

# Tunisian large-core optical fiber OS2



## Overview

Structure: Each fiber has a dual-layer protective coating (plastic + waterproof acrylate) with no gel filling. This “tightly buffered” design enhances flexibility and crush resistance. Performance: Speed: Supports up to 100Gbps over 10km (1310nm wavelength). The main difference between OM and OS type cables is in core diameter with OM multimode fibers has a much larger core size. OS2 Fiber Optic Cables are available at Mouser Electronics. As a professional fiber optic cable manufacturer and OEM supplier, Getek provides a. In the complex landscape of fiber optic infrastructure, selecting the right cable type—single-mode (OS1/OS2) or multimode (OM1/OM2/OM3/OM4/OM5)—can define a network's speed, reach, and cost-effectiveness. This guide dissects their technical nuances, evolution, and real-world applications. OS1 generally refers to a single mode fiber whose mechanical, optical, and environmental characteristics conform to the ITU-T G. However, the low water peak fibers classified as ITU-T G. The core of the fiber is made of a highly transparent material, which allows the light to travel through it with minimal attenuation or loss of signal.



## Article Content

Sep 25, 2025

### Fiber Optic Cable Types Explained

Learn all about the differences between single mode and multimode cables, as well as the various fiber wavelengths and standard core sizes used in fiber optics.

Feb 22, 2026

### Differences\_between\_OM1\_\_OM2\_\_OM3\_\_OM4\_ copy

OS2 fiber optic cable is designed for larger transmission distances in the range of 5,000 to 10,000 metres with similar transmission speed of 1 to 10 gigabit Ethernet.

Nov 11, 2025

### OS1 vs OS2 Fiber, What is the Difference?

Here's a simple guide on OS1 vs. OS2 differences. Click to learn more about their different attenuation, max distance, and data rate.

Aug 13, 2025

### Single Mode OS2 Fiber-Optic Cable | McMaster-Carr

Choose from our selection of single mode OS2 fiber-optic cable in a wide range of styles and sizes. Same and Next Day Delivery.

Oct 18, 2025

### Differences Between OS1, OS2, & OM1, OM2, OM3, OM4, And OM5

Single-mode (OS1/OS2) cables use an even smaller core, ideal for focused, long-haul transmission. Conversely, multimode (OM) fibers, due to their thicker cores, shine in local area ...

Sep 19, 2025

### OS1, OS2 vs OM1-OM5 Fiber Cables: Differences, Speeds, and ...

Explore the differences between OS1, OS2 (single-mode) and OM1, OM2, OM3, OM4, OM5 (multimode) fibers. Learn their speeds, distances, and ideal uses for data centers and telecom networks.

Jun 23, 2026

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

This article explains the core differences between OS1 and OS2 singlemode fibers, as well as OM3, OM4, and OM5 multimode fibers—to help OEM clients, installers, and data center ...

Jun 28, 2025

Differences between OS1, OS2, & OM1, OM2, OM3, OM4, and OM5

Multimode fiber optic cable has a larger core, typically 50 or 62.5 microns that enables multiple light modes to be propagated. Because of this, more data can pass through the multimode ...

Sep 11, 2025

Infinium Core LC to LC Duplex Patch Cord 2mm OS2 Plenum Yellow, ...

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