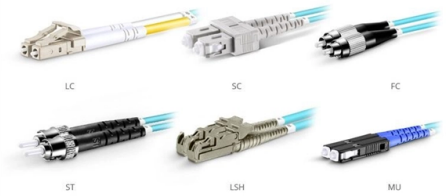
ZITHA TECH SPECIALTY CABLES (Pty) Ltd

Multimode Fiber Optic Cable Manufacturers for Smart Buildings



OM3 Fiber Patch Cable Family

Overview

Single & Multi-Mode Optical Fiber Solutions | PrysmianFind out how Prysmian can support your CPF, BEAD, and Middle Mile funding with fiber and fiber optic.

Key Takeaways

Top multimode fiber optic cable manufacturers for smart buildings include Corning, Windy City Wire, Rosenberger OSI, AFL, and OFS Optics, offering plenum-rated, high-density, and laser-optimized solutions.Leading Manufacturers and Products



© 2026 ZITHA TECH SPECIALTY CABLES (Pty) Ltd - All rights reserved

1. Corning Inc. Corning is a global leader in fiber optics, offering ClearCurve multimode fibers (OM2, OM3, OM4, OM5) that are laser-optimized and bend-insensitive, ideal for high data rate, low-latency transmission in smart buildings and data centers. Their fibers support Terabit BiDi and 100G/lane transceiver technologies, with compliance to IEC 60793-2-10 standards. ClearCurve fibers are suitable for indoor cabling up to 100 meters and feature ColorPro identification for easier installation and management . 2. Windy City Wire (SmartFIBER) Windy City Wire's SmartFIBER portfolio provides plenum-rated, low-voltage multimode cables for commercial and industrial environments. Options include OM1 62.5/125 and OM3 50/125 Ultra-Fox fibers, supporting short-to-mid distance links for AV, automation, security, and network backbones. Their SmartWire Glide Technology® reduces pulling friction, facilitating longer runs with fewer re-pulls, making installation efficient and code-compliant . 3. Rosenberger OSI Rosenberger OSI offers structured multimode fiber cabling systems with pre-assembled plug-and-play components. Their PreCONNECT PURE and BASIC systems provide high-quality end-face geometry, low insertion loss, and excellent return loss, ensuring reliable performance in smart building networks. They focus on ease of handling, extendibility, and long-term stability, suitable for high-density indoor deployments . 4. AFL (Advanced Fiber Logistics) AFL manufactures multimode fiber cables for telecommunications, industrial, and data center applications, with a focus on quality, environmental stewardship, and installation reliability. Their solutions include comprehensive testing and inspection equipment to minimize network failures caused by connector contamination or improper termination . 5. OFS Optics (Furukawa Electric) OFS Optics specializes in multimode fiber cables for enterprise, medical, and industrial applications, with USA-based manufacturing supporting domestic supply chain requirements. Their products are suitable for high-speed data transmission and smart building integration, offering flexibility for customized fiber solutions .

Key Considerations for Smart Buildings
• Fiber Type: OM3/OM4/OM5 multimode fibers are cost-effective for runs under 500 meters, ideal for building backbones and inter-floor connections.

• Plenum Rating: Required for indoor air-handling spaces to meet fire safety codes.

• Installation Ease: Pre-terminated or low-friction cables reduce labor and risk of damage.

• Standards Compliance: Ensure IEC, TIA/EIA, and local building codes are met.

• Future-Proofing: Laser-optimized fibers support emerging high-speed applications like 400G/800G Ethernet. These manufacturers provide reliable, high-performance multimode fiber solutions that meet the demands of modern smart buildings, supporting network, AV, security, and automation systems while ensuring compliance and ease of installation.

© 2026 ZITHA TECH SPECIALTY CABLES (Pty) Ltd - All rights reserved

Article Content

Single & Multi-Mode Optical Fiber Solutions | Prysmian

Find out how Prysmian can support your CPF, BEAD, and Middle Mile funding with fiber and fiber optic

10 Best Fiber Optic Manufacturers for 2026

Discover the best fiber optic manufacturers globally, offering cutting-edge multimode and single mode fiber solutions.

