

Western Europe Downhole Temperature Measurement Optical Cable Price Inquiry



Overview

The cable is customized to the customer's specifications in order to maximize performance at the best possible price.

Key Takeaways

Downhole temperature measurement optical cables in Western Europe vary in price depending on specifications, materials, and supplier, with quotes typically obtained directly from manufacturers or distributors.

- Cable Types and Specifications
 - Distributed Fiber Optic Sensing (DFOS) Cables
 - Used for temperature, acoustic, and strain measurements along the entire well length.
 - Enable real-time monitoring and 24/7 gapless data acquisition.
 - Examples: AP Sensing's DTS/DTSS solutions, suitable for well integrity, production monitoring, and reservoir optimization .
- Traditional Downhole Cables
 - Designed for land-based and offshore wells with temperatures up to 150°C.
 - Incorporate stainless steel tubes and hydrogen scavenging materials to resist harsh downhole conditions.
 - Customizable alloys and encapsulations allow optimization for temperature, pressure, and acoustic sensing .

- Double-Layer Seamless Steel Tube Optical Cables
- Known as Tube-in-Tube or PSC fiber cables, engineered for extreme high-temperature and acidic environments.
- Features dual metal barriers and pure silica core fibers to prevent hydrogen-induced signal attenuation.
- Available in 316L stainless steel or Alloy 825 for ultra-acidic geothermal or oil wells .

Factors Affecting Price

- Temperature and pressure ratings: Higher tolerance increases material and manufacturing costs.
- Fiber type and configuration: Hydrogen-resistant PSC fibers and multi-fiber designs are more expensive.
- Cable length and installation complexity: Longer wells or offshore deployments require more robust solutions.
- Customization: Alloy selection, encapsulation, and additional protective layers impact pricing.
- Supplier and service: Companies like AP Sensing, AFL, and OFSCN provide tailored solutions with technical support, which can influence cost .

Market Trends

- Integration of DTS systems for real-time monitoring is increasing demand.
- Advanced materials and miniaturized sensors improve performance in geothermal and oil/gas wells.
- IoT-enabled optical cables allow cloud-based analytics and predictive maintenance, adding value but potentially increasing cost .

Obtaining Pricing in Western Europe

- Direct inquiry with suppliers (AP Sensing, AFL, OFSCN) is recommended for accurate quotes.
- CRU Group provides market price assessments for optical fiber, which can guide budgeting, though detailed downhole cable pricing may require subscription or consultation .
- Regional distributors or local offices in Western Europe can provide customized pricing based on well specifications and project requirements. Summary: Prices for downhole temperature measurement optical cables in Western Europe are highly variable and depend on cable type, materials, temperature rating, and customization. For precise pricing, contacting suppliers directly with project specifications is the most reliable approach.

Article Content

Wire & Cable Prices

CRU provides comprehensive, accurate and up-to-date price assessments and research reports for bare optical fibre

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By pairing fiber optics with gauge sensing technology, we give you a more complete picture

Three-layer Seamless Steel Tube Optical Cable

The OFSCN® Triple-Layer Downhole High-Temperature Fiber Optic Cable is the flagship solution for extreme sensing

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Fiber optic cables are used for a wide range of downhole applications, especially for distributed temperature sensing (DTS) but are

Market Analysis

Pricing for optical sensing downhole cable is typically quoted on a per-meter or per-foot basis and is highly dependent on the

Double-layer Seamless Steel Tube Optical Cable

The OFSCN® Double-Layer High-Temperature Downhole Fiber Optic Cable is engineered for the most demanding

Permanent fiber-optic cable

Permanent downhole fiber-optic cables are critical infrastructure in wellbore monitoring systems, ensuring reliable transmission of

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The cable is customized to the customer's specifications in order to maximize performance at the best possible price. AFL's

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Fibercore offers a range of designs for downhole fiber optic cable to meet the specific requirements of your oil or gas well. These

Metrol Products

Downhole products providing accurate downhole data on flow assurance, pressure and temperature in hostile environments.

Downhole Logging

Wireline cables for downhole logging applications, delivering reliable power and data in high-pressure, high

Fiber optics

Our proven fiber optics technologies also support point measurement pressure/temperature gauges to monitor downhole pressure

Downhole fiber optic temperature-pressure innovative measuring system ...

A simple wireline downhole T/P measuring tool based on fiber optic FBG sensor was developed. In order to achieve

Fiber Optic Sensing for Downhole Monitoring in Oil & Gas

Explore how fiber optic sensing is transforming downhole monitoring for

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Contact us directly to hear from one of our experts, or use our map to find and locate our closest location to you.

Downhole Optical Cable

Downhole fiber optic cables are engineered for extreme underground environments, such as oil wells, mines, and geothermal

Fibre optic seismic sensor for down-well monitoring in the oil industry

The HD-DAS uses only one fiber cable as the sensing unit, which greatly simplify the installation procedure and is ideal

Gore® High Density Thermocouple Cable: Petrospec Engineering

The GORE® High Density Sensor Cable (HDSC) is based on a thin, advanced high temperature polymeric insulation material and

Well Inspection Cameras

Well cameras are the tool of choice to perform remote visual inspection and downhole surveys of vertical

GEOP 150 | Real-Time Downhole Pressure & Temperature Gauge

The IEC 61326 Certified GEOP 150 is an advanced digital gauge that is designed for artificial lift systems and observation wells that

Hot or not; monitoring subsurface temperatures at the Glasgow

The Glasgow Observatory has fibre-optic distributed temperature sensing (FO-DTS) cables installed in the five mine

Downhole Connectors | TE Connectivity

Our range of SEACON products includes a full system of downhole connectivity: downhole electrical inserts and boots, dry-mate

Fiber optic pressure and temperature monitoring system for downhole ...

A Pressure and temperature (P&T) monitoring system based on fiber Bragg grating (FBG) and extrinsic Fabry-Perot

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PHOTONICS APPLIED: OPTICAL SENSING: Downhole sensing puts

Unfortunately, the downhole environment is not kind to optics: Extremely high temperatures and pressures along with

Downhole Gauges | GEO PSI Real-Time Downhole Instrumentation

Our gauges are made of the highest quality materials and components to achieve the highest performance and

Downhole Sensor Cable

TEC cables manufactured by ESP Cable Solutions Co., Limited are used in the oil & gas industry. It uses welded

Electrical Downhole Cable

Electrical Downhole Cable Weatherford's electrical downhole cable provides a reliable pathway between the in-well pressure and

Optoelectric permanent downhole cable

The SLB optoelectric permanent downhole cable encapsulates an electrical conductor and a metal tube with up to three optical

An Industry Overview of Downhole Monitoring Using Distributed ...

Abstract. Distributed Temperature Sensing (DTS) system using optical fiber has been deployed for downhole

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

