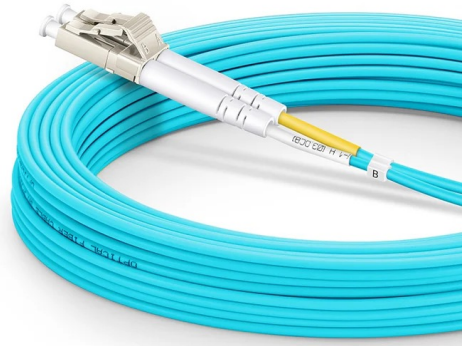
NEXUS
Structure Trading Co.

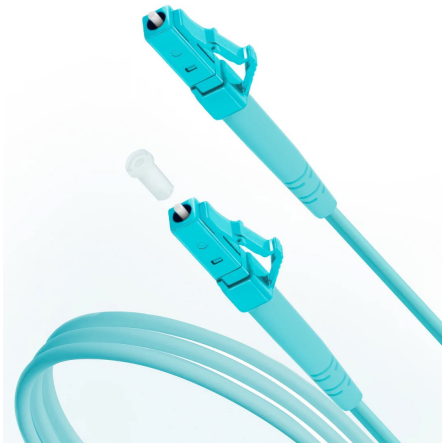
OM3 Fiber Optic Patch Cord

OM3 Fiber Optic Patch Cord - Simplex & Duplex (3.0mm, LSZH Jacket)

- Up to 100Gbps high-speed performance – optimized for VCSEL laser sources
- OM3 multimode fiber – the gold standard for modern LANs and data centers
- 3.0mm LSZH jacket – fire-safe, low-toxicity, and ideal for enclosed spaces
- Simplex & Duplex options – tailored for your application
- Low loss, high reliability – factory-tested and standards-compliant
- Aqua-colored jacket for fast OM3 identification and routing

Available in
Simplex and Duplex
LC to LC
1m / 2m / 3m

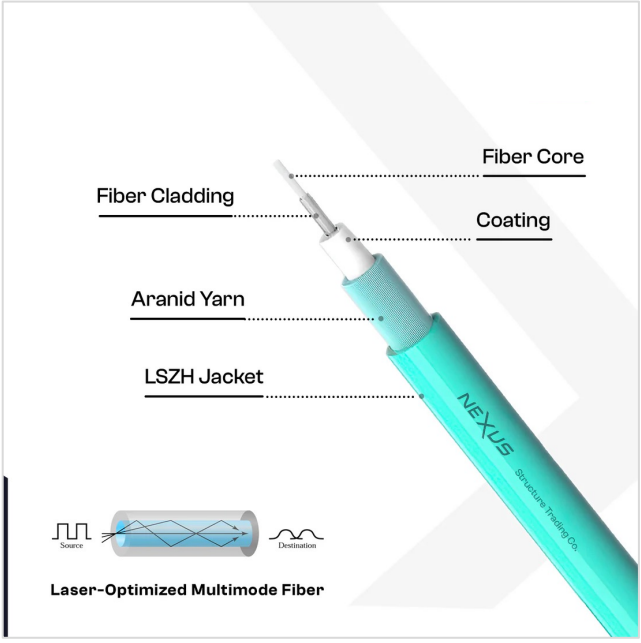




Perfect for:

- ✅ Smart Homes
- ✅ Office Buildings
- ✅ Hotels
- ✅ Industrial Automation
- ✅ Schools & Public Institutions

Designed with precision and constructed using high-grade materials, this cable ensures optimal data transmission, minimal signal interference, and long-lasting durability, making it the ideal solution for connecting sensors, actuators, and control devices in any KNX setup.
Whether you're outfitting a commercial building, smart home, or industrial facility, our KXN/EIB cable supports fast, safe, and efficient communication across your entire KNX network.



Standards & Compliance

ISO9001 - ISO/ IEC 11801 - ANSI/TIA-568-B2

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Technical Specifications

Features	Details
Fiber Type	OM3 Multimode (50/125 µm, Laser-Optimized)
Core/Cladding Diameter	50 µm / 125 µm
Mode Type	Multimode (LOMMF)
Configuration	Simplex (1 fiber) / Duplex (2 fibers)
Jacket Material	LSZH (Low Smoke Zero Halogen)
Jacket Diameter	3.0mm
Jacket Color	Aqua (OM3 Standard)
Supported Data Rates	10 Gbps (up to 300m) / 40–100 Gbps (up to 100m with MPO/MTP)
Operating Wavelength	850 nm (VCSEL-optimized)
Insertion Loss	≤ 0.3 dB (typical)
Return Loss	≥ 35 dB
Connector Types	LC/LC, LC/SC, SC/SC, ST/LC – or custom
Cable Lengths	1m, 2m, 3m, 5m, 10m, 15m, 20m – Custom Available
Temperature Range	-20°C to +70°C
Flame Safety Rating	IEC 60332-1, RoHS, CE – Fully LSZH Compliant
Compliance	ISO/IEC 11801, TIA/EIA-568, IEC-61754

Electrical Characteristics

Parameter	Value (Typical)	Notes
Attenuation (loss)	≤ 3.5 dB/km @ 850 nm ≤ 1.5 dB/km @ 1300 nm	Signal loss per km
Numerical Aperture (NA)	0.200 ± 0.015	Defines light acceptance angle
Bandwidth (EMB)	≥ 2000 MHz·km @ 850 nm	Effective modal bandwidth
Operating wavelength range	850 nm – 1300 nm	Designed for VCSELs & LEDs
Minimum bend radius	10× cable diameter (installed)	To avoid signal loss/damage
Attenuation (loss)	≤ 3.5 dB/km @ 850 nm ≤ 1.5 dB/km @ 1300 nm	Signal loss per km