

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.



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

