w-Ignite™ Fiber Optic Patch Cords

Precision-Engineered for High-Performance Networks

Overview

As modern networks demand ever-greater speed, bandwidth, and reliability, **fiber optic cabling** has become the standard for performance-critical infrastructure—delivering **higher data rates, longer reach, and complete immunity to electromagnetic interference** compared to traditional copper cabling.

Wave2Wave.io Fiber Optic Patch Cords are engineered to deliver **superior optical performance** at every connection point. Built to **GR-326-CORE** and **RoHS** standards, each assembly is **factory-terminated, tested, and serialized** to ensure consistent signal integrity across your network.

Designed for **flexibility and customization**, our patch cords can be configured in a wide range of **connector types, fiber grades, jacket materials, and lengths**—tailored to your exact installation requirements. Every cable is individually packaged with a **test report**, and each end is labeled with a **part number, serial number, barcode, and product ID** for fast, error-free deployment.









Features & Benefits

- **Low Insertion Loss (IL)** and **Low Return Loss (RL)** for optimal transmission quality
- **100% factory-tested** with individual test datasheets included
- **Connector options:** LC, SC, FC, ST, MTRJ, LC Uni-Boot, Mini-LC
- **Polish options:** UPC, APC, and PC
- **Fiber types:** OM1, OM2, OM3, OM4 multimode; OS2 single-mode
- **Cable jackets:** Riser (OFNR), Plenum (OFNP), or LSZH for global compliance
- **Serialized labeling system** on both ends (part number, serial, product name)
- **Custom configurations available**—length, color, jacket, or connector style
- **Cost-effective, high-quality system solution** for enterprise and data center networks

Applications

- Data centers and colocation facilities
- Enterprise network backbones and structured cabling systems
- Telecommunications and carrier networks
- Cloud and hyperscale infrastructure
- Test labs and equipment interconnects
- Campus and building riser systems
- Industrial control and automation networks
- FTTH / FTTx installations

Performance Specifications

LC/SC Specifications		Single Fiber Connectors				
		SM (1310 & 1550 nm)			MM (850 & 1300 nm)	
Connector		LC/UPC	SC/UPC	APC	LC/P	SC/PC
Insertion Loss (dB)	Typical	0.15	0.15	0.15	0.10	0.10
	Max	0.30	0.30	0.30	0.20	0.20
Return Loss (dB)	Max	-50	-50	-60	N/A	N/A

Product Selection

Part Number: AB-CDEFg-XXM					
AB	C	DE	F	g (optical)	XX
31 (LC-LC) 31U (Uni-Boot LC) 31P (Pull Tab LC-LC) 33 (SC-SC)	3 (SMF 9/125) 4 (OM3 50/125) 8 (OM4 50/125)	02	0 (PC) 1 (UPC) 2 (APC)	P (Plenum) M (2mm jacket) L (LSZH)	Length (Meters)

Standards Compliance

- EIA/TIA-455-21A
- IEC-61754-7
- TIS-604-5 (FOCIS 5)
- RoHS