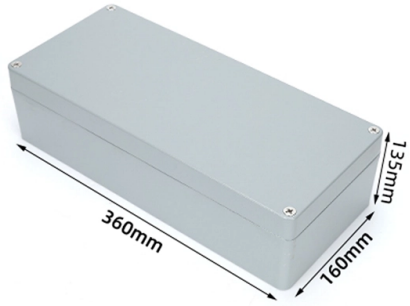
ZITHA TECH SPECIALTY CABLES (Pty) Ltd

V-type optical cable models



Overview

Multimode Fiber Types: OM1 vs OM2 vs OM3 vs OM4 vs OM5 Identified by ISO 11801 standard, multimode fiber optic cables can be classified into OM1 fiber, OM2.

Key Takeaways

V-type optical cables are fiber optic cables with a polyvinyl chloride (PVC) outer sheath, designed for general protection and indoor/outdoor applications.Overview of V-Type Optical Cables

In fiber optic cable coding, the letter "V" indicates a polyvinyl chloride (PVC) protective sheath on the cable . This sheath provides mechanical protection, environmental resistance, and flexibility, making V-type cables suitable for a variety of installations, including indoor, outdoor, and light industrial environments. The PVC sheath is cost-effective and widely used for standard communication networks.

Structure and Classification

V-type optical cables follow a standardized coding system that includes several components :

• Classification Code: Defines the general type of cable, e.g., GY (outdoor communication), GR (soft indoor cable), GJ (office/room cable).

• Reinforcement Member: Indicates the material used for tensile strength:
• No symbol: metal reinforcement

• F: non-metallic

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

• G: metal heavy-duty

• H: non-metallic heavy-duty

• Derived Feature Code: Describes the cable structure, such as D (fiber ribbon), B (flat), T (filled), Z (self-supporting).

• Protective Layer Code: "V" specifies a PVC sheath, while other options include Y (polyethylene), U (polyurethane), L (aluminum), and S (steel-aluminum-polyethylene composite).

• Outer Sheath Code: Further defines the outer layer material and armor, if any.

• Fiber Type and Count: Indicates the number of fibers and type (singlemode D, multimode J/T/Z, or plastic S/X). For example, a cable coded GYGZV03 would be an outdoor optical cable (GY) with metal heavy reinforcement (G), self-supporting structure (Z), PVC sheath (V), and no additional armor (03) .

Applications

V-type optical cables are commonly used in:

• Indoor and outdoor communication networks

• Short to medium distance interconnections

• Environments requiring moderate mechanical protection

• Telecommunication rooms, office buildings, and campus networks They are flexible, easy to install, and resistant to environmental factors, making them a versatile choice for general-purpose fiber optic installations .

Manufacturer Examples

• Vertical Cable offers V-type optical cables as part of their singlemode and multimode fiber product lines, stocked for quick deployment across the USA .

• Optronics Plus provides V-type cables in various fiber counts and jacket options, suitable for pigtails, patch panels, and wall boxes .

Key Considerations

When selecting a V-type optical cable, consider:

• Fiber type: Singlemode (G.652.D) for long-distance, multimode (OM1/OM2/OM3/OM4) for shorter distances

• Number of fibers: Depending on network requirements

• Installation environment: Indoor, outdoor, or mixed

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

• Mechanical and environmental protection: PVC sheath provides moderate protection; additional armor may be needed for harsh conditions V-type optical cables offer a balance of durability, flexibility, and cost-effectiveness, making them suitable for a wide range of communication applications.

