ft) duplex 50/125μm multimode fiber optic cable. It features LC-LC connectors and utilizes Corning glass for optimal performance. This cable is engineered for high-bandwidth applications, supporting 10Gb, 40Gb, and 100Gb Ethernet over specified distances. Its aqua-colored, 2.0mm outer diameter, zip-cord reinforced design ensures durability and ease of handling.



Image: The FiberCablesDirect LC-LC OM3 Fiber Patch Cable, coiled, showcasing its aqua jacket and LC connectors on both ends.

3. KEY FEATURES

- **High-Speed Networking:** OM3 50/125 μ m multimode fiber with LC-LC connectors for high-bandwidth performance in data centers, telecom networks, and enterprise systems.
- **Corning Glass Core & Ceramic Ferrules:** Constructed with genuine Corning OM3 fiber and precision ceramic ferrules on LC-LC connectors, ensuring superior signal integrity and minimal insertion loss.
- **Multi-Speed Support:** Supports 1Gb (up to 550m), 10Gb (up to 300m), 40Gb (up to 100m), and 100Gb short-range Ethernet links, depending on the specific application and equipment.
- **Durable Construction:** Features a reinforced 2.0mm zip-cord jacket for flexibility, kink resistance, and easy installation in various environments.
- **Industry Standard Compliance:** Fully inspected and tested in compliance with ANSI/TIA/EIA standards for durability and performance.

