

8-core ASS fiber optic cable specifications



Article Overview

An 8-core ASS (All-Dielectric Self-Supporting) fiber optic cable typically features eight optical fibers in a loose tube, with a central strength member, water-blocking materials, and a figure-8 PE sheath for aerial self-supporting installation.

Cable Construction

- **Fiber Count:** 8 individual optical fibers, either single-mode or multimode, each capable of high-speed data transmission up to 100 Gbps depending on transceiver and mode .
- **Loose Tube:** Fibers are housed in high-modulus plastic loose tubes, which are stranded around a metallic or dielectric central strength member to form a compact core .
- **Strength Members:** Stranded steel wires or aramid yarn provide tensile strength and self-supporting capability for aerial deployment .
- **Water-Blocking:** Gel or water-swellable materials fill interstices to prevent moisture ingress .
- **Outer Sheath:** Polyethylene (PE) sheath forms a figure-8 structure, combining the cable core and supporting strand for aerial installation .

Mechanical and Environmental Properties

- **Tensile Strength:** Central steel or dielectric strength member ensures the cable can support its own weight over spans without sagging .
- **Crush Resistance:** Corrugated steel tape (CST) or armored layers provide protection against mechanical impact and rodent damage

Article Content

Mar 01, 2026

Optical Fiber Product Information Sheets

An all inclusive list of the various optical fiber specification sheets.

Apr 13, 2026

Enbeam OM5 Multimode Fibre Optic Cable Loose Tube 8 Core

Enbeam OM5 Multimode loose tube optical fibre cable has been designed specifically for internal and external applications, and

Oct 05, 2025

How to Choose the Best 8 Core Fiber Optic Cable for Your Network

Discover key factors when buying an 8 core fiber optic cable: types, specs, pricing, and what to look for to ensure

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Product Catalogue Fibre Optic Cable

4 to 24 cores internal breakout LSZH jacketed cable constructed by 2mm simplex cables with their own jacket and aramid yarn

May 17, 2026

8 Core Fiber Optic Cable Guide for Project Expansion

Need 8 core fiber optic cable for a B2B project or repeat supply? Send application, key

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8 Core Optical Fiber Cable_Specification

Specification LC to LC or SC to SC Single-mode /multimode for option OM3 for multimode Optical Fiber 8 Cores Inside Compatible

Jul 13, 2026

best 8 core fiber optic cable armored om4 multimode tmt

TMT Global 8 core fiber optic cable armored multimode om4 indoor outdoor TMT GLOBAL provides high

Feb 02, 2026

PLDT Figure 8 Fiber Optic Cable Specs

This document outlines the specifications and requirements for fiber optic cables to be used by PLDT. It includes details on: 1. The

Jun 11, 2026

Fibre optic cable selection guide

This fibre optic cable selection guide explains the differences between the different types and the commonly available construction

Feb 08, 2026

Multimode Optical Fiber Selection & Specification

Such fiber types are deemed “Bend-Insensitive” and should be compatible with current optical fibers, equipment, practices and

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HES 8 Core Steel Armored Fiber Optic Cable OM3 50/125µ MultiMode |

This HES branded fiber optic cable series, enhanced with OM3 MultiMode fiber technology, offers a wide range of applications with

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Opti-Core Fibre Optic Indoor-Outdoor Armoured Cable 48 to 144

Opti-Core™ Fibre Optic Indoor-Outdoor Armoured Cable 48 to 144-Fibres, EuroClass Cca and B2ca for EMEA A T A S H E E T

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Enbeam OM4 Multimode Armoured CST Fibre Optic Cable Loose

These compact, lightweight cables are extremely rugged, provide rodent resistance and are quick and easy to install. The cables are

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Multi-mode optical fiber

Multi-mode optical fiber is a type of optical fiber mostly used for communication over short distances, such as within a building or on a

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Fibre Optic Cable Catalogue

Fibre Types & Wavelengths Briticom® cables are available in many specifications, for both indoor and outdoor use. We have a wide

Mar 30, 2026

OPTICAL FIBER CABLE SPECIFICATION (ADSS-Span= 100m)

1. General 1.1 The specification covers the construction and properties of single mode optical fiber cable.

Sep 12, 2025

8 Core Optical Fiber Cable_Specification

Specifications are correct at time of printing and subject to change or alteration without notice.

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Premium-Line Figure 8 Fiber Optic Cable, 9/125um G652D

The fibers, 250µm, are positioned in a loose tube made of a high modulus plastic. The tubes are filled with

Sep 28, 2025

Fiber Optic Cables | Corning

With 2 billion kilometers of fiber optic cables installed around the globe, Corning continues to lead the

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ADSS Fiber Optic Cable Specifications Explained | Structure ...

Explore the complete specifications of ADSS fiber optic cables, including structure details, mechanical performance,

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Specifications For Fiber Optic Networks

Specifications For Legacy Fiber Optic Networks A listing of many fiber optic LANs and links available in the last 30 years, with basic

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Opti-Core Fibre Optic Indoor-Outdoor 4 Fibre Cable SPECIFICATION

Opti-Core™ Fibre Optic Indoor-Outdoor 24 Fibre Cable Europe, Middle East, and Africa

Aug 21, 2025

best 8 core fiber optic cable armored om4 multimode tmt

TMT GLOBAL provides high-strength 8 core fiber optic cable armored om4 multimode indoor outdoor

Oct 12, 2025

8-Core Indoor Multimode Fiber Optic Cable GJFJV-1000m

1.Adopted to indoor distribution. 2.As pigtail of communication equipment. 3 itable for communication

Mar 25, 2026

The FOA Reference For Fiber Optics

The core of step index multimode fiber is made completely of one type of optical material and the cladding

May 08, 2026

Fiber Optic Cable Types - Multimode and Single Mode

Single Mode cable has a much smaller core (8-9um) than multimode cable and uses a single path (mode) to carry the light. The main

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Fiber Optic Cable Catalog

Since 1986, Proterial Cable America has been developing technologically advanced copper and fiber optic communication cables.

Contact Us

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