Article Content

Multimode Fiber Types: OM1 vs OM2 vs OM3 vs OM4 vs OM5

Identified by ISO 11801 standard, multimode fiber optic cables can be classified into OM1 fiber, OM2 fiber, OM3 fiber,

OM1 vs OM2 vs OM3 vs OM4 vs OM5 Multimode Fiber Guide | EDGE

ISO/IEC 11801 defines the OM1, OM2, OM3, OM4, and OM5 types of multimode fiber. It also lists the key technical

Optical cable model meaning and optical cable

For communication engineers, they often come into contact with fiber optic cables. At this

Fiber Optic Cables | Cable Assemblies | DigiKey

Shop DigiKey''s large in-stock selection of Fiber Optic Cables. View inventory, pricing and order now for

Multimode Optical Fiber Selection & Specification

The small premium paid for a higher performance fiber type is worth the avoidance of having to re-cable later to support higher data

Products

IP68 Inline Coupler | 040-380s Series Inline Couplers, Optical Fiber IP68 Coupler Modules

OS1 vs OS2, OM3 vs OM4 vs OM5 – Fiber Optic Cable Differences

Discover the key differences between OS1 and OS2 singlemode fibers, and OM3, OM4, OM5 multimode cables. Learn

Optical Fiber Product Information Sheets

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

Active Optical Connectors

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

Panasonic''s V Series Active Optical Connectors feature integrated fiber cables with built-in Laser Diode and Photodiode for high

Fiber-optic communication

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

Fiber Optic Cable Types – Multimode and Single Mode

The Optical Core – a glass tube (core) propagates the light signals through the fiber cable. Glass is inherently reflective and is a

Fiber Optic Cable Types – Multimode and Single Mode

The Optical Core – a glass tube (core) propagates the light signals through the fiber cable. Glass is inherently reflective and is a

Fiber Optic Cable Types – Multimode and Single Mode

The Optical Core – a glass tube (core) propagates the light signals through the fiber cable.

Types of Fiber Optic Cables: Complete Classification

In today''s digital era, a reliable fiber optic cable network forms the backbone of

Fiber Optic Cable Selector

Compare models and choose the right option for you. In view of the increasing demand for bandwidth, low insertion loss, protection

Fibre optic cable selection guide

Fibre optic cable selection guide; explains the differences between the different fibre optic cable types and the commonly available

Search results

International Atomic Energy Agency (IAEA) Vienna International Centre, PO Box 100, A-1400 Vienna, Austria Telephone: (+431)

Fiber Optic Cable Types: Comprehensive Guide

Explore the different types of fiber optic cables and understand which type suits your specific

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

Fiber Optic Cable Types by Application

A comprehensive guide to all types of fiber optic cable and their applications: communications, medical,

Optical Cable Types: A Guide to Selecting the Right Cable

Think of optical cable types as the veins of our digital age, pulsing with light to keep data flowing smoothly. These

Marvell Technology, Inc. | Essential technology, done right

Designed for your current needs and future ambitions, Marvell delivers the data infrastructure technology

Fiber Optics and Types

Fiber optic cables are used for long-distance and high-performance data networking. They are capable of transmitting

Optical Fiber Product Information Sheets

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

Fiber Optic Cable Types: Single-Mode, Multimode, and Beyond – A ...

Discover fiber optic cable types, including single-mode (OS1, OS2) and multimode (OM1, OM2, OM3, OM4, OM5),

Asia''s Premier News Agency

ANI brings the latest news on Politics and Current Affairs in India & around the World, Sports, Health & Fitness, Entertainment, News.

Five common communication optical cable models

Five common communication optical cable models By fiberlife. Posted on August 27, 2024 With the continuous

Definition, Types and Applications of Optical Fiber

The total internal reflection of light is used in the fibre optic cable. Structure of optical fiber: The core, cladding, and

Fiber-optic communication

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

Fiber Optic Cable Types – Multimode and Single Mode

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

The Optical Core – a glass tube (core) propagates the light signals through the fiber cable. Glass is inherently reflective and is a

Fiber Optic Cable Types – Multimode and Single Mode

The Optical Core – a glass tube (core) propagates the light signals through the fiber cable. Glass is inherently reflective and is a

Fiber Optic Cable Types – Multimode and Single Mode

The Optical Core – a glass tube (core) propagates the light signals through the fiber cable.