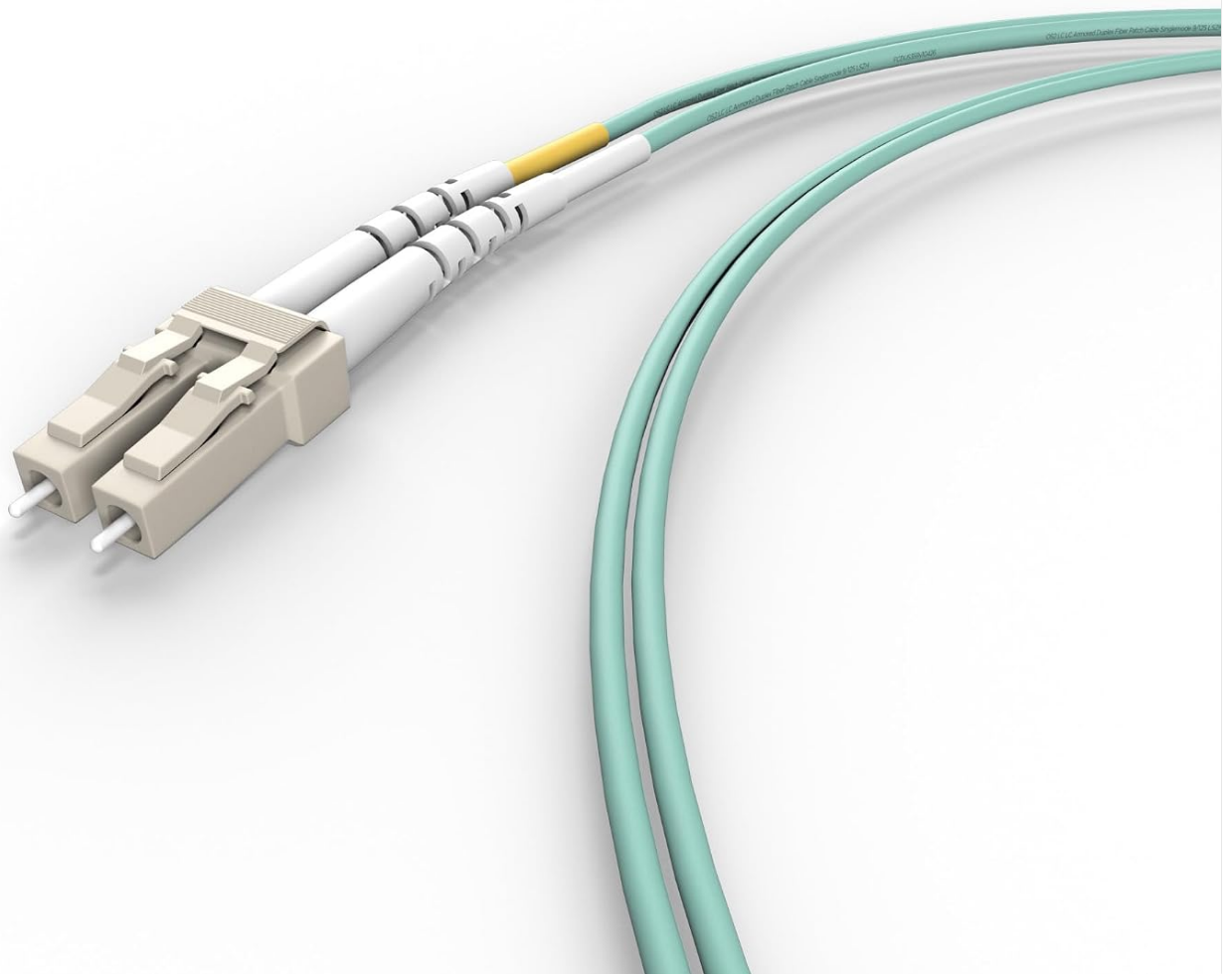


Image: A close-up view of the LC connectors, highlighting the precision ceramic ferrules and duplex design.

4. SETUP

1. **Inspect the Cable:** Before installation, carefully inspect the fiber optic cable and its connectors for any visible damage. Ensure the protective caps are in place.
2. **Clean Connectors:** Always clean the fiber optic connectors before connecting them to equipment. Use a specialized fiber optic cleaning tool or lint-free wipes with isopropyl alcohol to remove dust and debris.
3. **Identify Ports:** Identify the appropriate LC ports on your network equipment (e.g., switches, transceivers, patch panels). Ensure they are compatible with OM3 multimode fiber.
4. **Connect the Cable:** Gently insert the LC connectors into the corresponding ports until you hear or feel a click, indicating a secure connection. Ensure the duplex connection maintains the correct transmit (Tx) and receive (Rx) polarity.
5. **Secure the Cable:** Route the cable carefully, avoiding sharp bends, kinks, or excessive tension. Use cable ties or management panels to secure the cable and prevent accidental disconnections or damage.

Important: Never look directly into the end of a fiber optic cable when it is connected to active equipment, as invisible laser light can cause eye damage.

5. OPERATING INSTRUCTIONS

Once properly installed, the FiberCablesDirect LC-LC OM3 Fiber Patch Cable operates passively as a data transmission medium. Its function is to reliably carry optical signals between compatible network devices.

- Ensure all connected devices are powered on and configured correctly for fiber optic communication.
- Monitor network indicators on your equipment to confirm signal integrity and data flow.
- Avoid disconnecting the cable while data transmission is active, unless necessary for maintenance or reconfiguration.

6. MAINTENANCE

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

- **Cleaning:** Regularly clean the fiber optic connectors, especially when disconnecting and reconnecting. Dust and contaminants are the primary causes of signal loss in fiber optic systems.
- **Handling:** Always handle fiber optic cables with care. Avoid bending them beyond their minimum bend radius (typically around 10 times the cable diameter for patch cables) to prevent damage to the optical fibers.
- **Storage:** When not in use, store the cable in a clean, dry environment with protective caps on the connectors to prevent dust accumulation.
- **Inspection:** Periodically inspect the cable jacket for any signs of wear, cuts, or damage.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No signal or intermittent connection	Dirty connectors, incorrect connection, damaged cable, incompatible equipment.	Clean connectors thoroughly. Ensure connectors are fully seated and polarity is correct (Tx to Rx). Inspect cable for damage. Verify equipment compatibility.
Reduced network speed	Excessive cable bends, dirty connectors, signal degradation over distance.	Check cable routing for sharp bends. Clean connectors. Ensure cable length is within OM3 specifications for your desired speed.
Connectors do not fit	Incorrect connector type.	Verify that your equipment requires LC connectors. This cable uses LC-LC connectors.

DATA CENTER GRADE CABLES TESTED DAILY



Image: An EXFO fiber optic tester displaying test results, indicating the cable's performance metrics like insertion loss and return loss.

8. SPECIFICATIONS

Brand: FCD (FiberCablesDirect)

Model Number: FCDUS46v4

ASIN: B0099S4L00

Cable Type: OM3 (Multimode) - 50 micron core, 125 micron cladding

Connector Type: LC to LC (Duplex)

Length: 3 Meters (9.84 feet)

Data Rate Support: 1Gb (550m), 10Gb (300m), 40Gb (100m), 100Gb (short-range)

Modal Bandwidth: 1500/2000 MHz-km at 850nm/1300nm

Core Material: Corning Glass

Jacket Diameter: 2.0mm

Compatible Devices: Personal Computers, Servers, Routers, Network Switches

Product Dimensions: 8 x 8 x 1 inches; 1.13 ounces

9. WARRANTY AND SUPPORT

FiberCablesDirect offers a **100% Lifetime Warranty** on all Fiber Cables Direct products, ensuring long-lasting durability and superior performance. For technical support or warranty claims, please refer to the contact information provided with your purchase or visit the official FiberCablesDirect website.

