

# Fiber Optic Cable Filler Patent





## Overview

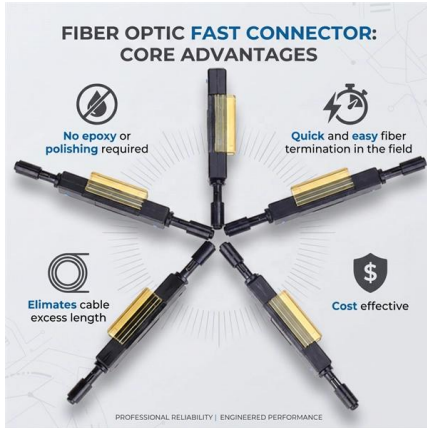
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The present invention relates to optical fiber communication cables, and more particularly, relates to foamed polyvinylidene fluoride polymer filler rods used in optical fiber cable constructions. Search within the title, abstract, claims, or full patent document: You can restrict your search to a specific field using field names. , exposure to humidity/moisture, physical stress), the buffer tube is filled with a filling composition which surrounds the optical fibers. The filler rod comprises an elongated rod extruded from a polypropylene homopolymer, a polypropylene-polyethylene copolymer (i-PP).



## Fiber Optic Cable Filler Patent

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### Direct Buried Fiber Optic Cables , Optical

Loose Tube Cables Loose tube fiber optic cables are high-density, lightweight, and durable for easy handling and installations. They contain buffer tubes with either

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### FILLER TUBES FOR OPTICAL COMMUNICATION CABLE

The disclosure relates generally to materials for the manufacture of fiber optic communication cables and more specifically to the use of non-solid filler tubes in the construction of

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### Polypropylene filler rods for optical fiber communications cables

A filler rod for occupying space in a stranded optical fiber communications cable having at least one buffer tube containing at least one optical fiber is disclosed. The filler rod comprises an elongated rod

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### 20220339925 FOAMED FILLER ROD IN OPTICAL FIBER CABLES

The present invention relates to optical fiber communication cables, and more particularly, relates to foamed polyvinylidene fluoride polymer filler rods used in optical fiber cable constructions. The



### EP0947868A3

A filler rod (24a-24c) for occupying space in a stranded optical fiber communications cable (10) having at least one buffer tube (12a-12c) containing at least one optical fiber (14) is disclosed. The filler rod

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### Search for: nanodiamond fiber optic temperature monitoring catheter

Abstract Distributed acoustic sensing (DAS) on submarine fiber-optic cables is providing new observational insights into solid Earth processes and ocean dynamics. However, the availability of

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### CABLE WITH INTERSTITIAL FILLERS AND EDGE RIBBONS

Field of the Invention. The present disclosure relates to the field of optical fibre and, in particular, relates to an optical fibre cable with interstitial fillers. Description of Prior Art Optical fibre

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### **US9411116B2**

The present disclosure provides optical fiber cable having one or more filler rods. The filler rods have higher melting temperature than conventional filler rods. For some embodiments, the filler rods are

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### **WO2016171970A1**

An optical communication cable includes a central strength member, at least one optical fiber, a buffer tube surrounding the at least one optical fiber; and at least one non-solid filler tube defining a cavity,

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### **Fiber-optic cable and method of manufacture**

Fiber-optic cable and method of manufacture  
Abstract A fiber-optic cable with low buffer insertion force, significant kink resistance, and improved thermal performance incorporating a dual layer buffer of a

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### **Fiber optic cable with cellulosic filler elements**

US-2014023330-A1 chemical patent summary.  
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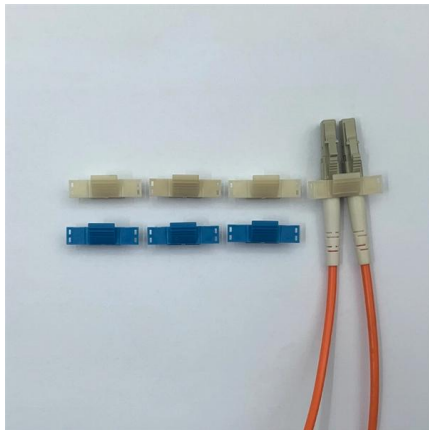




**Polypropylene filler rods for optical fiber communications cables**

United States Patent 6210802. A filler rod for occupying space in a stranded optical fiber communications cable having at least one buffer tube containing at least one optical fiber is disclosed.

