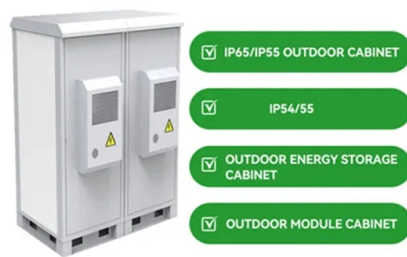


High Temperature Resistant Single-Mode Fiber Optic Manufacturer



Article Overview

Leading manufacturers of high-temperature resistant single-mode fiber optics include Corning, AFL, WEINERT Industries, Fujikura, and Hengtong Group, offering fibers with specialized coatings and temperature ratings up to 500°C.

Key Manufacturers and Products

Corning produces high-temperature fibers designed for single-mode and multimode applications, featuring optional hermetic carbon layers and high-temperature acrylate coatings. These fibers provide improved fatigue resistance, high usable strength, and resistance to hydrogen permeation, suitable for harsh environments . AFL offers Verrillon® harsh environment fibers, available with polyimide, silicone, silicone-PFA, and high-temperature acrylate coatings. Their single-mode fibers can operate in temperatures up to 500°C, with hermetic coatings that prevent hydrogen, moisture, and acid ingress. AFL also provides custom waveguide designs, including pure silica core and bend-insensitive fibers, widely used in downhole and industrial applications . WEINERT Industries AG manufactures fused silica-based fibers with heat-resistant coatings, supporting temperature ranges from -190°C to +385°C. Their German-engineered fibers are suitable for high-temperature industrial and scientific applications . Fujikura specializes in specialty single-mode fibers, including heat-resistant fibers coated with high-temperature acrylate. Their Thermally-diffused Expanded Core (TEC) fibers enhance mode field diameter during fusion splicing and are designed for demanding optical applications requiring thermal stability . Hengtong Group is a global optical fiber manufacturer offering a wide range of fiber...

Article Content

Super High Temperature Resistant Optical Fibre

Super High Temperature Resistant Optical Fibre Optical fibre is not only widely used in conventional communication

Optical fiber assemblies for high temperature environments

Optical fiber assemblies resistant to extreme temperatures Thanks to its know-how and expertise, SEDI

Products

High-quality preforms form the basis for manufacturing and deploying high-performance special and standard fibers. Thanks to our

Fiber Optic Cable

Fiber Cable Belden's extensive line of indoor and outdoor cable products is offered in tight buffer and loose tube designs. Armored,

High-Temperature Fiber Optic Cable | Suppliers

OEM manufacturer of multimode step-index fibers, fiber bundles, cables, and assemblies made from silica and quartz glass. Offers

HT (260°C) High Temperature Fiber Array | MEISU

MEISU's high temperature resistant fiber array is assembled with fibers of special high-temperature coating and special epoxy, thus

Fiber optic cables for harsh environmental conditions | AFL Global

Harsh environment fiber optic cable - Deploy in industrial facilities, mines, subsea and other environments where extreme conditions

How Can Fiber Optic Cables Withstand Extreme Heat?

In industries like aerospace, oil and gas, and manufacturing, high temperatures can wreak havoc on standard fiber

SPECIALTY AND HARSH ENVIRONMENT FIBER OPTIC CABLE

Specialty Fiber Optic Cable Customers around the world benefit from using AFL fiber optic cable and components for downhole

Singlemode Fibers

Single mode transmission at a range of standard wavelength between 400 nm and 1550 nm All fibers available with 125 µm diameter

High-temperature optical cable

Find your high-temperature optical cable easily amongst the 11 products from the leading brands (Avantes,

Specialty Optical Fibers | Coherent

Distributed sensing fibers for temperature, pressure, flow, acoustics, or strain, that operate even in harsh

Specialty Single-Mode Fiber

Fujikura's TEC fiber features Thermally-diffused Expanded Core technology that expands the mode field diameter during fusion

Worldwide Custom Industrial Optical Fiber Solutions

High-performance optical fiber manufacturer for telecommunications, medical, and aerospace. Explore our

High Temperature Fiber Optic Interconnects | DIAMOND SA

Diamond's Low / High Temperature Interconnects are designed for applications where conventional fiber optic assemblies fail under

10 Best Fiber Optic Manufacturers for 2026

Discover the best fiber optic manufacturers globally, offering cutting-edge multimode and single mode fiber solutions.

Single-Mode Fibre

Produced with over 50 years of optical fibre expertise. Our end-to-end manufacturing process and strict

Single Mode Fibers

Corning's HI series of high-index single mode fibers includes products like HI 780, HI 780C, HI 980, RC HI 980, HI 1060, RC HI 1060,

HT Fiber Device, High Temperature Fiber Optic Sensing System

MEISU developed high-temperature resistant optical devices with SM fiber and PM fiber for fiber sensing system. By applying a

High-Temperature SM Fibers

For demanding applications, Fibercore has developed hermetic carbon coatings that prevent water, acid, and other liquids from

Optical Fiber Sensors for High-Temperature Monitoring: A Review

High-temperature measurements above 1000 °C are critical in harsh environments such as aerospace, metallurgy,

High Temperature Fiber Optics

High temp fiber optics are used where the temperature is too hot for plastic fibers. Popular use in thermal process applications.

High Temp/Harsh Environment Fiber | OEM Optical

Corning's High Temperature Fibers are designed for applications requiring improved fatigue resistance,

Singlemode special optical fibers | WEINERT Industries

WEINERT provides a wide range of Select-Cut-Off fibers and polarization-maintaining singlemode special

Heat-Resistant Thin Optical Fiber for Sensing in High-Temperature ...

The prototype UVSF is a single-mode optical fiber with a pure silica core and a fluorine-doped silica cladding [pure silica core optical

Single-Mode Optical Fiber (SMF)

Draka Single-Mode Fiber (SMF) provides optimum performance in both the 1310 nm and 1550 nm wavelength operation ranges

Specialty Photonics and Custom Fiber Optic Solutions

OFS specialty optical fibers can be customized to meet your desired specifications with state-of-the-art coatings, buffers, and cabling

Optical fibers and modules

Optical fibers are at the heart of everything we do. We embed as many functions as possible directly into the fibers to make systems

High-temperature fibers | WEINERT Industries AG

For use in higher temperature ranges, all optical fibers based on Fused Silica can be optionally equipped

Polyimide-Coated Single Mode Fiber

This Polyimide-Coated Single Mode Fiber has a thin polyimide coating that allows it to operate safely in temperatures up to 250 °C. It

Specialty Optical Fiber

Phillips Medisize Specialty Optical Fiber helps to address unique customer needs with an industry-leading selection of over 500

Single-mode Fibers – Buyer's Guide & Suppliers

This buyer's guide for single-mode fibers provides technical background, comparison of major types, selection criteria, and an

Single-Mode Fibers for Precise Light Transport — FindLight

High-Temperature Polyimide Coated Single-Mode Optical Fibers In environments where durability and reliability are paramount, such

Single Mode Fiber Optic Cable Manufacturers

Proterial Cable America; high quality manufacturer of single mode fiber optic cable - providing cabling

Specialty Single-Mode Fiber

Fujikura offers products that satisfy special requirements that standard single-mode fibers do not fully meet, including Thermally

Harsh Environments fiber optic products | AFL Global

Harsh Environments fiber optic products delivers high-performance engineering, reliability and simplified deployment for critical

High-Temperature SM Fibers

High Temperature single-mode fibers with a carbon, acrylate, or polyimide coating - available at LASER COMPONENTS.

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