The optical module pull ring is on top



Overview

The utility model discloses a pull ring device suitable for an optical module, and belongs to the technical field of optical communication.

Key Takeaways

The pull ring on an optical module is positioned on top of the module, serving as the primary mechanism for unlocking and extracting the module.

Placement and Function

The pull ring is mounted on the top cover of the optical module, above the main body and base, allowing technicians to easily grasp and rotate it to unlock the module from its slot. This top-mounted design ensures that the pull ring remains accessible while preventing accidental detachment during handling. The pull ring is typically connected to a rotating shaft that facilitates smooth extraction, and the base often includes a pivot mounting groove to secure the mechanism.

Mechanical Design Considerations

Optical module pull rings are engineered for high precision and durability, especially in 5G and data center applications. They are manufactured from ultra-thin stainless steel or specialty alloys to maintain tensile strength, dimensional accuracy, and burr-free edges, which prevents damage to delicate fiber optic cables during insertion or removal. The top-mounted pull ring also allows for a compact footprint while providing reliable mechanical leverage for module extraction.

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Color Coding and Identification

In addition to mechanical function, the pull ring may feature color coding to indicate the module's fiber type, wavelength, or transmission specification. For example, black often represents 850nm multimode modules, blue indicates 1310nm single-mode modules, and other colors correspond to specific wavelengths or CWDM bands. This visual cue helps technicians quickly identify the module without removing it from the system.

Summary

The top-mounted pull ring is a critical component of optical modules, combining mechanical functionality for safe extraction with optional color-coded identification for operational efficiency. Its design ensures ease of use, reliability, and protection of sensitive optical components during installation and maintenance.

Article Content

Pull ring device suitable for optical module

The utility model discloses a pull ring device suitable for an optical module, and belongs to the technical field of optical communication.

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An existing optical module is provided with an unlocking assembly with a pull ring, and the unlocking assembly can be displaced relative to a shell by pulling the pull ring, so that the...

Meaning of Optical Module Pull Tap Colors

Optical module pull tab colors serve as a visual language in network operations and maintenance. Their core value lies in simplifying module selection and troubleshooting.

Understanding SFP Modules: Wavelength and Color Codes

Each SFP module operates at a specific wavelength, and to avoid confusion, manufacturers use color-coded pull rings for easy identification.

WO/2023/138151 OPTICAL MODULE

The electrically conductive members (30) fill gaps between the pull ring assembly (20) and the housing (10), such that electromagnetic waves can be prevented from leaking out via the gaps to cause an

SFP Pull Ring Rectangular Blue | Optical Module Accessory

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Rectangular blue SFP pull ring for optical modules. Durable, easy-grip design ensures quick installation and removal with reliable performance and long service life.

SFP Metal Pull Ring | Optical Module Accessory

SFP metal pull ring for optical modules. Durable stainless design ensures secure grip, easy installation and removal with long-lasting reliable performance.

Optical Module: What is its Structure And Design?

Optical module usually consists of a transmitter assembly (TOSA, containing a laser LD chip), a receiver assembly (ROSA, containing a photodetector PD chip), a driver circuit, an

5G Optical Module Pull Ring Stamping Line: High-Speed Setup

Executive Summary: Implementing a specialized 5G optical module pull ring stamping line directly dictates the yield rate and output volume of critical data center hardware components.

Pull Ring for Optical Module

With the continuous development of the global manufacturing industry and the rapid rise of China''s die-casting hardware products industry,

Pull ring, unlocking mechanism and optical communication module

The invention aims to overcome the defects in the prior art, and provides an unlocking mechanism which is simple in structure and easy to assemble and disassemble, wherein the pull ring for unlocking can

Titanium alloy optical module pull ring

The pull ring comprises the titanium alloy frame body, is formed in one step through a metal wire bending forming process, and is simple in procedure; the surface of the pull ring is adhered with fixed

Meaning of Optical Module Pull Tap Colors

4. 10G SFP+ Optical Module Pull Ring Colors 10G SFP+ red pull tab = ER 40km, white pull tab = ZR 80km; this color rule is the mainstream standard among mainstream brands including

How to identify the wavelength of SFP CWDM Optical module through

This blog ETU-LINK will show you how to identify the wavelength of CWDM optical module through the color of the pull ring. We all know that CWDM has a total of 12 wavelengths,with

How to Distinguish the Wavelength by the Color of the Pull Ring of the ...

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CWDM optical module, the color of its pull ring is colorful. There are 18 wavelengths in total, and the band is divided into prewave and postwave, the prewave is 1270nm-1450nm; the postwave is

Optical Module Pull Tab Colors: The Ultimate Guide to SFP, QSFP,

Optical Module Pull Tab Colors:Complete Guide to SFP, QSFP, and CWDM Coding Description: Decode optical module pull tab colors for SFP, QSFP+, BIDI, and CWDM modules.

How to distinguish the wavelength by the color of the pull ring of the ...

See the table for details: For the CWDM optical module,the color of its pull ring is colorful,with a total of 18 wavelengths.The wavelength band is divided into front wave and back wave,and the front wave is

Introduction of SFP Optical Module| Four-Faith

If the bare module is not marked, it is easy to be confused. Generally, manufacturers will distinguish the color of the pull ring. For example,

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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