

## Lebanon fiber optic logging cable model



### Overview

Founded to bring enterprise-grade fiber connectivity to Lebanon and the broader Middle East at prices that make sense.

### Key Takeaways

Lebanon primarily uses GPON-compatible fiber optic cables for FTTX deployments, with local suppliers providing European and American-grade models suitable for FTTH and FTTC networks. Fiber Optic Infrastructure in Lebanon

Lebanon's fiber optic rollout is part of the FTTX project led by OGERO and the Ministry of Telecommunications, including Fiber-to-the-Home (FTTH) and Fiber-to-the-Cabinet (FTTC) deployments to ensure internet speeds of at least 50 Mb/s . The infrastructure consists of:

- Optical Distribution Network (ODN): Passive fiber cables, splitters, and distribution frames connecting the central office to subscribers .
- GPON Standard: Supports 2.488 Gbps downstream and 1.244 Gbps upstream per OLT port, shared via splitters (1:8, 1:16, 1:32) to multiple subscribers .
- Subscriber Equipment: ONUs/ONTs convert optical signals to Ethernet for end-user devices .

### Common Fiber Optic Cable Types

Lebanese deployments typically use single-mode fiber (SMF) for long-distance and high-speed GPON networks. Key cable types include:

- Trunk/Backbone Cables: High-capacity, outdoor-rated single-mode fibers connecting central offices to street cabinets.
- Distribution Cables: Indoor/outdoor-rated cables feeding multiple subscribers from splitters.
- Drop Cables: Smaller, flexible cables connecting the distribution network to individual homes or buildings. Local suppliers provide tested and certified cables compatible with international standards:
- Fiber Works & Communications (FWC): Supplies European and American fiber optic products for enterprise and FTTX projects .
- OptiLink: Offers GPON-compatible cables and optical transceivers, pre-tested for plug-and-play compatibility with Cisco, Huawei, MikroTik, and other equipment .
- Legrand Lebanon: Provides fiber optic cables, panels, and connectors suitable for both indoor and outdoor installations .

#### Selection Considerations

When choosing fiber optic cables for logging or deployment in Lebanon:

- Compliance with GPON standards for FTTH/FTTC networks.
- Outdoor vs. indoor rating depending on installation location.
- Cable core count (commonly 4, 8, 12, 24 fibers) based on subscriber density.
- Supplier certification to ensure signal integrity, temperature tolerance, and durability.

#### Summary

Lebanon's fiber optic network relies on single-mode GPON-compatible cables supplied by local vendors like FWC, OptiLink, and Legrand. These cables are used in trunk, distribution, and drop segments of the FTTX infrastructure, supporting high-speed broadband and scalable subscriber connections . For logging or network planning, selecting cables that meet GPON specifications and are certified for Lebanese environmental conditions is essential.

## Article Content

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This development has led to a new logging cable with superior mechanical properties, containing eight electrical wires and three

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CT logging service leverages powers of fiber-optic telemetry

The fiber-optic telemetry allows the BHA to communicate with the logging system, which provides real-time production

Bazaid et al No 1

Unlike traditional single-point measurements that rely on discrete sensors measuring the data at predetermined stations, distributed

Encapsulated Cable

11.8mm Fiber Optic Double Steel Wire Armored Logging Cable Construction  
Description The 11.8mm Fiber Optic Double Steel Wire

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The new technique uses coiled tubing equipped with optical fibers to acquire real-time measurements from the

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