Ribbon-type optical cable with skeleton

Article Overview

A skeleton-type ribbon optical cable features optical fiber ribbons placed in HDPE skeleton grooves, reinforced centrally, with water-blocking, metal or aramid layers, and an outer protective sheath.

Core Structure

The skeleton-type optical fiber ribbon cable is built around a central skeleton that contains multiple skeleton grooves arranged circumferentially. Each groove holds an optical fiber ribbon, allowing high-density fiber placement while maintaining a compact cable diameter . A central reinforcing element, such as a steel wire or aramid rod, provides mechanical strength and stability to the cable core .

Reinforcement and Sheathing

Surrounding the skeleton, the cable includes:

• Water-blocking tape to prevent moisture ingress .
• Metal tape (often double-coated aluminum) or aramid fiber layers for tensile strength and lateral pressure resistance .
• Outer sheath made of polyethylene (PE) or low-smoke zero-halogen (LSZH) material, sometimes with alternating reinforcing and sheath layers to enhance impact resistance and facilitate stripping during installation . The reinforcing layer is positioned above the skeleton grooves to protect the optical fiber ribbons effectively .

Key Features...

Article Content

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The invention discloses a skeleton type optical fiber ribbon cable which comprises a skeleton, wherein a plurality of skeleton grooves

CN103087396B

The invention relates to an optical cable skeleton material required by skeleton-type optical cables in the modern communication

Ribbon Fiber Optic Cable

Fiber Optic Ribbon Cable Ribbon cables offer higher fiber counts and greater fiber density than any other cable construction

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The invention further discloses a manufacturing method of the skeleton type optical cable. The skeleton type optical cable has the

Detailed explanation of the application of skeleton optical fiber ...

In view of the large number of optical fiber cores and the need for frequent offline and branch connection, it is advisable to use a

Ribbon Fiber Cables and Loose-tube Cables

Ribbon optical cables provide an ideal choice for deployment in campus, building and data center backbone applications where fiber

Fiber Optic Cables

CommScope designs and manufactures a comprehensive line of fiber optic cables—from outside plant to indoor/outdoor and fire

Ribbon Fiber Cable A comparison with Non-Ribbon Cable_october copy

What is a Ribbon Optical Cable? Optical fiber ribbons are made up of individual fibers aligned in a single row then impregnated with

FTTH Distribution Section Skeleton Optical Fiber Ribbon Cable ...

Skeleton fiber optic ribbon cable has the characteristics of high fiber density, small outer diameter, saving pipeline resources, good

Skeleton type optical cable and preparation method thereof

The skeleton type optical cable comprises a central skeleton and a peripheral skeleton; the peripheral framework is embedded with

What is fiber optic ribbon cable? What are the advantages and ...

Optical fiber ribbon cable refers to the optical fiber cable in which the optical fiber in the cable adopts the optical fiber

FTTH Distribution Section Skeleton Optical Fiber Ribbon Cable ...

FTTH distribution cables usually have several types of stranded loose tube cables, loose tube ribbon cables and skeleton ribbon

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The invention relates to a flexible skeleton type optical fiber ribbon cable and a preparation method thereof, and the flexible skeleton

Ribbon Fiber Optic Cable

Designed to meet the demands of today''s data-intensive world, these cables are comprised of multiple optical fibers bundles in a flat

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The invention improves the impact resistance of the skeleton type optical fiber ribbon cable, and meanwhile, the reinforcement layer

Contact Us

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