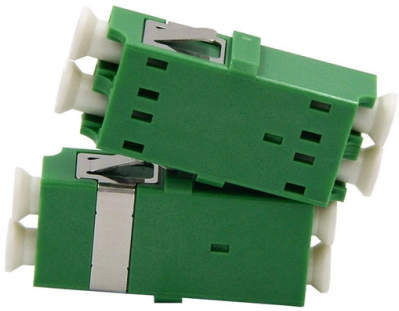
ZITHA TECH SPECIALTY CABLES (Pty) Ltd

Lebanon Fiber Optic Cable Upgrade Fusion Splicer



Overview

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

Key Takeaways

Fusion splicing is the preferred method for upgrading Lebanon's fiber optic networks, offering low-loss, high-reliability connections, with local suppliers providing advanced splicing equipment and support.Fiber Optic Infrastructure in Lebanon

Lebanon is actively expanding its FTTX and high-speed fiber networks, with projects involving ISPs, enterprises, and government entities like OGERO and the Ministry of Telecommunications. Companies such as Fiber Works & Communications (FWC) S.A.R.L. provide expertise in system integration, supply of European and American fiber products, and support for ongoing infrastructure upgrades . Local suppliers like OptiLink offer a wide range of optical transceivers, cables, and modules compatible with Cisco, Huawei, MikroTik, and other major brands, ensuring reliable connectivity for data centers and enterprise networks .

Fusion Splicers for Lebanon

Fusion splicers are essential for joining optical fibers with minimal signal loss. They use an electric arc to permanently fuse fibers, creating a continuous light path. Fusion splicing is preferred over mechanical splicing due to lower attenuation, higher reliability, and long-term durability .

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Types of Fusion Splicers
• Core Alignment Splicers: High-performance devices that align fiber cores precisely, ideal for critical network deployments.

• Cladding Alignment Splicers: More portable, suitable for field operations with slightly lower precision.

• Mass Fusion Splicers: Available in 4-core or 16-core models, used for FTTH installations or data center backbone construction .
Example: EussoNet EU-A-88S

The EussoNet EU-A-88S is a widely used fusion splicer in Lebanon, featuring:

• High-definition 5-inch LCD for clear operation

• Typical splicing time of 6 seconds and heating time of 15 seconds

• Large 6400mAh battery supporting up to 250 splices per charge

• Compatibility with SM, MM, DS, NZDS, and custom fiber types

• Rubber-coated exterior and night illumination for field use
Best Practices for Fiber Splicing
• Prepare the fiber: Strip 3–5 cm of the outer jacket, carefully remove the buffer coating, and clean with IPA to avoid contamination .

• Precision cleaving: Ensure a flat, mirror-like fiber end to minimize splice loss.

• Proper placement: Position fibers in the splicer's V-groove without forcing them, then close the covers gently.

• Use quality consumables: Low-quality splice sleeves can triple failure rates over five years.

• Field readiness: Use splicers with sufficient battery capacity and portability for outdoor or remote installations.
Local Support and Procurement

Lebanese suppliers like AYOUB Computers and OptiLink provide both equipment and technical support, including delivery, training, and compatibility testing. This ensures that network upgrades are executed efficiently and meet international standards . By combining advanced fusion splicers, certified technicians, and high-quality fiber components, Lebanon's fiber optic upgrades can achieve low-loss, high-speed, and reliable network performance suitable for modern telecommunications and enterprise needs.

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Fusion fiber splicing provides a permanent fusion connection between fibers and offers a lower insertion loss versus mechanical

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Fusion splicing

Fusion splicing is the act of joining two optical fibers end-to-end. The goal is to fuse the two fibers together

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Explore a wide range of fiber splicers featuring LCD screens, large battery capacity, and portable design. Perfect for field installation

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The FOA Reference For Fiber Optics

In addition to the splicer and cleaver, the tech doing the splicing will need a set of cable preparation and fiber stripping tools. Since

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Highlights Fusion splicers are essential for creating low-loss, high-performance fiber optic

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Fiber Optic Cable – Method of Joining and Fusion Splicing

Learn about the fiber optic cable operating principle, types, connectors, method of joining and fusion splicing.

How to Splice Fiber Optic Cable – Step-by-Step Fusion Splicing Guide

Learn how to splice fiber optic cable using fusion splicing with this complete step-by-step guide. Includes tools, best

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