

## Instructions for Use and Safety Warnings for Fiber Optic Patch Cables (Fiber Patch Cable)

### Introduction

This document provides essential instructions for the safe and efficient use of fiber optic patch cables. Fiber optic patch cables are high-precision components that enable high-speed data transmission. Proper handling is crucial to maintain their performance and to prevent damage to equipment and harm to individuals.

### Safety Warnings

#### Avoid Exposure to Laser Light

Never look directly at the ends of the patch cable when it is connected to an active device. The laser light transmitted through fiber optic cables is invisible and can cause serious and permanent eye damage.



#### Use Eye Protection

In work environments with active lasers, always wear appropriate eye protection. Accidental exposure to laser light without protection can have dangerous consequences.

#### Handling Connectors

Handle connectors only by the housing or plastic covering. Never touch the fiber contact surfaces (ferrule) to avoid contamination, scratches, or breakages that could reduce signal quality.

#### Avoid Excessive Force

Do not bend the cable beyond the minimum recommended radius (generally 10 to 15 times the cable diameter) to avoid internal fiber damage that could compromise performance.

#### Storage Conditions

Keep patch cables in a dry environment, protected from moisture, dust, and direct sunlight or heat sources. These factors can deteriorate the cable material and efficiency.

#### Disconnect and Connect Carefully

Ensure the equipment is turned off before connecting or disconnecting fiber optic cables to prevent electro-optical damage. Insert connectors gently without forcing them, as a poor fit could damage the port.

## Usage Instructions

### Preparation of the Work Area

Ensure the work area is clean and free of dust. Place the cable on a protected surface to avoid contact with dirt, dust, or any particles that could affect the connections.

### Cable Installation and Connection

Check that connectors are clean before inserting them into ports.

Insert the connector fully and smoothly, avoiding sudden movements.

If necessary, use an appropriate cleaning tool to clean the ferrule before connection.

### Signal Verification

Once connected, verify the signal to ensure optimal connection. In case of significant signal loss, disconnect the cable and recheck that both connectors are clean and undamaged.

### Cable Disconnection

Turn off the equipment before disconnecting the patch cable.

To disconnect, gently pull the connector, avoiding force on the cable.

Place protective caps on both connector ends once disconnected to prevent damage or contamination.

### Maintenance

Periodically inspect the cable and its connectors.

Do not perform routine ferrule cleanings unless necessary, as it is best not to fix what isn't broken.

Check that the cable is not twisted or bent and keep it in a clean, dry environment.

### Environmental Considerations

Avoid exposing the cable to extreme temperatures, humidity, or direct sunlight for prolonged periods, as these conditions can degrade the materials and affect performance.

### Handle with Care

When handling the cable, avoid placing objects on top of it, and refrain from pulling or stretching it, as this could damage the internal fibers and compromise signal quality.

### Storage and Transportation

#### Protective Wrapping

Store fiber optic patch cables in their protective wrapping to prevent contact with dust or particles. Use caps to cover the connector ends.

#### Transportation Conditions

During transportation, avoid compressions, twists, or pressures that could damage the cable. Place the cable in a secure position without any weight on it.

## Common Troubleshooting

**Signal Loss:** Check if the connector is clean and free from particles. Verify that the cable is fully inserted into the connection ports. Ensure there are no bends in the cable.

**Connector Wear:** Inspect the connector for visible signs of wear or damage. Replace the connector if necessary to maintain signal quality.

If the connector shows visible wear, such as scratches or deformations, replace it. Using damaged connectors can cause data transmission failures.

## Cleaning Recommendation

Use a special cloth to clean the fiber optic before each connection (included with some units). Use specific cleaning kits for fiber optics and avoid using liquids or products that are not recommended.

### Compliance and Standards

This product complies with international fiber optic safety and quality standards. It is recommended to check compliance with any specific regulations of the country or region where this cable is used.

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For additional technical inquiries or product information, please contact us through any of the channels listed above. Our support team is available Monday through Friday, from 9:00 a.m. to 6:00 p.m. (Spain time).