

What are the materials used for the outer sheath of pigtail fiber



AI Overview

Common outer sheath materials for pigtail fiber include PVC, LSZH, HDPE, LDPE, and various rubber compounds, each chosen based on environmental and safety requirements.

Common Sheath Materials

- 1. PVC (Polyvinyl Chloride)** PVC is widely used due to its good wear resistance, corrosion resistance, and affordability. It provides basic protection against abrasion and environmental factors, making it suitable for indoor installations. However, PVC releases toxic gases and black smoke when burned, limiting its use in fire-sensitive areas.
- 2. LSZH (Low Smoke Zero Halogen)** LSZH sheaths are designed for fire safety, producing minimal smoke and toxic gases during combustion. They are ideal for indoor environments with strict safety requirements, such as hospitals, schools, and public buildings. LSZH is more expensive than PVC but offers enhanced personnel and equipment protection.
- 3. HDPE (High-Density Polyethylene)** HDPE is tough, rigid, and highly durable, making it suitable for outdoor and direct burial applications. It resists water, UV radiation, chemicals, and extreme temperatures, providing long-term reliability in harsh environments. HDPE is commonly used for telecommunications and fiber optic feeder cables.
- 4. LDPE (Low-Density Polyethylene)** LDPE offers greater flexibility than HDPE, which can be advantageous in installations requiring bending or maneuvering. While it is less durable for long-term outdoor exposure, it is sometimes used as a compromise between flexibility and environmental resistance.
- 5. Rubber-Based Sheaths** Rubber sheaths, including natural rubber, chloroprene, silicone, and EPR (Ethylene Propylene Rubber), provide excellent flexibility, chemical resistance, and heat resistance. They are suitable for dynamic or high-handling applications, though they are generally more expensive and complex to manufacture.
- 6. Specialty Mate...**

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Fiber optic cable outer sheath material

Optical fiber cables are generally composed of optical fiber cores, cladding, coatings, reinforcing elements, and outer sheaths. The outer sheaths are used as the protective layer of the

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DIGITUS OS2 Fibre Optic Cable

Cable sheath: The outer sheath of the fibre optic network cable is made of halogen-free material (LSZH = Low Smoke Zero Halogen) and has a flame-retardant fire behaviour FEATURES: Fiber Optic

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DTC Fiber Optic Cable Specifications

This document provides specifications for DTC fiber optic pigtail cables. It describes the cable construction including a PVC outer sheath and SC or LC connectors.

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