Single-mode eight-core fiber optic cable Huijue



Overview

Huijue 8-core single-mode fiber optic modelFiber optic cable, 2~12 fibers, jelly filled and fiber contained central loose tube, copolymer coated steel tape.

Key Takeaways

Huijue 8-core single-mode fiber optic cables are designed for high-speed, long-distance data transmission with robust outdoor and aerial deployment capabilities.

Overview

An 8-core single-mode fiber optic cable is engineered to carry multiple optical signals over long distances with minimal signal loss, making it ideal for telecommunications, enterprise networks, and data centers. Huijue's cables are typically designed for outdoor, aerial, and self-supporting installations, featuring a figure-8 structure that integrates both the fiber core and supporting strength members.

Construction and Features

Fiber Arrangement: Single-mode fibers are housed in loose tubes made of high-modulus plastic, allowing fibers to move freely and reducing stress from temperature changes or mechanical strain. Strength Members: Stranded steel wires or metallic central members provide tensile strength and self-supporting capability, enabling aerial installation without additional support. Protective Layers: The cable includes PE outer jackets, corrugated steel tape armor, and water-blocking materials to resist crushing, rodent damage, moisture, and chemical exposure.

© 2026 EXF OPTICAL NETWORKS - All rights reserved

Environmental Resistance: Designed for UV exposure, temperature fluctuations, and wet conditions, ensuring long-term reliability in outdoor environments. Cable Life: Typical service life is around 25 years, supported by high-quality materials and manufacturing standards.

Applications

Aerial Installations: Self-supporting figure-8 design allows direct suspension between poles without additional hardware. Underground or Duct Deployment: Loose tube and armored designs protect fibers from soil pressure and mechanical stress.

Carrier-

Grade Networks: Suitable for high-capacity backbone networks, including GPON, EPON, and long-haul telecom links. Standards and ComplianceHuijue's fiber optic cables meet ISO9001, ISO14001, OHSAS18001, and comply with CE, RoHS, TLC, and UL standards. Production uses advanced equipment imported from the US, Japan, and Europe, ensuring high-quality performance with a 99.

9999% pass rate. SummaryHuijue's 8-core single-mode fiber optic cables combine high-speed data transmission, mechanical robustness, and environmental protection, making them suitable for carrier-grade outdoor, aerial, and underground applications. Their figure-8 self-supporting design simplifies installation while maintaining long-term reliability and compliance with international standards.

Article Content

Huijue 8-core single-mode fiber optic model

Fiber optic cable, 2~12 fibers, jelly filled and fiber contained central loose tube, copolymer coated steel tape, two parallel steel wires 1.2mm, PE outer sheath, G652D SM fiber, detailed specification on your ...

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 .

8 core singlemode fiber cable

Order around $0.01 per unit of 8 core singlemode fiber cable, ideal for wholesale purchases. Available in large volumes, start your bulk order from just 1 piece. Suitable for indoor

Huijue Optical Cable Single Mode Fiber Wholesale Suppliers ...

© 2026 EXF OPTICAL NETWORKS - All rights reserved

Buy premium Huijue Optical Cable Single Mode Fiber in bulk from verified wholesale suppliers and manufacturers. Best prices, bulk discounts, trusted deals at go4WorldBusiness .

Loose Tube Outdoor Cable OS2, 8-Core, SC/UPC

High-quality SC-SC single-mode (mono-mode) Loose Tube installation outdoor cable for laying in a tube above- or underground. Black multi-purpose cable with

huijue-4-port-10-gigabit-optical-switch Manufacturer/Producer

All suppliers for huijue-4-port-10-gigabit-optical-switch Manufacturer/Producer Find wholesalers and contact them directly B2B martketplace Find companies now!

huijue-fiber-optic-sensor-price Manufacturer/Producer

19 suppliers for huijue-fiber-optic-sensor-price Manufacturer/Producer Find wholesalers and contact them directly B2B martketplace Find companies now!

Single Mode Fiber: Types and Applications

Single mode fiber (SMF) is a type of fiber optic cable that only allows one light mode to transmit at a time. Generally, single mode cable has a narrow core diameter of 8 to 10µm

asean-huijue-optical-cable-system

17 Companies and suppliers for asean-huijue-optical-cable-system Find wholesalers and contact them directly Leading B2B martketplace Find companies now!

2 Core Huijue Outdoor Aerial Duct Fiber Optical Drop Cable

2 Core Huijue Outdoor Aerial Duct Fiber Optical Drop Cable Gyxtw53 4b1 Single-multi Mode For Communication Networking - Buy Product on Alibaba

Single-mode optical fiber

In fiber optics, a quadruply clad fiber is a single-mode optical fiber that has four claddings. Each cladding has a refractive index lower than that of the core.

HES 8 Core Steel Armored Fiber Optic Cable SM 9/125µ Single Mode |

HES Brand Fiber Optic Cables HES brand fiber optic cables are designed with high performance and reliability, especially focusing on single mode fiber technology to meet long-distance transmission

huijue-optical-cable-approved Manufacturer/Producer

All suppliers for huijue-optical-cable-approved Manufacturer/Producer Find wholesalers and contact them directly B2B martketplace Find companies now!

© 2026 EXF OPTICAL NETWORKS - All rights reserved

Fiber Optic Cable Size Chart: Complete Guide

Fiber optic cable size chart with complete guide to core, cladding, and jacket dimensions, types, and specifications for networking and installation use.

Multimode vs Single Mode Fiber Optic Cables: A Complete Guide to

Learn the differences between multimode (OM1-OM5) and single mode (OS1-OS2) fiber optic cables—speed, distance, applications, and how to choose the right one for data centers and

The Ultimate Fiber Optic Cable Size Reference Chart

Choosing the Right Fiber Size for Your Application Selecting the correct fiber optic size for your specific application is crucial to ensuring optimal performance, durability, and scalability.

Wholesale Outdoor Unitube GYXTW 8 Core G652D Single-Mode Fiber Optic ...

Find verified Outdoor Unitube GYXTW 8 Core G652D Single-Mode Fiber Optic Underground Duct Cable suppliers and wholesalers with AI-powered sourcing. Access real-time supply chain data and learn

8 Core OM2 Multi-Mode Fiber Optic Cable

HES 8 Core Single Tube Steel Armored Fiber Optic Cable, OM2 50/125µ MultiMode. Ideal for high data traffic and large-scale projects.

Contact Us

Continue your research online:

Website: https://explosivefunctions.co.za
Technical inquiry: https://explosivefunctions.co.za/contact.html
EU project coordination: Parque das Nações, Lisbon, Portugal

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

© 2026 EXF OPTICAL NETWORKS - All rights reserved