

German High Temperature Measurement Optical Cable Company



AI Overview

Germany hosts several specialized manufacturers of high-temperature optical cables for precise temperature measurement, including FOS Inon Optics, WEINERT Industries, Solifos AG, OSSCAD, and FIBERTEC. Key Companies and Offerings

FOS Inon Optics is a family-owned German company based in Niederschelden-Siegen, producing custom fiber optic cables for high-precision applications. They offer temperature-resistant optical fibers suitable for industrial, laser, and analytical applications, emphasizing long service life, reproducible quality, and radiation resistance. WEINERT Industries AG specializes in high-temperature fibers based on fused silica, optionally coated with heat-resistant materials. Their fibers can operate in extreme ranges from $-190\text{ }^{\circ}\text{C}$ to $+385\text{ }^{\circ}\text{C}$, making them suitable for demanding industrial and scientific environments. Solifos AG provides distributed fiber-optic sensing (DFOS) cables for temperature, strain, acoustic, and pressure measurements. Their high-temperature optical cables can withstand up to $600\text{ }^{\circ}\text{C}$, enabling continuous, seamless monitoring in extreme conditions without additional point sensors. OSSCAD offers RTTR cable monitoring systems that integrate optical fibers for distributed temperature sensing (DTS) along power cables. These systems provide high-accuracy, spatially distributed temperature measurements immune to electromagnetic interference, ideal for power network monitoring. FIBERTEC develops and manufactures high-temperature fiber optics for industrial and medical applications. Their products include cold light cables, vacuum sensors, and customized high-temperature fiber solutions, all produced in Germany under DIN ISO 9001:2015 standards.

Applications

These German optical cable manufacturers serve a wide range of applications: Power plants and electrical networks: DTS for hotspot de...

Article Content

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Global technology leader in electrification and automation. ABB helps industries run at high performance, while becoming more efficient, productive and sustainable.

WEINERT Special Cables – The cable you always wished for.

Our specialists are ready to support your engineering process. We are a leading provider of fiber optic cable solutions. Our team consists of outstanding scientists, highly trained engineers and skilled

Temperature Sensing

The measurement device is set up in a remote electrical or operation room. Multi-fiber transmission cables, hosting up to 24 fibers each, guide the optical signals from the sensors to the interrogator.

High-temperature optical cable

Find your high-temperature optical cable easily amongst the 11 products from the leading brands (Avantes, Endevco, Pavone sistemi, ...) on DirectIndustry, the industry specialist for your professional

Fibre-Optic Cable Manufacturing in Germany Industry Analysis, 2026

Expert industry market research on the Fibre-Optic Cable Manufacturing in Germany (2016-2031). Make better business decisions, faster with IBISWorld's industry market research reports, statistics,

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The cables are extremely flexible and provide high mechanical strength as well as excellent aging resistance. They are oil and chemical resistant and offer flame-retardant and low-smoke insulation.

Top 100 Sensor Cable Manufacturers in Germany (2026) | ensun

AP Sensing specializes in advanced distributed fiber optic sensing technology, offering sensor cables that enable precise temperature, strain, and acoustic measurements in harsh environments.

Distributed Fiber Optic Temperature Sensor

Fiber optic sensing cable design offers high reliability, accuracy, and quick update times to ensure 24/7 monitoring of the fiber temperature sensor application with no downtime for maintenance. Watch the

Reliable Electrical Components for Advanced Technologies | TE

TE is a trusted manufacturer and supplier of reliable and rugged electronic components. Known worldwide for its broad portfolio of optimally engineered connectors and sensors, TE enables

Optical fibre cables Germany | B2B companies and suppliers

The headquarters of the ISO 9001 certified company is located in Jena, Germany, the center for pioneering research and development of optical fibers for the photonics industry.

Top Fiber Optic Cable Manufacturing Companies in Germany

Additionally, as global markets shift towards digitalization, Germany's strategic position in the EU offers companies access to a wider customer base and potential partnerships. Understanding these

2024 Top12 Fiber Optic Cable Manufacturers in Germany

Germany is renowned for its advanced engineering and innovative manufacturing capabilities. This extends into the field of fiber optic cables, where German manufacturers are

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Sensor cables with state-of-the-art fiber optic sensors | Solifos AG

Precise monitoring of temperature over long distance in structures and industrial processes. Solifos' fiber optic sensor cables are suitable for measure temperatures in harsh environments where other

High-temperature fibers | WEINERT Industries AG

For use in higher temperature ranges, all optical fibers based on Fused Silica can be optionally equipped with heat-resistant coating materials. This extends the potential field of application to a range from

ITC Thermo Cable GmbH

ITC Thermo Cable high-temperature cables are characterised by a high degree of stability and long lifecycles – even under the toughest conditions. As these cables are often only required in small

Optical Fiber Sensors for High-Temperature Monitoring: A Review

High-temperature measurements above 1000 °C are critical in harsh environments such as aerospace, metallurgy, fossil fuel, and power production. Fiber-optic high-temperature sensors are gradually

Sensor cables

Alongside their use in data transmission, optical fibers can also be used for measuring temperature, light, breakage, expansion, pressure, and oscillation. This functionality offers effective monitoring of

Photovoltaic system

Weatherproof connectors on a solar panel cable A solar cable is the interconnection cable used in photovoltaic power generation. Solar cables interconnect solar

Photovoltaic system

Diagram of the possible components of a photovoltaic system A photovoltaic system converts the Sun's radiation, in the form of light, into usable electricity. It

Optical fibers and cables // WEINERT Industries AG

Optical fibers & cables, highest manufacturing quality, tailored to your requirements, special and individual productions up to high volume series.

High-temperature fibers | WEINERT Industries AG

WEINERT Industries offers everything related to topic High-temperature fibers. Benefit from our know-how of German engineering expertise. Learn more now!

TST cable GaAs fiber optic temperature measurement system:

The fiber optic temperature measurement system of gallium arsenide (GaAs) has become the world's leading high-precision online temperature monitoring solution, especially in

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://umele-pestovani.eu>

Email: info@umele-pestovani.eu

Phone: +49 152 287 6349

Address: Neue Mainzer Straße 66-68, 60311 Frankfurt am Main, Germany

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