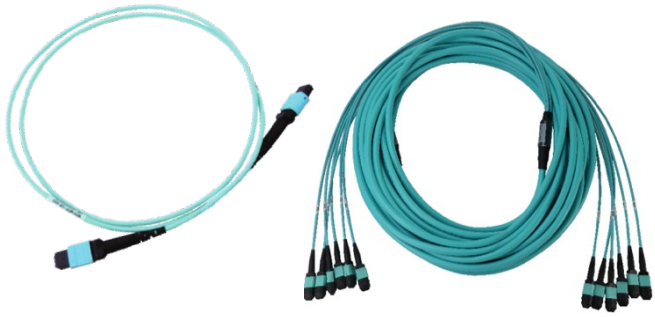
# 12F / 24F MPO Fiber Cable & Patch Cords

## Overview

Wave2Wave.io's w-Ignite MPO Fiber Cables deliver true plug-and-play performance for lab environments, data centers, and other high-density network applications. Each MPO connector terminates 12 or 24 fibers, consolidating multiple discrete connections into a single, compact interface—replacing up to 24 individual fiber links to maximize port density and minimize rack space.

Built to meet or exceed industry standards, every w-Ignite cable is factory pre-terminated, precision-polished, and 100% tested for low insertion loss and back reflection, ensuring consistent optical performance across all connections. The result is a high-quality, high-density interconnect solution that saves installation time, simplifies deployment, and delivers peak signal integrity from day one.





**12 Fiber MPO**



**24 Fiber MPO**

## Features & Benefits

- **Low Insertion Loss (IL) and Return Loss (RL)** ensure optimal optical performance and signal integrity.
- **Factory-terminated and individually tested** for guaranteed quality and reliability.
- **Ready-to-install design** saves time and reduces on-site termination errors.
- **High-density MPO interface** replaces up to 24 individual fiber connectors, maximizing rack efficiency.
- **Precision guide-pin alignment** provides secure mating and consistent optical contact.
- **Push/pull connector mechanism** enables fast, tool-free installation and removal.
- **Dual-end identification labels** provide full traceability and simplify maintenance.
- **Color-coded housings** clearly distinguish Single-Mode and Multi-Mode assemblies.
- Operating Temperature: -10°c to +60°c.
- Storage Temperature: -10°c to +60°c.

## Applications

- Data Center Networking.
- High Density Cross Connect.
- Backbone Installations.
- Telecommunication Networks.
- Enterprise Computing.
- Premise Installations.
- Test Labs.
- Equipment Rooms.

## Optical Performance Specifications

| | MM Elite (850 & 1300nm) | MM (850 & 1300nm) | SM Elite (APC) (1310 & 1550nm) | SM (APC) (1310 &1550nm) |
|---|---|---|---|---|
| Insertion Loss (dB) Typical | 0.10 | 0.20 | 0.10 | 0.25 |
| Insertion Loss (dB) Max | 0.35 | 0.60 | 0.35 | 0.70 |
| Return Loss (dB) Max | -20 | -20 | -55 | -55 |

## Product Selection

**Part Number: AB-CDEFg-XXM**

| AB | C | DE | F | g (option) | XXM |
|---|---|---|---|---|---|
| 50 | 3 (SMF) | 08 | 0 (PC) | P (Plenum) | Length (meters) |
| | 4 (OM3) | 12 | 1 (UPC) | L (LSZH) | |
| | 8 (OM4) | 24 | 2 (APC) | | |
| | 9 (OM5) | | | | |

## Standards Compliance

- Telcordia GR-1435-CORE
- TIA/EIA-568B
- IEC-61754-7
- RoHS