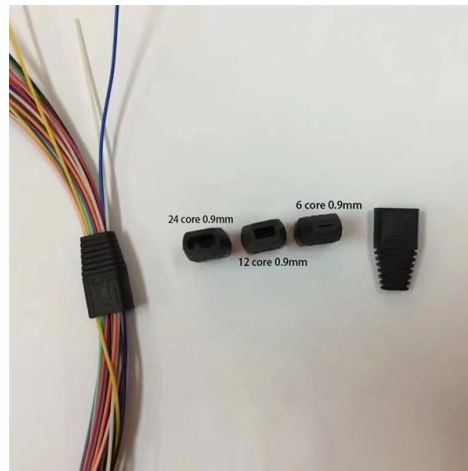


38-core optical cable



AI Overview

A 38-core optical cable is a fiber optic cable containing 38 individual fibers, designed for high-speed data transmission in telecommunications and network applications.

Overview A 38-core optical cable consists of 38 separate optical fibers, each capable of transmitting data using light signals. These cables are widely used in telecommunications, data centers, and industrial networks to provide high-capacity, reliable connectivity. They can support multiple communication protocols and are suitable for both short and long-distance data transmission.

Types and Construction

Multimode vs Single-mode: Many 38-core cables, such as the BLACKSTONE Aerial Cable, use multimode OM2 fibers (50/125 μm) for high-speed local area networks. Single-mode variants are also available for long-distance transmission.

Outdoor Aerial Cables: Figure-8 aerial designs include a steel messenger wire for tensile strength and a high-density polyethylene (HDPE) jacket for weather resistance. Some models include water-blocking gel or aluminum tape for moisture protection.

Optical Ground Wire (OPGW): Some 38-core cables are integrated into OPGW designs, combining electrical grounding with fiber optic communication, suitable for overhead transmission lines.

Key Features

High Data Capacity: Supports simultaneous transmission across 38 fibers, reducing the need for multiple cables.

Durability: Outdoor cables often include armoring, UV-resistant jackets, and tensile strength elements to withstand environmental stress.

Flexibility: Can be installed in aerial, duct, or direct-buried applications depending on design.

Color-coded Fibers: Individual fibers are color-coded for easy identification and splicing.

Applications

Telecommunications Networks: Backbone connections between network nodes.

Data Centers: High-density cabling for server interconnects.

Industrial and Utility Networks: OPGW variants allow simultaneous power line protection and data transmission.

Campus or Metropolitan Area Networks: Multimode 38-core cables pro...

Article Content

40/100G MTP/MPO Multimode Base-8 Trunk Cable,

The N858B-38M-3X8MG is a premium multimode fiber optic cable that supports 400 Gb Ethernet speeds for transmitting data and voice signals over short distances.

ALTOS® Loose Tube, Gel-Free, Double-Jacket, Single

ALTOS® gel-free, double-jacket, single-armored cables are rugged, armored cables designed for direct-buried installation while suitable for duct and aerial (lashed)

38 Core Cable

Shop high-quality 38 core cables for reliable communication and advanced applications. Enjoy durable, efficient, and versatile solutions for your needs.

HUBER+SUHNER and Microsoft Azure announce new

Fiber optic manufacturer HUBER+SUHNER has strengthened its partnership with Microsoft Azure Fiber to accelerate the rollout of its Hollow Core

12-Core & 24-Core ADSS Cables to Dominican Republic

Unlike traditional cables, ADSS eliminates electromagnetic interference (EMI) and lightning risks, providing superior reliability for long-distance data transmission. The supplied 12-core

Fiber Optic Cables – Mouser

Mouser offers inventory, pricing, & datasheets for Fiber Optic Cables.

38 core fiber optic cable

Discover premium quality 38 core fiber optic cable designed to enhance connectivity and performance. Ideal for business buyers seeking reliable solutions.

