

Flame-retardant vehicle-mounted fiber optic four-port information panel



Overview

Fiber Panels CommScope's FPX series fiber panels are available to be shipped with factory installed adapter packs and/or preterminated pigtail AEN071 rev 4.

Key Takeaways

A flame-retardant, vehicle-mounted fiber optic four-port panel provides secure, fire-resistant fiber termination and distribution for mission-critical applications.

A four-port fiber optic information panel is designed to terminate, organize, and distribute fiber optic connections in a compact, durable enclosure. Panels intended for vehicle-mounted or mobile applications are typically made from high-quality ABS flame-retardant materials, ensuring safety in environments where fire risk exists . These panels support singlemode (OS2) and multimode (OM3/OM4) fibers, allowing flexible deployment for high-speed data transmission .

Key Features

- **Flame Retardancy and Fire Safety:** The enclosure and cables are often FRNC (Flame Retardant Non-Corrosive) or LSZH (Low Smoke Zero Halogen), reducing fire propagation and toxic emissions in case of fire . Fire-resistant fiber optic cables maintain signal integrity during fire emergencies, complying with standards such as IEC 60331-25 and IEC 60332-2-3 .

- **Fiber Protection:** Panels include mechanical splice holders, adapter slots, and cable management trays to prevent fiber damage. Redundant fibers are protected from external forces, ensuring minimal attenuation .
- **Mounting Options:** Suitable for vehicle, wall, or rack mounting, these panels are compact and robust, with tensile strength exceeding 50N for secure installation .
- **Port Configuration:** Four ports allow connection of multiple fibers, supporting FTTx applications such as fiber-to-the-desktop (FTTD) or vehicle communication networks .
- **Durability:** Panels are designed for outdoor and indoor use, resistant to UV, moisture, and mechanical stress, ensuring reliable operation in mobile or harsh environments .

Applications

- **Vehicle Communication Systems:** Ensures safe, high-speed fiber connections in emergency, military, or industrial vehicles.
- **Fire Alarm and Voice Evacuation Networks:** Maintains critical communication links during fire events .
- **Industrial and Tunnel Monitoring:** Compatible with Distributed Temperature Sensing (DTS) and fiber-optic linear heat detection systems for fire monitoring .

Installation Considerations

- Maintain proper cable bend radius to prevent microbending losses.
- Use secure mounting clips to avoid sagging or strain.
- Ensure fiber marking and port labeling for accurate network management.
- Select cable diameter (2–5 mm) appropriate for thermal response and mechanical protection .

Summary

A flame-retardant, vehicle-mounted four-port fiber optic panel combines fire safety, durability, and high-performance fiber management. It is ideal for mobile, industrial, and safety-critical applications, providing reliable connectivity while minimizing fire hazards and maintaining signal integrity under extreme conditions .

Article Content

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