

Utility Patent for Fiber Optic Patch Cords



AI Overview

Utility patents for fiber optic patch cords protect novel designs, systems, and methods for connecting, identifying, and managing optical cables. Overview of Fiber Optic Patch Cord Patents A fiber optic patch cord is a cable used to connect optical devices for signal routing. Utility patents in this area typically cover innovations in:

- Connector design: Hybrid connectors or watertight optical connectors that improve reliability and field installation (e.g., US9310568B2)
- Cable identification: Systems using RFID tags embedded in connectors to store and communicate cable identification information, enabling technicians to quickly identify and connect the correct jumper cables (Patsnap Eureka)
- Patching systems: Modular systems with cassettes, chassis, and alignment mechanisms for easy installation, routing, and management of multiple fiber optic cables (e.g., US10281672B1)

Key Features Often Patented

- Connectors and Assemblies: Patents may describe optical connectors with unique mechanical or hybrid designs that enhance durability, ease of use, or compatibility with telecommunication enclosures.
- Identification and Tracking: RFID-enabled connectors or memory chips attached to patch cords allow automated logging and monitoring of cable connections, reducing errors in large networks.
- Cable Management Systems: Patents may cover chassis, cassettes, and channels that facilitate organized routing, locking mechanisms, and modular installation for multiple patch cords.
- Signal Integrity and Performance: Some patents focus on minimizing signal loss, crosstalk, or mode coupling in multi-core or hybrid fiber assemblies.

Searching and Filing a Utility Patent

- Prior Art Search: Use the USPTO patent search tool to identify existing patents and ensure novelty (<https://>)
- Patent Drafting: Clearly define claims covering the unique aspects of your patch cord, such as connector design, identification system, or cable management method
- Filing: Submit a utility patent application with detailed descriptions, drawings, and claims....

Article Content

Fiber Patch Cables – fiber-optic patch cords,

Fiber patch cables are a protected and connectorized fiber-optic cable, mostly used for short-distance connections e.g. in telecom installations.

Certain Fiber-Optic Connectors, Adapters, Jump Cables, Patch Cords ...

Certain Fiber-Optic Connectors, Adapters, Jump Cables, Patch Cords, Products Containing the Same, and Components Thereof; Notice of Institution of Investigation, 32459-32460

USITC Institutes Section 337 Investigation of Certain Fiber-Optic ...

The complaint alleges violations of section 337 of the Tariff Act of 1930 in the importation into the United States and sale of certain fiber-optic connectors, adapters, jump cables, patch cords,

The Comprehensive Guide to Fiber Optic Patch Cables

Discover how fiber optic patch cables are integral to the seamless operation of modern networks, offering significant advantages.

Certain Fiber-Optic Connectors, Adapters, Jump Cables, Patch Cords ...

CERTAIN FIBER-OPTIC CONNECTORS, ADAPTERS, JUMP Investigation No. 337-TA-1399 CABLES, PATCH CORDS, PRODUCTS CONTAINING THE SAME, AND COMPONENTS THEREOF

Fiber Optic Patch Cords – Fiber optic patch cords supplier,Fiber optic ...

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

Fiber Optic Patch Cord Components and Types

Learn what accessories make up fiber optic patch cords—fiber cable, housing, ferrule—and explore major types like SC, LC, FC, MPO, and more.

Patch cable patented technology retrieval search results

A telecommunications patching system includes a patch panel comprising a plurality of connector ports and a plurality of patch cords configured to selectively interconnect pairs of the connector ports.

Fiber Patch Cords for FTTH | Uses, Applications

Fiber Patch Cords—The Unsung Hero of FTTH In a world where fast internet is a basic utility, FTTH (Fiber To The Home) deployment is

Fiber Optic Patch Cables

The patch cords provide flexible interconnection to active equipment, passive optical devices and cross-connect. We offers diverse range of single fiber ferrule

Hybrid fiber connector patch cord assemblies

More particularly, the present description relates to fiber patch cable assemblies that provide adaptability between a terminal and a drop cable having different connection formats.

US6901191B2

The fiber optic cable may exclude a grease or a grease-like composition being in contact with the at least one bundle for filling interstices of the cable thereby blocking water from flowing through the

Certain Fiber-Optic Connectors, Adapters, Jump Cables, Patch Cords ...

The complaint alleged violations of section 337 of the Tariff Act of 1930, as amended, 19 U.S.C. 1337, based upon the importation into the United States, the sale for importation, and the sale within the

Optic Fiber Patch Cord

Patch Chords D-Link patch cords are available with full standard optical specifications, precise length tolerances. All assemblies are 100% inspected for

Case | USITC Investigations

337-1399 Certain Fiber-Optic Connectors, Adapters, Jump Cables, Patch Cords, Products Containing the Same, and Components Thereof Phases ... Unfair Import Orders ... Participants

Hybrid fiber connector patch cord assemblies

Fiber patch cable assemblies are described. More particularly, fiber patch cable assemblies that provide adaptability between a terminal and a drop cable having different connection formats are described.

Search for patents | USPTO

Find existing patents, published patent applications, and other published patent documentation.

Buying Guide Fiber Patch Cords | AMP CONNECT®

Choosing Simplex or Duplex Patch Cord: Simplex patch cords feature a single fiber optic connector at each end, allowing data transfer in one direction. Duplex patch cords have two connectors at each

FS Community

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

Optical Fiber Patents (Class 398/20)

Search for Optical Fiber Patents and Patent Applications (Class 398/20) Filed with the USPTO

OCC Patent Information

This page is intended to provide notice under 35 U.S.C. § 287 (a) for the products and associated patents listed below. Additional patents may be marked on products or product packaging.

US9335503B2

A fiber optic cable includes an optical fiber, a strength layer surrounding the optical fiber, and an outer jacket surrounding the strength layer. The strength layer includes a matrix material in which is

Fiber Patch Cables – The Basics | DigiKey

Fiber patch cables are also known as fiber optic patch cords or jumper cables. They are a type of cable that consists of one or more optical fibers

Fiber Patch Cords: A Critical Component in Modern Fiber Optic

Selecting high-quality fiber patch cords with minimal signal loss characteristics is crucial for maintaining high data transmission rates, especially in longer networks such as those using

Fiber Optic Cable Assemblies

Fiber Optic Cable Assemblies Corning offers the most complete line of connectors and factory-terminated cables, from single-fiber patch cords to high-fiber-count

U.S. Patent for Fiber optic patch panel Patent (Patent # 5,127,082 ...

Fiber optic patch panels provide an interface between incoming fiber optic cables and optoelectronic equipment, and by providing access to an organized array of fibers and fiber connections, facilitate

Optical fiber patented technology retrieval search results

This page includes the patent name, patent number, legal status, invention/applicant, technical efficacy and accompanying drawings of Optical fiber-related invention patents and utility model patents,

Optical Fiber Patents (Class 398/20)

Abstract: The present invention provide an optical distribution method that includes determining, a first optical distribution frame and a second optical distribution frame, and generating first port indication

Contact Us

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