# 100G Duplex Multimode 50/125 OM4 Armored Fiber Optic Cable (LC/LC Duplex M/M), LSZH, Aqua, 75 m (246 ft.)

MODEL NUMBER: **N821-75M-AQ-AR**









100 GbE Ethernet cable with protective steel armor supports high bandwidths necessary for cloud services, hyperscale data centers and telecom carriers.

## Features

**100 GbE Cable Supports Higher Bandwidths Needed for Data Networking**
As the amount of traffic in data networks grows, so does the need for devices and fiber cables to support higher bandwidths in cloud services, hyperscale data centers, telecom applications and equipment OEM companies. This duplex multimode 50/125 OM4 cable is an ideal choice for 100G Ethernet applications up to 75 meters (246 feet) at 850 nm. It is also backward compatible with 10 Gb, 25 Gb and 40 Gb networks, so you can future-proof your current application for an eventual upgrade to 100 Gb.

**Armored Cable Provides Great Flexibility and Durability**
The N821-75M-AQ-AR can be run anywhere and does not need to be in conduit. Built-in flexible stainless steel and robust Aramid yarn protect the optical fibers more effectively than standard fiber optic cables do. The rugged armored tubing allows optical fiber to be installed in the most hazardous areas, including environments with excessive dust, oil, gas and moisture. This fiber cable provides low insertion loss and high return loss.

**Aqua Jacket Helps Avoid Misidentification That Can Cause Costly Downtime**
The OM4-rated cable has an aqua-colored jacket to identify it as multimode in a crowded patch panel or switch and prevent it from becoming accidentally disconnected. The round low-smoke zero-halogen (LSZH) jacket limits the amount of toxic smoke emitted in case of combustion, making it suitable for poorly ventilated areas.

## Highlights

- OM4-rated cable recommended for 100 Gb speeds up to 75 meters (@ 850 nm)
- Flexible stainless steel tubing protects fiber and helps cable stand up to rigorous use
- Backward compatible with 10/25/40 Gb networks to facilitate future-proofing
- Aqua LSZH jacket allows fast, easy identification in a crowded switch or patch panel

## Applications

Connect 100G fiber Ethernet networks in your cloud service, hyperscale data center or telecom application

## Package Includes

N821-75M-AQ-AR 100Gb Duplex Multimode 50/125 OM4 Armored Fiber Optic Cable, Aqua, 75 m (246 ft.)

# Specifications

| OVERVIEW | |
|---|---|
| UPC Code | 037332264374 |
| Technology | Multimode |
| Optical Mode | OM4 |

| | |
|---|---|
| Mode Type | Multimode |
| **CONNECTIONS** | |
| Side A - Connector 1 | LC DUPLEX (MALE) |
| Side B - Connector 1 | LC DUPLEX (MALE) |
| Endface Polish | PC |
| **PHYSICAL** | |
| Material of Construction | Outer Jacket: PVC (LSZH Rating); Inner Flexible Steel Tube: SUS204 (Armored) |
| Cable Jacket Color | Aqua |
| Connector Color | Aqua; White |
| Cable Jacket Material | LSZH |
| Cable Jacket Rating | OFNR |
| Cable Outer Diameter (OD) | 3.0 mm |
| Clad Diameter (microns) | 125 |
| Core Diameter (microns) | 50 |
| Primary Coating Diameter (microns) | 550 |
| Number of Fibers | 2 |
| Cable Length (ft.) | 246 |
| Cable Length (m) | 75.00 |
| Cable Length (in.) | 2952.8 |
| Minimum Bend Radius | 30mm |
| Shipping Dimensions (hwd / in.) | 12.00 x 10.50 x 0.50 |
| Shipping Weight (kg) | 1.07 |
| Fiber Cable Length | 75M (246 ft) |
| **ENVIRONMENTAL** | |
| Operating Temperature Range | -4° to 140°F (-20° to 60°C) |
| Storage Temperature Range | -4° to 140°F (-20° to 60°C) |
| Operating Humidity Range | 5% to 85% RH, Non-Condensing |
| Storage Humidity Range | 5% to 85% RH, Non-Condensing |
| **COMMUNICATIONS** | |
| Network Compatibility | 1 Gbps (Gigabit); 10 Gbps; 25 Gbps; 40 Gbps; 100 Gbps |
| Wavelength | 1300nm; 850nm |
| Attenuation @ 850NM | 3.0 dB/km |
| Attenuation @ 1300NM | 1.0 dB/km |

| | |
|---|---|
| Insertion Loss | 0.20 dB |
| **FEATURES & SPECIFICATIONS** | |
| Push/Pull Tabs | No |
| Breakout | No |
| Trunk | No |
| Armored Cable | Yes |
| Optical Port | LC |
| **STANDARDS & COMPLIANCE** | |
| Product Compliance | RoHS; REACH |
| **WARRANTY & SUPPORT** | |
| Product Warranty Period (Worldwide) | Lifetime limited warranty |

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