Manufacturer of High-Density Optical Cable Sheathing Material



Overview

Explore 9 top manufacturers and suppliers of Fiber Optic Sheathing in our comprehensive photonics buyers'' guide.

Key Takeaways

Leading manufacturers of high-density optical cable sheathing include Borealis, Zeus, Maillefer, and ZMS Material, offering advanced polyethylene and polymer-based solutions for fiber optic protection.

Borealis

Borealis provides a wide range of linear low, medium, and high-density polyethylene (PE) compounds suitable for fiber optic cable jacketing. Their Borstar® technology ensures easy processing, low shrinkage, and high stress crack resistance, making it ideal for durable optical cable sheathing applications. Borealis operates globally with headquarters in Vienna, Austria, and serves over 120 countries, offering innovative polyolefin solutions for energy and communication industries.

Zeus

Zeus specializes in polymer-reinforced optical fiber and high-temperature sheathing products. They offer a variety of polymers including PEEK, PTFE, PFA, ETFE, PVDF, and FEP, designed to provide mechanical strength, chemical resistance, abrasion resistance, and high-temperature performance. Zeus works closely with OEMs, sensor manufacturers, and cable producers to develop customized solutions for extreme environments, ensuring fiber integrity in demanding applications.

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Maillefer

Maillefer focuses on fiber optic cable sheathing extrusion technology, providing high-quality jacketing materials for loose tube fiber optic cables. Their solutions allow the use of a large variety of plastic materials and are designed to meet mechanical property requirements for different cable types, including armoring and strength members. Maillefer supports global delivery and technical assistance to optimize production line performance.

ZM

S MaterialZMS Material supplies LSZH (Low Smoke Zero Halogen) cable jacketing compounds, which are halogen-free, flame-retardant, and UV-resistant. Their materials offer high mechanical strength, flexibility, and weather resistance, suitable for both indoor and outdoor fiber optic cable applications.

ZM

S provides customized solutions compliant with international standards such as IEC 60754 and EN 50267, ensuring safety and durability in communication and control cables.

Summary

For high-density optical cable sheathing, these manufacturers provide a range of solutions: Borealis: High-density polyethylene compounds for robust jacketing. Zeus: Advanced polymer sheathing for extreme environments. Maillefer: Extrusion technology for high-quality fiber optic jackets.

ZM

S Material: LSZH compounds with flame retardancy and UV resistance. These companies are suitable for sourcing durable, high-performance sheathing materials for fiber optic cables in various industrial and environmental conditions.

Article Content

Fiber Optic Sheathing | Suppliers

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fiber optic cable production lines and equipment

Nextrom OFC 60 jacketing line is designed for sheathing of fiber optic cables, including different kinds of cable types such as direct buried, duct and aerial cable designs. Proven and reliable technology

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Polymer Solutions for the Fiber Optic Industry | Zeus

Zeus manufactures polymer reinforced optical fiber and high-temperature sheathing products to support the latest fiber optic technology. We offer a wide range of fiber coating diameters and sheathing

HDPE Optical Cable Sheath Material | High Strength

Our engineers work closely with cable manufacturers to optimize material performance in real production environments. HDPE sheath material for optical

Fiber Optic Cable Sheathing

They are manufactured according to original Maillefer drawings, tested and checked with high quality criteria. We deliver them to you worldwide from our two main logistics centers in Switzerland and

Optical Cable Extrusion Line

Produces black high-density polyethylene sheaths for outdoor cables used in direct burial, aerial, and duct installations. Often requires two layers: inner sheath and outer sheath, potentially with an armor

Cable Sheath Types Explained: LSZH vs HDPE vs LDPE

Understand the differences between LSZH, HDPE, and LDPE cable sheaths and where each is used in FTTH.

Top 10 Companies in the Polyethylene Sheath Material Industry (2025 ...

This analysis examines the Top 10 Polyethylene Sheath Material Producers developing advanced formulations that withstand extreme environments while meeting evolving industry standards.

fiber-optic-heat-shrink-tubing-ik10-manufacturer

ETK Kablo is a leading Turkish manufacturer of fiber optic cables and low-voltage communication cables, supplying high-quality solutions to more than 120 countries worldwide.

latvian-explosion-proof-logging-optical-cable-brand

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Fiber Optic Cable Components & Materials: Complete

Explore the 5 key fiber optic cable components and materials used in modern networks. Learn how glass, coatings, and strength members affect

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Connectors, Cables, Optics, RF, Silicon to Silicon

Samtec is the service leader in the electronic interconnect industry and a global manufacturer of Connectors, Cables, Optics and RF Systems, with full channel

GYXTW Fiber Optic Cable (Aerial and Duct) Prices

Unitube Light Armored GYXTW is an outdoor use optical fiber cable suitable for duct and aerial applications. We supply GYXTW from 2 fiber cores to 24 fiber cores. Both single mode type and

All Dielectric Self Supporting Fibre Cable(ADSS)

ADSS cable''s full name is All Dielectric Self Supporting Cable, which is also called non-metallic all-dielectric self-supporting fiber optic cable. It is widely used in power communication systems for its

Fiber Optic Cable Types: Single-Mode, Multimode, and

Discover fiber optic cable types, including single-mode (OS1, OS2) and multimode (OM1, OM2, OM3, OM4, OM5), indoor/outdoor variants, and how

How To Choose Fiber Cable Outer Sheath Materials?

Some materials, like HDPE, offer excellent long-term stability and are less likely to degrade over time. Summary of Common Sheath Materials: Polyethylene (PE): Durable, weather

6 Fiber Cable Outer Sheath Materials and How To Choose?

Choose Fiber Cable Outer Sheath Application Environment Indoor fibe optic cables can be sheathed with PVC, and outdoor fiber optic cables can be sheathed with PE. When flame

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