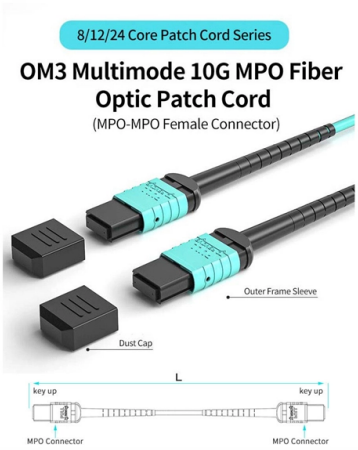
Flame-retardant dry optical cable manufacturer



Overview

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Key Takeaways

Leading manufacturers of flame-retardant dry optical cables include Optral, APAR, ETK Kablo, and COFITEL/Leviton, offering CPR-compliant, low-smoke, halogen-free, and mechanically robust solutions.Key Manufacturers and Products

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Optral produces CPR fire-resistant optical cables with Euroclass Dca, Cca, and B2ca classifications, ensuring safety and performance for critical applications. Their cables are certified by UL, Bureau Veritas, and DNV, suitable for environments requiring high fire safety standards . APAR offers fire-resistant and fire survival optical cables with steel wire or corrugated steel tape armor, gel-filled loose tubes, and LSZH flame-retardant sheaths. These cables maintain operation for up to 3 hours in fires up to 750ºC and are suitable for emergency communication systems, tunnels, metro lines, and public buildings . ETK Kablo manufactures B2ca-classified fiber optic cables that ensure continuous data transmission under extreme heat and flame. Their cables feature low smoke emission, zero halogen content, and mechanical durability, making them ideal for hospitals, airports, industrial plants, and data centers . COFITEL/Leviton offers the ADVENTUM™ Fire Survival and RailSafe Steel Tape Armor cables with dry core tube construction, gel-free design, and high-strength corrugated steel tape armor. These cables meet IEC60331-25 flammability standards and London Underground LUL S-1085 specifications, providing fire performance, mechanical protection, and bend-insensitive fiber options for single-mode and multimode applications .

Applications

These flame-retardant dry optical cables are widely used in:

• Emergency communication and fire alarm systems

• Tunnels, metro lines, and underground rail networks

• Hospitals, airports, and industrial plants

• Data centers and critical infrastructure requiring continuous connectivity during fire events

Features to Consider

When selecting a manufacturer, consider:

• Fire-resistance rating (e.g., B2ca, Cca, Dca)

• Low smoke and halogen-free properties

• Mechanical protection (armored vs. unarmored)

• Dry-core or gel-free construction for easier installation

• Compliance with international standards (UL, IEC, CPR, LUL S-1085) These manufacturers provide reliable solutions for high-safety environments, ensuring both operational continuity and compliance with stringent fire safety regulations.

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Suitable for indoor installation and in ducts outdoors. This FireTuf fire resistant fibre optic range is fully compliant with fire resistant

Draka FireTuf OFC-LT-NM Fire Resistant Fibre Optic Cable Non

Suitable for indoor installation and in ducts outdoors. This FireTuf fire resistant fibre optic range is fully compliant with fire resistant

Related Video Reference

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