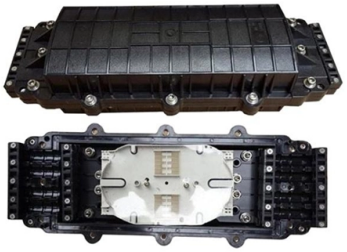
ASU Optical Cable Production



Overview

Surelink-ADSS,ASU cable,fiber optic cable 20years professional factoryWe design, develop, manufacture and sell fibre optic cabling, connectivity, managemen.

Key Takeaways

ASU optical cables are produced using specialized high-speed production lines that integrate stranding, sheathing, and water-blocking processes for aerial self-supporting fiber deployment. Cable Structure and FeaturesASU (Aerial Self-Supporting Unit) optical cables are designed for outdoor aerial distribution networks. They feature an all-dielectric construction with FRP (Fiber Reinforced Plastic) strength members, eliminating the need for grounding and providing immunity to electromagnetic interference.

Key structural components include: Central Strength Member (FRP): Provides high tensile strength while keeping the cable non-metallic. Loose Tube Technology: PBT loose tubes containing optical fibers (up to 144 cores) are stranded around the central member and filled with water-blocking jelly to protect fibers from moisture. Water Blocking System: Dry water-blocking yarns or tapes prevent water ingress.

Outer Sheath (PE): UV-stabilized HDPE jacket protects against sunlight, abrasion, and environmental conditions. Rip Cord: Facilitates easy jacket stripping during termination.

AS

U cables are optimized for spans of 80m to 120m, making them suitable for urban and rural aerial installations.

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Production Process

The production of ASU optical cables involves several integrated steps using advanced machinery: Fiber Payoff: 1–12 cores of optical fiber are fed using Danfoss driver-controlled payoffs. Jelly Filling: Loose tubes are filled with water-blocking jelly and air is removed automatically. Electrostatic Cleaning: Impurities on fiber surfaces are removed before extrusion.

Extrusion: High-quality PP/PPT materials are extruded over the fibers using main extruders with Siemens motors. Stranding and Sheathing: Tube and FRP stranding, along with outer sheathing, are performed simultaneously on high-speed lines (up to 90 m/min) controlled by PLC+IPC systems. Cooling and Diameter Control: Warm and cooling water troughs gradually cool the cable, while diameter gauges monitor dimensions in real-time.

Capstan and Take-

Up: Line speed is automatically adjusted, and finished coils are taken up semi-automatically. ApplicationsASU optical cables are ideal for: Campus networks and inter-building connections. Medium and long-distance LAN backbones requiring compact, robust, and self-supporting cables.

Installations alongside power lines without the need for metallic shielding.

Advantages

Lightweight and cost-effective compared to traditional ADSS cables. High mechanical strength due to FRP central members. Water and environmental protection through jelly-filled tubes and HDPE jackets.

Operational efficiency with high-speed, automated production lines.

AS

U optical cable production combines precision engineering, advanced materials, and automated processes to deliver reliable, high-performance aerial fiber solutions suitable for modern telecommunications infrastructure.

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Article Content

Surelink-ADSS,ASU cable,fiber optic cable 20years professional factory

We design, develop, manufacture and sell fibre optic cabling, connectivity, management and systems solutions. We produce wide range of products: optical fiber cable, FTTH accessories such as fiber

ASU fiber cable in production. #ASUfibercable

ASU fiber cable,the most cost-effective choice for overhead optical cables with a span of less than 100 meters and 24 cores.

High-Performance ASU Optical Fiber Cable

Buy premium ASU optical fiber cable (Single Mode OS2) for long-distance, high-speed data transmission. Ideal for telecom, data centers & enterprise networks. Low attenuation & durable design.

ASU Cable

We work closely with multiple qualified optical cable manufacturers in China, but more importantly, we are deeply involved in fiber optic cable production lines, raw materials selection, and process design.

High-Efficiency Sheathing Line for Versatile Fiber Optic Cable ...

Customization options for non-process components, such as equipment color and component brands, are available to meet your specific requirements. Elevate your production capabilities with our cutting

ASU Fiber Optic Cable | Aerial Self-Supporting & Dielectric (FRP)

Streamline your aerial deployments with our ASU Fiber Optic Cable. Featuring an All-Dielectric design with FRP strength members, this self-supporting cable is optimized for 80m-120m spans, offering a

ASU Aerial Self-Supported Cable From China

ASU 80 6 Fiber Optic Cable is recommended for structured cabling systems for voice, data and image traffic, with distribution on campus, between

ASU Fiber Cable: Reliable & Customized FTTH Solutions From GL

At GL FIBER, we specialize in manufacturing ASU cables tailored to global standards, supporting seamless connectivity in telecommunications and broadband infrastructure.

ASU 80, ASU 100, ASU 120 Specification & Price

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GL FIBER is a CE, ISO, Anatel certified fiber optic cable manufacturer and supplier based in China. Each cable drum is 100% factory

ASU CABLE

Ingenious cable construction and design make ASU cable lower cost ASU CABLE is the domestic abbreviation. This self-supporting single-cased aerial optical cable, whose full Portuguese

Aerial Self Supported ASU Fiber Optic Cable

Aerial Self Supported ASU Fiber Optic Cable ASU optical cable, or All-Dielectric Self-Supporting Utility cable, is designed for aerial installations where no

adss,asu,indoor/outdoor fiber optic cable manufacturers|China oufu

Fiber optic cable Chinese factories CUSTOM PRODUCTION China Fiber Optic Cable Factory We have stable, professional, and efficient research and development of optical cables, with our main

ASU optical cable: explore its excellent performance and wide range

In the rapidly developing field of optical fiber communications, ASU optical cables have won wide recognition in the industry for their excellent performance and wide range of applications. This article

Advanced ASU Cable Production Line

Discover ASU Cable Production at HongKai Cable Machine: High-speed, efficient, cutting-edge technology, boosting quality.

Outdoor aerial fiber optic cable Mini ADSS ASU80 6core

Description Specification Application Order Downloads/FAQ Product Tags Reviews Description The Outdoor Aerial ASU Fiber Optic Cable is a cost-effective and high-performance solution designed for

AS Cables VS ASU Cables

ASU cable As with the AS cable, the first two letters of the ASU cable abbreviation mean that it is a self-supporting cable, while the letter U means

ASU fiber optical cable

ASU cable is also known as Mini ADSS optical fiber. It is a kind of optical cable which is composed of all dielectric materials and contains necessary self-supporting system and it can be

ASU Fiber Optic Cable-Feiboer Fiber Optic Cable

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2 to 24 Optical fiber ASU cable (AS80 and AS120) is a self-supporting optical cable used to connect equipment, suitable for urban and rural networks, with a span of 80 meters or 120 meters. Because it

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

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