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**FREEDM® One Tight-Buffered Cable, Plenum 24 F,**

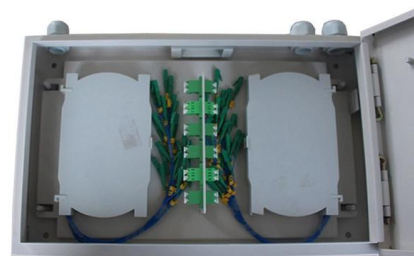
Corning FREEDM® One plenum cables are flame-retardant, UV-resistant, indoor/outdoor cables designed for aerial and duct applications with no need for a

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**Foamed filler rod in optical fiber cables**

The present invention relates to optical fiber communication cables, and more particularly, relates to foamed polyvinylidene fluoride polymer filler rods used in optical fiber cable constructions. The

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**Thixotropic gel and its use as a filling compound for fibre-optic cables**

Firstly, the gel must also be suitable as a filling compound for fibre-optic cables in regions with cold winters. And secondly, it must be possible for it to be processed problem-free at a high temperature.

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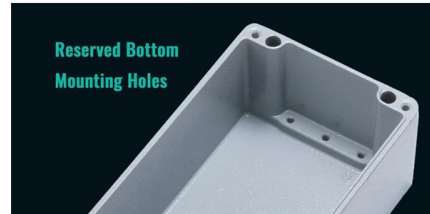
## CHEMICAL COMPOSITION OF FILLER RODS FOR USE IN OPTICAL FIBER CABLES

The filler rod also permits the manufacturing process for making such loose tube cables to remain substantially unchanged, whether making a low or high fiber count optical fiber cable.

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IP65 / IP67 Sealing Design



Reserved Bottom Mounting Holes



## Cable with interstitial fillers and edge ribbons

The optical fibre cable 900 includes the plurality of interstitial fillers 414 similar to the interstitial fillers in the optical fibre cables 100, 700, 800. In addition, a number of the plurality of interstitial fillers 414

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## Top Fiber Optic Cable Manufacturing Companies in Sri Lanka

Discover all relevant Fiber Optic Cable Manufacturing Companies in Sri Lanka, including Sierra Cables PLC and DCL ENGINEERING (PRIVATE) LIMITED.

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## US-20220339925-A1

The present invention relates to optical fiber communication cables, and more particularly, relates to foamed polyvinylidene fluoride polymer filler rods used in optical fiber cable constructions.

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## CHEMICAL COMPOSITION OF FILLER RODS FOR USE IN

Abstract: The present disclosure provides filler rods that have higher melting temperature than the conventional filler rods and methods of making the filler rods. For some embodiments, the filler rod is

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## U.S. Patent Application for FIBER OPTIC CABLE WITH

In this configuration, the cable can pass typical flame testing while being manufactured at a lower cost than current cable.

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## Crush-Proof Stainless Steel Micro-Armored Fiber Optic

Learn more about our crush-proof stainless steel micro-armor fiber optic cables, the smallest and most flexible in the industry.

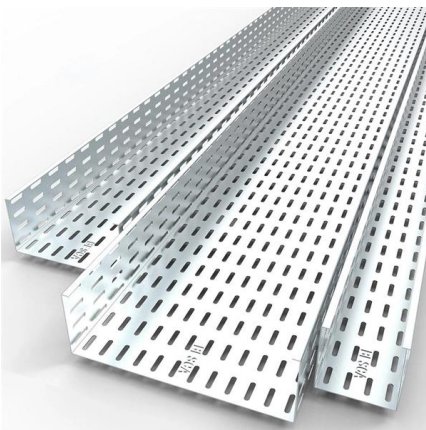
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## 20220339925 FOAMED FILLER ROD IN OPTICAL FIBER CABLES

The present invention relates to optical fiber communication cables, and more particularly, relates to foamed polyvinylidene fluoride polymer filler rods used in optical fiber cable constructions.

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## US6901191B2

The fiber optic cable may exclude a grease or a grease-like composition being in contact with the at least one bundle for filling interstices of the cable thereby blocking water from flowing through the

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### **Thixotropic gel, and its use as a filler for a fibre-optical cable**

A thixotropic gel based on a synthetic hydrocarbon oil and a hydrophobic thixotropic agent is described. The synthetic hydrocarbon oil comprises a hydrogenated polyalkylene, i.e. a polymer of 1-octene, 1

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### **FILLING COMPOSITION FOR OPTICAL FIBER CABLES**

Such a filling composition is a fluid which flows easily around the optical fibers to completely fill the buffer tube and can be readily pumped into the buffer tube during manufacture of an optical fiber cable.

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### **FILLING COMPOSITION FOR OPTICAL FIBER CABLES**

To protect the optical fibers from damage (e.g., exposure to humidity/moisture, physical stress), the buffer tube is filled with a filling composition which surrounds the optical fibers.

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## Optical fiber cable comprising cable fill composition

The present invention relates to an optical fiber cable comprising a cable fill composition, and to the use of a cable fill composition in optical fiber cables. An optical

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