Types of Fiber Optic Cables: Complete Classification

In today''s digital era, a reliable fiber optic cable network forms the backbone of

Fiber Optic Cable Selector

Compare models and choose the right option for you. In view of the increasing demand for bandwidth, low insertion loss, protection

Optical cable model meaning and optical cable specifications

For communication engineers, they often come into contact with fiber optic cables. At this time, we should pay attention

Fiber Optic Cable Buying Guide

Fiber Optic Cable Buying Guide Understand how to choose fiber optic cable by comparing single-mode vs. multimode, network

Optical Fiber Types

Nomenclature For Optical Fibers And Cross Reference To International Standards Singlemode Fiber Types There are several

Fibre optic cable selection guide

Fibre optic cable selection guide; explains the differences between the different fibre optic cable types and the commonly available

Search results

International Atomic Energy Agency (IAEA) Vienna International Centre, PO Box 100, A-1400 Vienna, Austria Telephone: (+431)

Fiber Optic Cable Types: Comprehensive Guide

Explore the different types of fiber optic cables and understand which type suits your specific needs for speed, distance,

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

Multimode Fiber Types: OM1 vs OM2 vs OM3 vs OM4 vs OM5

Identified by ISO 11801 standard, multimode fiber optic cables can be classified into OM1 fiber, OM2 fiber, OM3 fiber,

OM1 vs OM2 vs OM3 vs OM4 vs OM5 Multimode Fiber Guide | EDGE

ISO/IEC 11801 defines the OM1, OM2, OM3, OM4, and OM5 types of multimode fiber. It also lists the key technical

Optical cable model meaning and optical cable

For communication engineers, they often come into contact with fiber optic cables. At this

Fiber Optic Cables | Cable Assemblies | DigiKey

Shop DigiKey''s large in-stock selection of Fiber Optic Cables. View inventory, pricing and order now for

Multimode Optical Fiber Selection & Specification

The small premium paid for a higher performance fiber type is worth the avoidance of having to re-cable later to support higher data

Products

IP68 Inline Coupler | 040-380s Series Inline Couplers, Optical Fiber IP68 Coupler Modules

OS1 vs OS2, OM3 vs OM4 vs OM5 – Fiber Optic Cable Differences

Discover the key differences between OS1 and OS2 singlemode fibers, and OM3, OM4, OM5 multimode cables. Learn

Optical Fiber Product Information Sheets

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

Active Optical Connectors

Panasonic''s V Series Active Optical Connectors feature integrated fiber cables with built-in Laser Diode and Photodiode for high

Multimode Fiber Types: OM1 vs OM2 vs OM3 vs OM4 vs OM5

Identified by ISO 11801 standard, multimode fiber optic cables can be classified into OM1 fiber, OM2 fiber, OM3 fiber,

OM1 vs OM2 vs OM3 vs OM4 vs OM5 Multimode Fiber Guide | EDGE

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

ISO/IEC 11801 defines the OM1, OM2, OM3, OM4, and OM5 types of multimode fiber. It also lists the key technical

Optical cable model meaning and optical cable

For communication engineers, they often come into contact with fiber optic cables. At this

Fiber Optic Cables | Cable Assemblies | DigiKey

Shop DigiKey''s large in-stock selection of Fiber Optic Cables. View inventory, pricing and order now for

Multimode Optical Fiber Selection & Specification

The small premium paid for a higher performance fiber type is worth the avoidance of having to re-cable later to support higher data

Products

IP68 Inline Coupler | 040-380s Series Inline Couplers, Optical Fiber IP68 Coupler Modules

OS1 vs OS2, OM3 vs OM4 vs OM5 – Fiber Optic Cable Differences

Discover the key differences between OS1 and OS2 singlemode fibers, and OM3, OM4, OM5 multimode cables. Learn

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