Skeleton-type optical cable manufacturer



Overview

We''ve manufactured millions of custom cables for all sorts of applications, but we''re especially knowledgeable in these areas.

Key Takeaways

Skeleton-type optical cables are specialized fiber optic cables designed for high-density, flexible, and reliable data and power transmission, with manufacturers including ZR Cable, Optical Cable Corporation (OCC), and other global fiber optic producers.

Overview of Skeleton-

Type Optical CablesSkeleton-type optical cables feature a central skeleton structure with rectangular grooves that house optical fiber ribbons, along with side grooves for power or signal transmission units. This design provides high optical density, flexibility, ease of installation, and low maintenance costs. The cables are suitable for applications requiring both data and power transmission, and they are often used in FTTH (Fiber-to-the-Home) networks and industrial environments.

Notable ManufacturersZR CableOffers full-dry skeleton tight-buffered fiber optic cables, which replace traditional optical fiber ribbons with tight-sleeved loose fibers to reduce resin wrapping and facilitate construction and splicing. Features include moisture resistance, lateral pressure resistance, and easy longitudinal sectioning, making them suitable for FTTH access networks. Optical Cable Corporation (OCC)A U.

© 2026 CGWEB NETWORK INFRASTRUCTURE - All rights reserved

S.-based manufacturer with over 30 years of experience in fiber optic and hybrid cables. Provides high-performance, rugged optical cables for industrial, broadcast, and military applications, which may include skeleton-type designs for specialized deployments.

Other Global Fiber Optic Manufacturers

Companies such as AFL (USA) and Shenzhen Necero Optical Fiber and Cable Co., Ltd. (China) produce a wide range of fiber optic cables, including high-density and specialty designs that may encompass skeleton-type configurations. Corning also offers a broad portfolio of optical communication products, which can include custom or high-density cable solutions suitable for skeleton-type applications.

Advantages of Skeleton-

Type Optical Cables

High optical density allows more fibers in a compact design. Flexibility for installation in tight or complex pathways. Integrated power and signal transmission capabilities.

Durability and reliability in harsh environments. Ease of maintenance and splicing, reducing operational costs. ApplicationsFTTH and FTTX networks for residential and commercial broadband.

Industrial networks requiring robust and flexible cabling. Broadcast and military communications where high reliability and environmental resistance are critical. For procurement, it is recommended to contact these manufacturers directly to discuss custom specifications, fiber counts, and environmental requirements to ensure the selected skeleton-type optical cable meets your project needs.

Article Content

Skeleton type optical cable and manufacturing method

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

Custom Cables Solution and Assemblies Manufacturer

We''ve manufactured millions of custom cables for all sorts of applications, but we''re especially knowledgeable in these areas. High-speed camera connectivity,

Prysmian | Cables, Energy & Telecom Solutions | Prysmian

Welcome to Prysmian: the world leader in cable manufacturer, energy solutions, telecom cables and systems industry. Find out more!

CN104730667B

© 2026 CGWEB NETWORK INFRASTRUCTURE - All rights reserved

The invention also discloses a manufacturing method of the skeleton type optical cable. The invention has the advantages of more flexible use, higher optical fiber density, capability of transmitting power

Optical Fibre | Prysmian

With centres of excellence the Netherlands and France, and five production sites around the world, we are a world-leading manufacturer of optical

Reputable Manufacturer of Skeleton-Type Outdoor Optical Cables

AITAF provides end-to-end optical communication solutions, structured cabling, ODN, optical modules, fiber testing instruments, data center networks, base station energy, smart city communications, and

Copper Cables, Optical Fibre Cables and Systems | Selsor

Our ongoing investment in technology ensures that our optical fibre cables, copper cables and systems are of the highest quality standards. We offer a 25 year warranty on our structured

WO2023221026A1

A super-soft low-cost corrugated skeleton groove type optical cable, comprising a central reinforcing member (1), a skeleton groove body (2), and grooves (3) in sequence from inside to outside. The

Types of fiber optic cable

1. Classification by structure A. Strand fiber optic cable Several fibers or fiber units spiral stranding around the center reinforcement. Features:

Skeleton type and loose tube layer stranded mixed optical cable

The invention relates to a framework type and loose tube layer stranded type mixed optical cable which comprises a reinforced core, wherein a protective installation mechanism is arranged on the

CN113325533A

The invention discloses a skeleton type optical fiber ribbon cable which comprises a skeleton, wherein a plurality of skeleton grooves are uniformly formed in the circumference direction of the skeleton, a

CN103087396B

The invention relates to an optical cable skeleton material required by skeleton-type optical cables in the modern communication industry. The optical cable skeleton material is prepared from resins such as

© 2026 CGWEB NETWORK INFRASTRUCTURE - All rights reserved

About OCC

We manufacture and design top-tier fiber optic and copper cabling and connectivity products to support a wide range of application solutions. We''re the second

10 Best Fiber Optic Manufacturers for 2026

Discover the best fiber optic manufacturers globally, offering cutting-edge multimode and single mode fiber solutions. See who tops the list for quality and innovation.

The structure of fiber optical cable

1, Outdoor fiber optical cable mainly has the center tube cable, laminate cable and skeleton cable three kinds of structure, according to the use of optical fiber bundle and optical fiber

Top 10 Fiber Optic Cable Suppliers & Manufacturers

Fiber optic cables have revolutionized the way data is transmitted, providing high-speed and reliable connectivity crucial for modern communication networks. Their are numerous suppliers

Top 24 Fiber Optic Cable Manufacturing Companies

Top 24 Fiber Optic Cable Manufacturing Companies 1. Afl Website: aflglobal Ownership type: Corporate Headquarters: Duncan, South Carolina, United States (USA) Employee distribution:

WO/2023/221026 SUPER-SOFT LOW-COST CORRUGATED SKELETON GROOVE TYPE ...

A super-soft low-cost corrugated skeleton groove type optical cable, comprising a central reinforcing member (1), a skeleton groove body (2), and grooves (3) in sequence from inside to outside.

© 2026 CGWEB NETWORK INFRASTRUCTURE - All rights reserved

Contact Us

Continue your research online:

Website: https://cgweb.co.za
Technical inquiry: https://cgweb.co.za/project-enquiry.html

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

© 2026 CGWEB NETWORK INFRASTRUCTURE - All rights reserved