ZORA indoor 10 Gigabit OM2-150 Multimode optical cable

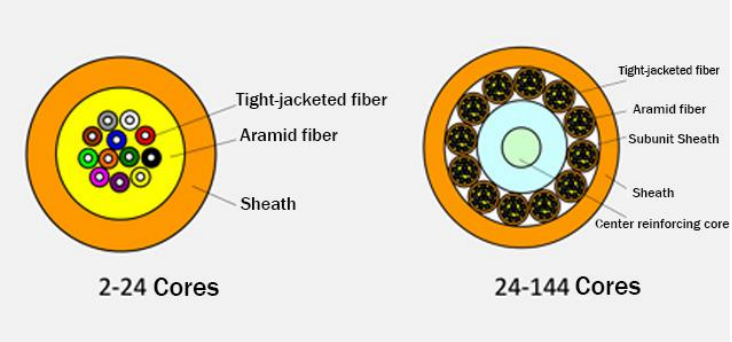
Indoor 10 Gigabit OM2-150 Multimode optical cable Overview

Indoor 10 Gigabit OM2-150 Multimode optical cable" refers to a specific type of fiber optic cable designed for indoor use, capable of supporting 10 Gigabit Ethernet speeds over a certain distance, typically using OM2 multimode fiber specifications.

ZORA brand fiber can meet the highest performance requirements of data communication, voice and video network requirements, ZORA indoor fiber is suitable for any indoor application. The 900M compact buffer protective layer is designed to withstand frequent twists and complex wiring, both of which are typical in indoor environments.

Multimode fiber has a larger core (50 µm or 62.5 µm) compared to single-mode fiber (9 µm), allowing multiple light modes to propagate. This makes it suitable for shorter distances (e.g., within buildings or

campuses) and typically more cost-effective than single-mode fiber for such applications.



ZORA brand Indoor OS2 Single Mode Cable is suitable for backbone and horizontal applications and can be directly connected to connectors, thus saving installation time and reducing connection costs.

Indoor 10 Gigabit OM2-150 Multimode optical cable" would typically be a duplex (two-fiber) cable with connectors (e.g., SC-SC, LC-LC) on both ends, featuring an orange jacket (standard for OM2). It’ s designed for indoor networking, such as connecting switches, routers, or servers in a local area network (LAN)

Indoor 10 Gigabit OM2-150 Multimode optical cable" is a 50/125 µm multimode fiber optic cable, likely 150 meters long, designed for indoor environments. While OM2 supports 10 Gbps up to 82 meters, the 150-meter length implies it’ s either intended for 1 Gbps (fully supported) or requires specific hardware for 10 Gbps. For guaranteed 10 Gbps over 150 meters

indoors, OM4 would be a better choice. If you have a specific product in mind, its documentation would clarify the intended use!

Features

- Number of fiber cores: 4 to 24
- Extremely flexible compact buffer protective layer design
- ATM, FDDI, Fiber Channel performance guarantee
- As a reinforcement material, aramid fiber has excellent tensile strengt
- Anti-corrosion, waterproof, anti-ultraviolet radiation, has the advantages of environmental protection

Conform to standards

- Between buildings
- Backbone network
- Drop ceiling
- 10Gbps 40 / 100Gbps Ethernet
- 550MHz broadband video
- Storage Local Area Network (SAN), data center
- Suitable for any indoor wiring needs

Applications

- ANSI/TIA 568-2.D
- ISO/IEC11801 / CENELEC EN 50173
- IEC60794-1 / IEC60332-3C

Ordering information

Product number	Product name	Packing specification
ZRC51SM-4	ZORA 4-core indoor OS2 fiber optic cable	2 km/roll
ZRC51SM-6	ZORA 6-core indoor OS2 fiber optic cable	2 km/roll
ZRC51SM-8	ZORA 8-core indoor OS2 fiber optic cable	2 km/roll
ZRC51SM-12	ZORA 12-core indoor OS2 fiber optic cable	2 km/roll
ZRC51SM-24	ZORA 24-core indoor OS2 fiber optic cable	2 km/roll