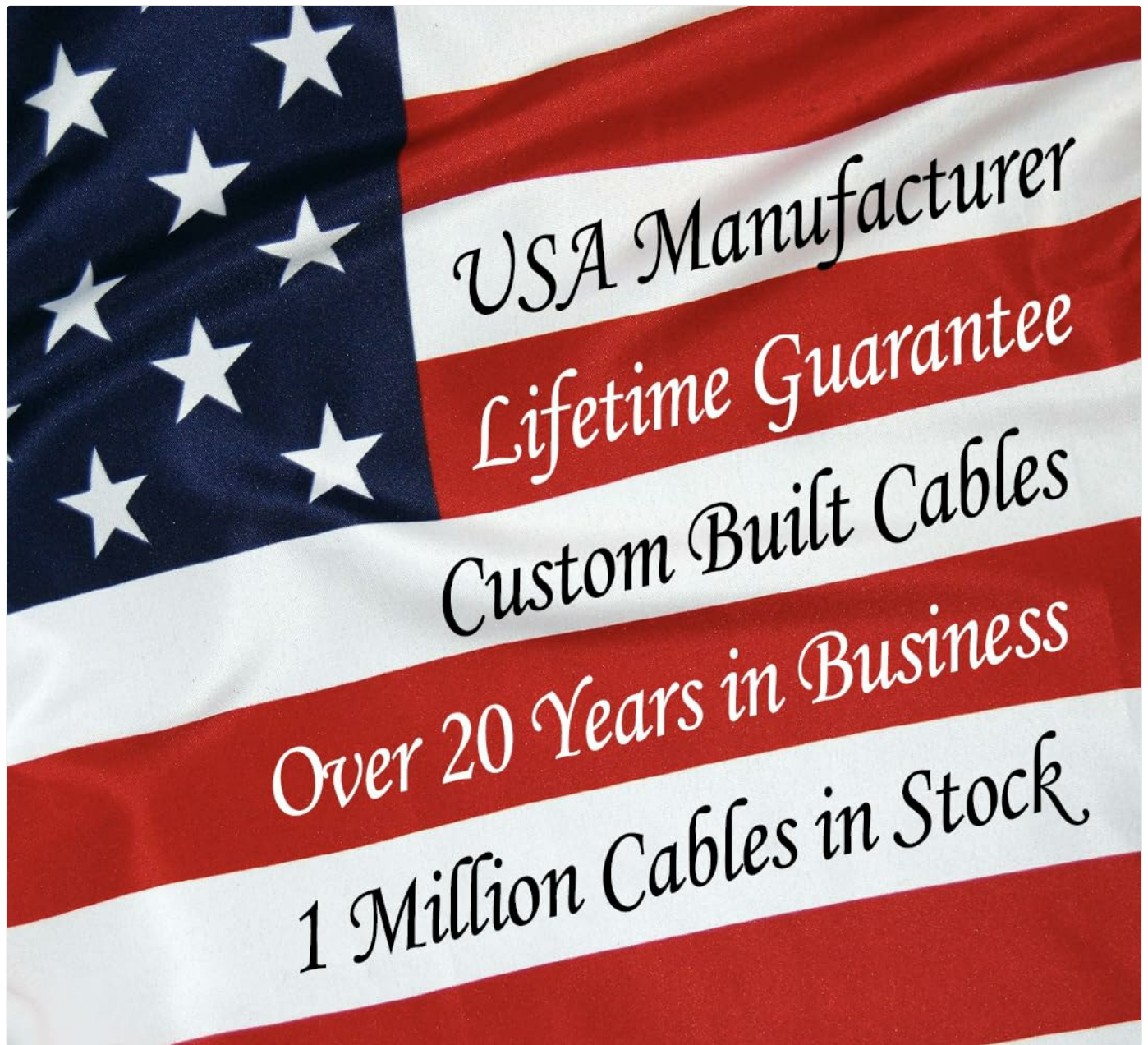


Image: An American flag background with text highlighting company values such as "USA Manufacturer" and "Lifetime Guarantee".

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Question

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Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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