12 Core Single Mode Fiber Optic Cable

HES Brand Fiber Optic Cables HES brand fiber optic cables are designed with high performance and reliability, especially focusing on single mode fiber technology

Single-Mode Optical Fiber

The terms single-mode optical fiber, single-mode fiber, and mono-mode fiber are all other names for single-mode fiber. Modes of light can only

Fiber Optic Cable Types: Single-Mode, Multimode, and

A fiber optic cable (frequently shortened to “fiber cable”) is a specialized transmission medium crafted to carry data as light pulses through

China Top 10 Fiber Optic Cable Manufacturers in 2025

The fiber optic cable industry in China has solidified its position as a global powerhouse, driving the expansion of high-speed networks, 5G

24 Core Single Mode Fiber Optic Cable Single Tube

HES Brand Fiber Optic Cables HES brand fiber optic cables are designed with high performance and reliability, especially focusing on single mode fiber technology

The Ultimate Fiber Optic Cable Size Reference Chart

How to Use This Chart Understanding fiber optic measurements doesn't have to be overwhelming. Our comprehensive chart simplifies the

Fiber Cable

Fiber optic cable. indoors, Outdoor and Almond 8core, 12, 24 and 48 Core Single Mode and Multi modes cables available. Prices varies based on model of the cables

24 Cores ADSS Fiber Optic Cable Price & Datasheet

24 Cores ADSS Fiber Optic Cable ADSS optic cable adopts loose tube layer stranded structure, and the loose tube is filled with water blocking compound.

Draka FireTuf Fire Resistant Fibre Optic Cable

8, 12 & 24 Core Fibre Optic Cable OM1, OM3, OM4 multimode and OS2 singlemode, Loose Tube, Internal/External LSZH. Manufactured by Draka Using

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24 Core and 48 Core Fiber Optic Cable

24 Core and 48 Core Fiber Optic Cable Fiber optic cable is a cable containing one or multiple optical fibers that are used to transmit the signal. The optical fiber

Fiber Optic Cable Types: A Complete Guide

The plethora of fiber optic cable types can seem overwhelming, but choosing the right cable for the job is important. Read on to learn what fiber optic

Fiber Optic Cables

CommScope designs and manufactures a comprehensive line of fiber optic cables—from outside plant to indoor/outdoor and fire-rated indoor fiber cables.

13,824-Core Fiber Optic Cable: Furukawa Electric

Furukawa Electric's Lightera begins mass production of the world's highest-class 13,824-core ultra-high-density fiber optic cable. Learn how this

Japanese firm develops optical fiber with 4x traffic

Nippon Telegraph and Telephone (NTT), a Japanese telecommunications giant, just announced the development of a four-core

Infrastone : BLACK-STONE NETWORK : Blackstone Installation cables ...

Enhance your network with BLACKSTONE Aerial Cable Figure 8 Fiber Optic Cable: 38 Cores, OM2, 11.6 mm design, PE, Black finish for reliable performance.

24 Core ADSS Optical Fiber Cable

Explore detailed specifications and price-influencing factors of 24 core ADSS optical fiber cables. Learn how span length, fiber type, sheath, and installation

12/24/48 Core ADSS Optical Fiber Cable

Explore everything about ADSS fiber optic cables including the full form, core types (12/24/48 core), major brands, specifications, span length, sheath materials, and installation accessories.

Fiber Optic Cable Types Explained

Our comprehensive guide to types of fiber optic cables. Learn all about the differences between single mode and multimode cables, as well as the various

CentraCore OPGW Cable | Central Tube Optical

AFL's CentraCore OPGW (Optical Ground Wire) features a central tube design that protects fibers while offering high tensile strength and efficient installation. Ideal

48 Core Fiber Optic Cable GYTY53 Outdoor Armored

Description of 48 Core GYTY53 fiber optic cable Fiber optic cable GYTY53, 2~144 fibers, central strength member (steel), jelly filled, fiber contained loose tube and

Contact Us

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