

Huijue Single-Mode Fiber Optic Module Parameters



AI Overview

Huijue single-mode fibers are 9/125 μm bend-insensitive fibers (G657A2) designed for high-performance, low-loss optical transmission, fully compliant with IEC, TIA/EIA, and RoHS standards.

Key Optical and Physical Specifications

- Fiber Type: Single-mode, bend-insensitive (G657A2)
- Core/Cladding Diameter: 9 μm core, 125 μm cladding
- Mode Field Diameter (MFD): Optimized for single-mode operation, typically around 9 μm at 1310–1550 nm wavelengths
- Wavelength Range: Compatible with 1310 nm and 1550 nm transmission windows, supporting both analogue and digital signals
- Attenuation: Low-loss design, factory-tested to ensure minimal signal degradation over distance
- Bend Insensitivity: Designed to reduce macrobending losses, allowing tighter installation radii without significant signal loss
- Coating and Jacket: Industrial-grade materials for durability, wear resistance, and environmental compliance, suitable for data center and telecom applications

Standards Compliance

- ITU-T Recommendations: G.652 and G.657 (G657A2 variant)
- International Standards: IEC, TIA/EIA, RoHS directive
- Color Coding: 12 distinct colors compliant with TIA/EIA-598-A for easy identification and management

Warranty: 5-year warranty with quality assurance and after-sales support

Mechanical and Installation Attributes

- Durability: High resistance to wear and environmental stress, reducing maintenance and replacement costs
- Customization: Available in various lengths and packaging; minimum order quantity typically 500 pieces for full customization
- Connector Compatibility: Fully compatible with mainstream SC/APC connectors and other standard single-mode optical devices

Performance Considerations

Huijue single-mode fibers maintain high fidelity of light pulses over long distances due to the single-mode design, which eliminates modal dispersion. The G657A2 bend-insensitive variant allows for flexibl...

Article Content

Understanding Single-mode and Multi-mode SFP

A SFP single-mode optical modules and SFP multi-mode optical modules are incompatible. If you mix SFP single-mode optical modules and SFP multi-mode

RG 2.5GBASE Series

It adopts the SFP form factor and operates at a wavelength of 1310 nm. The transceiver conforms to SFF-8431, SFF-8472, and RoHS standards. The 2.5G-SFP-LX03-SM1550-BIDI-I is aligned to IEEE

Recommendation ITU-T G.652 (08/2024)

This document outlines the specifications for a single-mode optical fiber and cable designed for use around the 1310 nm zero-dispersion wavelength, suitable for

Huijue SC APC Single Mode Fiber Pigtail G657A2 Bend Insensitive

Why Choose Us 1.Full inspection of 12 pieces in batch, parameter consistency is 100%, and batch quality traceability is supported

Gigabit single-mode single-core fiber optic module

The general parameters and basic knowledge of Gigabit optical transceivers are difficult to master. The following will introduce the general parameters of the optical module and the basic

Cisco SFP Modules for Gigabit Ethernet Applications

This data sheet describes the benefits, specifications, and ordering information for the Cisco SFP Modules for Gigabit Ethernet Applications.

Fiber Optic Cable

Explore our Fiber Optic Cable collection, featuring main products like Optical Splitter, Fiber Patch Cord, and 695+ more items from Hai'an Huijue Network Communication Equipment Co., Ltd. on Alibaba .

ITU-T Rec. G.652 (11/2009) Characteristics of a single-mode optical ...

Characteristics of a single-mode optical fibre and cable Summary Recommendation ITU-T G.652 describes the geometrical, mechanical and transmission attributes of a single-mode optical fibre and

Huijue Fiber Optic Transceiver Corresponding Optical Module

In the world of fiber optic communications, optical transceiver modules play a pivotal role as interfaces that convert electrical signals to optical signals and vice versa.

Huijue Fiber Optic Patch Cord Technical Parameters

HJ provide high quality optical fiber patch cord, 100% tested quality guarantee before delivery, with ISO standards and RoHS compliant. Our product range covers both single mode and multi-mode

Optical Modules for Huawei S Series Switches

A multi-mode optical module cannot use a single-mode optical fiber. This is because a single-mode optical fiber is thin and may cause exceptions such as low optical power when it is used by a multi

Fiber Optic patch cord | HJ Network provide both single mode

Shanghai Huijue Technologies Group Co., Ltd Oct 23, 2020 Fiber Optic patch cord HJ Network provide both single mode and multi-mode Fiber optic patch cords which are fully

Huijue Single-Port Fiber Optic Switch

Fiber Optic Switches, Single-Mode Fiber Optical Switch Fiber optic switches (single-mode fiber optical switches) are passive devices possessing two or more ports which selectively transmits, redirects or

FiberHome ORTH000663 Datasheet

It supports dual data-rate of 1.25Gbps/1.06Gbps and 15km transmission distance with 9/125um single mode fiber. This 1G SFP LX transceiver module fully complies with the SFP Multi-Sourcing

Understanding Single-mode and Multi-mode Optical

Conclusion: In conclusion, single-mode and multi-mode optical modules and fibers serve distinct purposes in sfp optical module communication, offering

Huijue Fiber Optic Transceiver Corresponding Optical Module

Overview H87MMA5671A2 Huawei GPON CLASS B+ SFP compatible module (PN:03031QHU) is fiber optic transceiver designed for operation over Single-Mode Fiber (SMF) optical cable. It has minimum

Gigabit single-mode single-core fiber optic module

Gigabit single-mode single-core optical fiber modules usually have the following specifications: multi-mode 550m, single-mode 15km, 40km, 80km, 120km, etc. In addition to the

Huijue Optical Module Single Fiber

Our transceiver modules are available for commercial and industrial applications, supporting varying distances from 500m to 160km, depending on multimode or single-mode fiber.

Huijue Drop Cable 2-Core Multi Mode/Single Mode Optical Fiber CE ...

Huijue Drop Cable 2-Core Multi Mode/Single Mode Optical Fiber CE Certified Easy-Strip for FTTH/Indoor Networking Wiring No reviews yet \$0.05 Minimum order quantity: 5,000 meters

Huijue 80km 50g Optical Module

Engineered with precision, this QSFP28 module operates at a wavelength of 1311nm, supports a 50G data rate, and facilitates two-fiber bidirectional communication over distances of up to 80km.

Optic Modules Datasheet

4 Optic Modules Data Sheet ... SFP (form factor) = small form-factor pluggable transceiver SMF (media) = single-mode fiber-optic MMF (media) = multimode fiber-optic XFP (form factor) = 10-gigabit small

SFP Modules: Types, Selection Guide & Applications

Fiber Optic SFP Modules These modules use light signals to transmit data over fiber optic cables, offering high bandwidth and long reach. They are further divided into: Single-Mode SFP

How to Choose SFP Module | FIBEYE

Price Single-mode modules are typically more expensive than multi-mode modules because they use more components and more expensive laser light sources.

How to distinguish whether an optical fiber module is single-mode or ...

Correctly distinguishing single-mode and multi-mode optical modules is critical for matching fiber patch cords, ensuring transmission stability, and avoiding network failures.

Contact Us

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