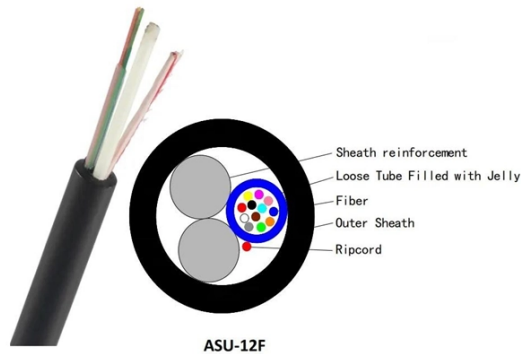


Fiber optic cable sw



Overview

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Key Takeaways

SWA (Steel Wire Armoured) fiber optic cables are armored cables designed for high durability, rodent protection, and outdoor or underground installation. Construction and FeaturesSWA fiber optic cables consist of multiple layers to ensure mechanical protection and environmental resilience. Key components include a central strength element, loose tubes filled with gel for fiber protection, strength members, ripcords, an inner jacket, steel wire armoring, and an outer jacket, often made of LSZH (Low Smoke Zero Halogen) thermoplastic for safety and durability.

The steel wire armoring provides resistance against crushing, impact, and rodent attacks, making these cables suitable for direct burial and harsh outdoor conditions. Types and Fiber OptionsSWA cables are available in single-mode (OS2) for long-distance transmission and multimode (OM1, OM2, OM3, OM4, OM5) for high-bandwidth, shorter-distance applications. Fiber counts can range from 4 to 96 cores, depending on the installation requirements.

Pre-terminated SW



A cables are also available, allowing quick installation without specialized termination equipment, and can be fitted with connectors such as LC, SC, ST, FC, or APC variants. Applications SWA fiber optic cables are widely used in environments where durability is critical, including: Underground and direct burial installations Outdoor fiber networks Industrial automation systems LAN and WAN backbones Telecom access lines and fiber-to-the-building connections The robust construction ensures protection against moisture, soil acidity, tensile stress, and environmental wear, making SWA cables ideal for both indoor/outdoor and industrial applications.

Installation Considerations Pre-terminated SWA cables simplify installation by providing epoxy-bonded glands, Kevlar strain relief, and protective sleeves to handle high-tension loads during pulling through ducts or trays. Standard tail lengths and breakout options allow flexibility in connecting to enclosures or network equipment. Proper handling ensures the cable maintains its mechanical and optical performance over time.

Summary SWA fiber optic cables combine high-speed data transmission with mechanical robustness, making them a preferred choice for outdoor, underground, and industrial fiber optic networks. They are available in various fiber types, counts, and pre-terminated configurations to suit different installation needs.

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