

The optical patch cords of both switches are not working



Overview

If the fiber between the 2 sites is multi-mode, you need to use a multi-mode cable to the switch if it is single mode than you need a SM patch cord. If all your fiber is correct and tested than try to swap the fiber strand on one side of the connection and see if that help. I've verified to make sure that I am using the 10gig SFPs. The switches connect as expected when in the same room and connected using 1m or 3m patch cables. This is where it gets strange. Equipment cords are an integral part of any network—whether it's a fiber jumper used to make connections between fiber patching areas and switches in the data center or a copper patch cord out in the LAN to connect end devices to the work area outlet. Unfortunately, equipment cords are also. Patch cord polarity defines the directional optical path between two transceivers, ensuring that the transmit (Tx) signal from one device reaches the receive (Rx) port of the other. Here is the details: Device #1 - CISCO Catalyst 3550 (C3550-I9Q3L2-M) IOS 12. 1 (20)EA1a using a GBIC model # WS-G5486 (1000BASE-LX/LH with a 1300nm wavelength).



Article Content

How to Test Patch Cords and Fiber Jumpers

Equipment cords are an integral part of any network—whether it's a fiber jumper used to make connections between fiber patching areas and

Fiber-optic cable

A fiber-optic cable, also known as an optical-fiber cable, is an assembly similar to an electrical cable but containing one or more optical fibers that are used to carry light.

Common Problems And Solutions When Using Optical

First, check whether the status of the optical port is on, and then check whether the optical module parameters of both ends are matched (such as wavelength,

The FOA Reference For Fiber Optics

Fiber Optic Link Polarity Since most fiber optic links use two fibers transmitting in opposite directions to create a full duplex link, you need to ensure that

A Guide to Patch Cord Management for Fiber Optic

Did you know that managing patch cords fiber optic solutions can be divided into four parts In this blog James Donovan explains those parts and

Fiber Polarity Basics for Duplex Applications

Fiber polarity is the direction that light signals travel from one end of a fiber optic cable (link) to the other. A link's transmit signal (Tx) must match its corresponding receiver (Rx) at the other

A Beginner's Guide to Fiber Patch Cables

A fiber patch cable consists of a length of fiber optic cable with connectors on both ends, to transmit optical signals between fiber optic

Fiber Patch Cord Types: How to Choose the Correct One?

A Fiber patch cord, also named as a fiber patch cable or fiber jumper, is a fiber optic cable that is terminated with different types of fiber connectors.

Fiber Polarity: Everything you Need to Know

Method B uses crossed MPO array cables with Type B key-up connectors on both ends, creating the fiber polarity flip without the need for an A

What is Optical Fiber Patch Cord?

1.2 Applications in Modern Communication Networks Optical fiber patch cords are the “capillaries” of modern optical communication networks, with extremely wide applications: Data

How to Test Patch Cords and Fiber Jumpers

A copper patch cord and fiber jumper connection test was conducted to see which brands can consistently pass industry standards. See the results here.

Management of patch cables in integrated wiring

Managing fiber optic patch cables requires strict adherence to technical standards due to the unique material properties of the cables. This

Fiber Patch Cords

Following are a few important points which should be kept in mind during the connection and disconnection of optical fiber patch cords; Use of proper personnel protective equipment (PPE) must

Fiber connectivity between 2 switches

Each patch cable was “ab” to “ba”, and two of them together (one on each end) was causing this issue. I was able to separate the LC/LC connectors and swap one end to make the

Connect two Fiber Optic Cables using Patch Cord?

That is because patch cables are twisted, and you need an odd number of twists so that TX goes to RX on the devices. Adding a twisted patch cable in the middle can introduce an even

What Are Fiber Patch Cords and Their Role in Networking

Fiber patch cords, or fiber patch cable are optical cables with connectors on both ends, designed to link devices in a network and transmit

Connection between two optic fiber patch panels

Two lines are needed for each pair of switches with a duplex SFP, making it 4 drop cables in total between the patch panels. Also the drop cables should have SC terminations since that is the type

HELP! Fibre Optic problem with two Cisco switches

I've had plenty of brand new optics come DOA... so don't assume new = working. The RMA process is pretty painless... but if you have spares, determine which one isn't functioning.

Fiber Patch Cables Explained 2025: Types, Connectors,

Introduction: why fiber patch cables matter? In a modern data center, every high-speed optical link depends on the right fiber patch cable. These short

Understanding Patch Cord Polarity in Fiber Networks

This article provides a technical explanation of polarity in duplex and parallel fiber patching, supporting correct Tx-Rx alignment in structured cabling

Troubleshooting Fiber Optic Connections: Ensuring Proper TX and RX ...

Identify the Patch Cables: Locate the fiber optic patch cables connected to the TX and RX ports on both devices. Gently Disconnect the Cables: Carefully unplug the patch cables from both

Fiber Optic Patch Cords Guide | Types, Connectors

Explore fiber optic patch cords for telecom, data centers, and FTTH. From LC/SC to MPO/MTP and armored jumpers, ZION Communication offers

Fiber Optic Patch Cords: A Complete Guide to Types,

Fiber optic patch cords come in various types to suit different applications,At CloudTop Cable,Whether you need single-mode or multimode, simplex or duplex,

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