Multimode Optical Fiber and Cables – Lightera

Lightera with its AT&T Bell Labs heritage has been at the forefront of the multimode fiber industry, playing a key role in the

Fiber Optic Cable Assemblies & Custom Fiber Solutions | iFiber Optix

Founded in 2000, iFiber Optix designs and manufactures high-quality fiber optic cable assemblies with a focus on performance, fast

SmartFIBER Multimode 50/125

Whether you are building a new backbone, expanding campus connectivity, or standardizing across multiple facilities, SmartFIBER

Multimode Optical Fiber

OFS multimode fibers offer the most economical solutions and widest performance ranges available for all types of networks. These

Cabled Optical Fiber for High-Speed Networks | Prysmian

Prysmian''s cabled optical fiber portfolio includes both single-mode and multi-mode fiber options, designed

2024 Optical Fiber Reference Guide

Trusted by leading entities worldwide, customized Fiber Lab solutions are built to your specifications and include high-precision

A Guide to Multimode Fiber Types (OM1-OM5) –

Multimode fiber optical cable in enterprise LAN and data centers Multimode fiber is a kind of

About OCC

© 2026 ZITHA TECH SPECIALTY CABLES (Pty) Ltd - All rights reserved

We manufacture and design top-tier fiber optic and copper cabling and connectivity products to support a

FS

FS

Fiber-optic communication

An optical fiber patching cabinet. The yellow cables are single-mode fibers; the orange and blue cables are multi-mode fibers:

10 Best Fiber Optic Manufacturers & Suppliers for 2026

The top 10 suppliers and manufacturers of optical cables in 2026. offering high-speed connectivity, durable builds, and

Single & Multi-Mode Optical Fiber Solutions | Prysmian

Multi-Mode Fibers Prysmian provides a complete selection of multi-mode fiber cabling solutions built for

Armored Fiber Optic Cables

The armored fiber optic cables have core diameter ranging from 62.5 microns, 50 microns, or 8.3 microns and 125 microns for the

Custom MTP/MPO Fiber Optic Cables, Trunks, Fanouts & Cassettes

Shop custom MTP/MPO fiber optic trunk cables, fanouts, cassettes, and assemblies for indoor, outdoor, armored, plenum,

Fiber Optic Cable

Belden''s extensive line of indoor and outdoor cable products is offered in tight buffer and loose tube

Optical Fibre | Prysmian

Our range of single-mode, multimode and specialty fibres are designed for every purpose.

109 Fiber Optic Cable Manufacturers in 2026

This section provides an overview for fiber optic cables as well as their applications and principles. Also, please take a look at the list

Single-mode vs. Multimode Fiber: The Real Differences

Before you decide for sure that fiber is the right way to go for your project, there''s another decision to make: Do you

© 2026 ZITHA TECH SPECIALTY CABLES (Pty) Ltd - All rights reserved

Home

Optical Cable Corporation Networks that Mean Business High-performance networks are essential to business, including

How Smarter Network Infrastructure Is Powering the Next Generation

What is Optical LAN? This modern network, built on fiber optics, is becoming the preferred infrastructure for smart

Fiber Optic Cable Types – Multimode and Single Mode

The center of the fiber, or the Core, plays a big role in the quality and distance the signal

Fiber Optic Cables for Network & Telecom Projects | FTTH

Discover ETK Kablo''s fiber optic cables for FTTH, telecom, and data networks. Built for high-speed transmission, structured cabling,

Explore Insights, Blogs & Updates | HFCL

Discover HFCL''s latest blogs and insights on optical fiber technology, 5G, sustainable innovations, and broadband trends. Stay

Single-Mode vs Multimode Fiber: Which Do You Need?

Complete comparison of single-mode and multimode fiber optic cable. Core diameter, distance limits, bandwidth, cost, color coding,

Fiber Optic Cable Types for Commercial Buildings (Updated for 2026)

Fiber optic cable types: quick decision guide (commercial) (Here''s a practical overview of fiber optic cable types we

SmartFIBER Multimode 50/125

SmartFIBER Multimode 50/125 Summary: SmartFIBER Multimode 50/125 SmartFIBER Multimode 50/125 (OM3) — Built for

A Guide to Multimode Fiber Types (OM1-OM5) –

Multimode fiber optical cable in enterprise LAN and data centers Multimode fiber is a kind of

About OCC

We manufacture and design top-tier fiber optic and copper cabling and connectivity products to support a

FS

© 2026 ZITHA TECH SPECIALTY CABLES (Pty) Ltd - All rights reserved

FS

Fiber-optic communication

An optical fiber patching cabinet. The yellow cables are single-mode fibers; the orange and blue cables are multi-mode fibers:

10 Best Fiber Optic Manufacturers & Suppliers for 2026

The top 10 suppliers and manufacturers of optical cables in 2026. offering high-speed connectivity, durable builds, and

Single & Multi-Mode Optical Fiber Solutions | Prysmian

Multi-Mode Fibers Prysmian provides a complete selection of multi-mode fiber cabling solutions built for

Lightera Optical Fiber & Connectivity Solutions

Industrial Networks Rugged, durable, and reliable optical fiber systems for digital manufacturing, automation, energy monitoring and

Designing a Future-Proof Fiber Backbone for Multi

In an era dominated by cloud computing, smart building technologies, 4K+ video

Cabled Optical Fiber for High-Speed Networks | Prysmian

Prysmian provides a complete selection of multi-mode fiber cabling solutions built for short- to mid-range

Single Mode vs Multimode Fiber: Pros, Cons, & Applications

It also suits audio/video systems that move high-bandwidth video, industrial automation that needs rugged short connections

Armored Fiber Optic Cables

The armored fiber optic cables have core diameter ranging from 62.5 microns, 50 microns, or 8.3 microns and 125 microns for the

Custom MTP/MPO Fiber Optic Cables, Trunks, Fanouts & Cassettes

Shop custom MTP/MPO fiber optic trunk cables, fanouts, cassettes, and assemblies for indoor, outdoor, armored, plenum,

Fiber Optic Cable

Belden''s extensive line of indoor and outdoor cable products is offered in tight buffer and loose tube designs. Learn more about each

© 2026 ZITHA TECH SPECIALTY CABLES (Pty) Ltd - All rights reserved

Optical Fibre | Prysmian

Our range of single-mode, multimode and specialty fibres are designed for every purpose. With centres of excellence

Single & Multi-Mode Optical Fiber Solutions | Prysmian

Find out how Prysmian can support your CPF, BEAD, and Middle Mile funding with fiber and fiber optic

10 Best Fiber Optic Manufacturers for 2026

Discover the best fiber optic manufacturers globally, offering cutting-edge multimode and single mode fiber solutions.

Multimode Optical Fiber and Cables – Lightera

Lightera with its AT&T Bell Labs heritage has been at the forefront of the multimode fiber industry, playing a key role in the

Fiber Optic Cable Assemblies & Custom Fiber Solutions | iFiber Optix

Founded in 2000, iFiber Optix designs and manufactures high-quality fiber optic cable assemblies with a focus on performance, fast

SmartFIBER Multimode 50/125

Whether you are building a new backbone, expanding campus connectivity, or standardizing across multiple facilities, SmartFIBER

Multimode Optical Fiber

OFS multimode fibers offer the most economical solutions and widest performance ranges available for all types of networks. These

Cabled Optical Fiber for High-Speed Networks | Prysmian

Prysmian''s cabled optical fiber portfolio includes both single-mode and multi-mode fiber options, designed

2024 Optical Fiber Reference Guide

Trusted by leading entities worldwide, customized Fiber Lab solutions are built to your specifications and include high-precision

Fiber Optic Cables

We offer specialized fiber optic cable assemblies in single mode or multimode and simplex or duplex optic cables featuring ST, SC,

Top 10 Fiber Optic Cable Suppliers for Data Center & Telecom in 2026:

© 2026 ZITHA TECH SPECIALTY CABLES (Pty) Ltd - All rights reserved

This guide provides a data-driven comparison of Corning, Prysmian, AMPCOM, and other leading fiber optic cable

Single & Multi-Mode Optical Fiber Solutions | Prysmian

Find out how Prysmian can support your CPF, BEAD, and Middle Mile funding with fiber and fiber optic

10 Best Fiber Optic Manufacturers for 2026

Discover the best fiber optic manufacturers globally, offering cutting-edge multimode and single mode fiber solutions.

Multimode Optical Fiber and Cables – Lightera

Lightera with its AT&T Bell Labs heritage has been at the forefront of the multimode fiber industry, playing a key role in the

Fiber Optic Cable Assemblies & Custom Fiber Solutions | iFiber Optix

Founded in 2000, iFiber Optix designs and manufactures high-quality fiber optic cable assemblies with a focus on performance, fast

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

Contact Us

Continue your research online:

Website: https://zithatech.co.za
Technical inquiry: https://zithatech.co.za/contact.html

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

© 2026 ZITHA TECH SPECIALTY CABLES (Pty) Ltd - All rights reserved