Color Configuration

Fiber color - First set of 12 cores

Class Number	1	2	3	4	5	6
Color	Blue	Orange	Green	Brown	Gray	White
Class Number	7	8	9	10	11	12
Color	Red	Black	Yellow	Purple	Pink	Blue

Technical specification

Structure

Outer skin and cushioned protective layer

Skin material	Low smoke non-toxic
Cable reinforcement material	Aramid fibre
Main buffer layer | compact buffer	250 microns ± 5 microns | 900 microns ± 50 microns
Fiber size	9/125 microns

Technical data - Mechanical

Maximum tensile strength (IEC794-1)

Install	660N
Operation	220N
Compressive strength	1000N/100mm

Minimum bending radius (IEC794-1)

Install	20 x Diameter
Operation	10 x Diameter

Operating temperature	
Install	-20℃ ~ +60℃
Transport	-20℃ ~ +60℃

Technical data - Physics						
Fiber core number	2	4	6	8	12	24
Cable diameter (mm)	4.0±0.20	4.8±0.25	5.1±0.25	5.6±0.25	6.2±0.25	8.1±0.30
Cable weight (kg/km)	About equal to 14	About equal to 20	About equal to 23	About equal to 30.8	About equal to 37	About equal to 59.9

Indoor 10 Gigabit OM2-150 Multimode Optical Cable Features

High-Speed Support: Capable of 10 Gigabit Ethernet for fast data transfer up to 82 meters.

Multimode OM2 Fiber: Uses 50/125 µm core for short-range indoor networking.

150-Meter Length: Pre-terminated at 150 meters for flexible indoor installations.

Indoor Design: Features a lightweight, flexible jacket (e.g., PVC or LSZH) for safe indoor use.

Wide Compatibility: Works with LED or VCSEL transceivers for 1 Gbps or 10 Gbps connections.

Technical Data - Transmission

Fiber type	Wane				OFL Bandwidth	Effective modal bandwidth	10G Ethernet SX	Minimum Bending Radius
Conditions	1310/1500 nm		850/1300 nm			850 nm	850nm	
	Normal	Maximum	Normal	Maximum				
Single Bit	dB/kilometers	dB/kilometers	dB/kilometers	dB/kilometers	MHz/kilometers	MHz/kilometers	M	MM
G652D	0.36/0.22	0.5/0.4	---	---	---	---	---	16
G657A1	0.36/0.22	0.5/0.4	---	---	---	---	---	10
G657A2	0.36/0.22	0.5/0.4	---	---	---	---	---	7.5
50/125	---	---	3.0/1.0	3.5/1.5	≥500/500	---	---	30
62.5/125	---	---	3.0/1.0	3.5/1.5	≥200/500	---	---	30
OM3	---	---	3.0/1.0	3.5/1.5	≥1500/500	≥2000	≤300	30
OM4	---	---	3.0/1.0	3.5/1.5	≥3500/500	≥4700	≤550	30

BI-OM 3	---	---	3.0/1.0	3.5/1.5	≥1500/500	≥2000	≤300	7.5
BI-OM 4	---	---	3.0/1.0	3.5/1.5	≥3500/500	≥4700	≤550	7.5

FAQ

What is the maximum speed supported by this cable?

It supports up to 10 Gigabits per second (10 Gbps) using the 10GBASE-SR standard, but only up to 82 meters. For 1 Gbps, it can handle the full 150-meter length.

What is the difference between Indoor OS2 and outdoor OS2 cables?

No, OM2 fiber is limited to 82 meters for 10 Gbps. To achieve 10 Gbps over 150 meters, you’ d need OM3 or OM4 fiber or specialized equipment like 10GBASE-LRM transceivers.

What type of fiber is used in this cable?

It uses OM2 multimode fiber with a 50 µm core and 125 µm cladding (50/125 µm), designed for short-range applications.

Is this cable suitable for outdoor use?

No, it’ s designed for indoor use only. It lacks the weatherproofing and durability features needed for outdoor environments.

What connectors does this cable typically have?

It commonly comes with duplex connectors like LC-LC or SC-SC, depending on the specific product, for easy connection to networking equipment.

What is the main advantage of using this cable indoors?

It offers a cost-effective solution for high-speed networking (up to 10 Gbps) over short distances, with a flexible and lightweight design ideal for offices or data centers.