

Special material for PE optical cable sheathing



Overview

Low Smoke Zero Halogen material is produced from PE- copolymers and silicon elastomer with chalk as fire retardant filler. This sheathing compound is used for cables that are installed as indoor/outdoor cables, due to its very low water absorption. Our Polyethylene (PE) compounds are versatile materials used extensively in cable sheathing applications, offering varying degrees of protection and performance depending on the specific formulation. As the first line of defense for cables, it can effectively resist external factors such as moisture. Fiber optic cables are designed to provide high-speed, no-signal-loss, and EMI-free communication in telecommunication, powergrid, datacenter, broadband, and industrial applications. Each optical cable is constructed using a precise combination of optical fibers, strength members, buffer tubes. PE virgin sheathing material is made of virgin high molecular polyethylene as the main raw material, adding various additives, modified by blending, extruded and granulated by twin-screw extruder. The performance indexes can reach the standard of GB/T15065-2009 and YD/T 1485-2006.



Article Content

Tipos de cubiertas en Cables de Fibra Optica | KeyFibre

So far there are 6 types of sheathing for fibre optic cables, these are PE (Polyethylene), LSZH (Zero halogen compound), PVC (Polyvinyl chloride), PUR

Development of flame retardant and fire-resistant optical cable based ...

Proceeding flame retardant and fire-resistant test, LOI of ceramic sheathing materials and temperature index of cable according to EN ISO 4589 are up respectively to 40% and 370°C. Light transmittance

Sheathing materials for coaxial cables | Koax24

PE sheath: PE = Polyethylene Coaxial cables with a PE sheath are very tough and hardly absorb any moisture. Therefore, they are weather-resistant and suitable for outdoor use. PE also provides good

Optical Fiber Cable Sheath & Fire Rating Guide

Learn how to choose the right optical fiber cable sheath and understand fire ratings for optimal data center safety and performance.

3 Fiber Optic Cable Sheathing Requirements

According to different laying methods, 3 requirement of fiber optic cable sheathing must be considered in manufacturing, to protect optical fibers under different conditions.

Low-shrinkage polyethylene optical cable sheath material, preparation ...

In order to overcome at least one defect of the above-mentioned prior art, the present invention provides a low-shrinkage polyethylene optical cable sheath material, and the sheath...

Cable Compounds | Shiva Polymers

Our HDPE-OFC compound for jacketing of optical fibre cable is widely appreciated because of its unmatched quality and meeting the stringent requirements for optical fibre cables" sheathing and

Polyethylene (PE) optical cable sheath material: performance

Polyethylene (PE) optical cable sheath material is an outer protective material designed for optical fiber cables, with excellent mechanical strength, weather resistance and insulation properties.

Cables and Wires Insulation and Sheath Material Characteristics

In special applications, radiation resistance and fire protection requirements such as flame resistance and smoke propagation are also required. Selecting the optimum combination of materials SAB

Polymeric materials for cables insulation and sheath

There are many different polymeric materials used today to manufacture the vast array of electric cables available in the marketplace.

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

Fiber Optic Cable Jacket Materials: A Comprehensive Review of ...

Explore the importance of fiber optic cable jackets and their role in protecting delicate fibers for high-speed data transmission. Learn about various jacket materials like PVC, PE, TPE, and

Cable Jacket Material: How to Choose

Cable Jacket Material Comparison Both network cables and fiber optic cables have different cable jackets to choose from. Each type of sheath has

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. Learn more today.

Cable Sheath Types Explained: LSZH Vs HDPE Vs LDPE

Understanding Cable Sheath: LSZH vs HDPE vs LDPE In FTTH and FTTx networks, cable sheath material is often treated as a secondary specification. Many procurement decisions

VDE 0473-811-1-4:2002*DIN EN 60811-1-4:2002

IEC 60811-1-1 Common test methods for insulating and sheathing materials of electric cables and optical cables - Part 1-1: Methods for general application; Measurement of thickness and

Recycled PE Sheathing Compound LLDPE

PE virgin compound for sheath material of optical cable, Used for the outer sheath of high standard and high requirement optical cable, it has the advantages of stable

PE Optical Fiber Cable Sheathing Material 006 – zaicci

Polyethylene (PE) optical cable sheath material is a high-performance protective layer material designed specifically for optical fiber cables. It has excellent mechanical strength, weather resistance and

Durable Low-Density Polyethylene Sheath Material (LDPE)

Suitable for sheathing of optical cables and wires and cables, the performance of KRD 2010 meets the relevant requirements of GB/T 15065-2009. The best

OUTER JACKET MATERIALS

Please refer to the Product Specifications sections located in the OCC Product Catalog for the various cable types and fiber counts available with the various jacket materials, or call OCC Sales to discuss

Cable Sheathing Material Guide

The sheathing material provides oil and chemical resistance, as well as strength and flexibility at lower temperatures. Nylon Nylon is an incredibly

PE Compounds Sheathing for Power, Telecom & Optical Cables

Our Polyethylene (PE) compounds are versatile materials used extensively in cable sheathing applications, offering varying degrees of protection and performance depending on the specific

Cable Jacketing

Our cutting-edge Borstar® technology enables us to offer a wide range of linear low, medium and high-density polyethylene (PE) compounds suitable for fiber optic

What Are the Raw Materials of Fiber Optic Cables? Full

A complete guide to the raw materials of fiber optic cables—optical fibers, PBT tubes, FRP rods, aramid yarn, steel armoring, HDPE/LSZH jackets,

PE Compounds Sheathing for Power, Telecom & Optical Cables

Explore high-performance PE compounds for cable sheathing. Offering ESCR, heat deformation & track resistance for power, telecom & optical fibre cables.

Types of Insulation and Sheathing Materials

Discover the various types of cable insulation and sheathing materials to help you choose the right options for your needs.

Indoor optical fiber cable outer sheath material

Indoor fiber optic cables are an essential component of modern telecommunications infrastructure, providing fast and reliable data transmission within buildings and other indoor

CABLE PROTECTION AND SHEATHING

Low Smoke Zero Halogen material is produced from PE- copolymers and silicon elastomer with chalk as fire retardant filler. This sheathing compound is used for cables that are installed as indoor/outdoor

Fiber optic cable outer sheath material

Fiber optic cable with sleeve material. Select fiber optic cables of different materials according to the layout area Generally speaking, Plenum fiber optic cables are suitable for use in

Contact Us

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