Price quote for Spanish temperature-sensing optical cable system



Overview

Sensing Cable Market in Spain | Report Raw cable pricing ranges from €8-€25 per meter for standard electrical sensing cables to €35-€120 per meter for spec.

Key Takeaways

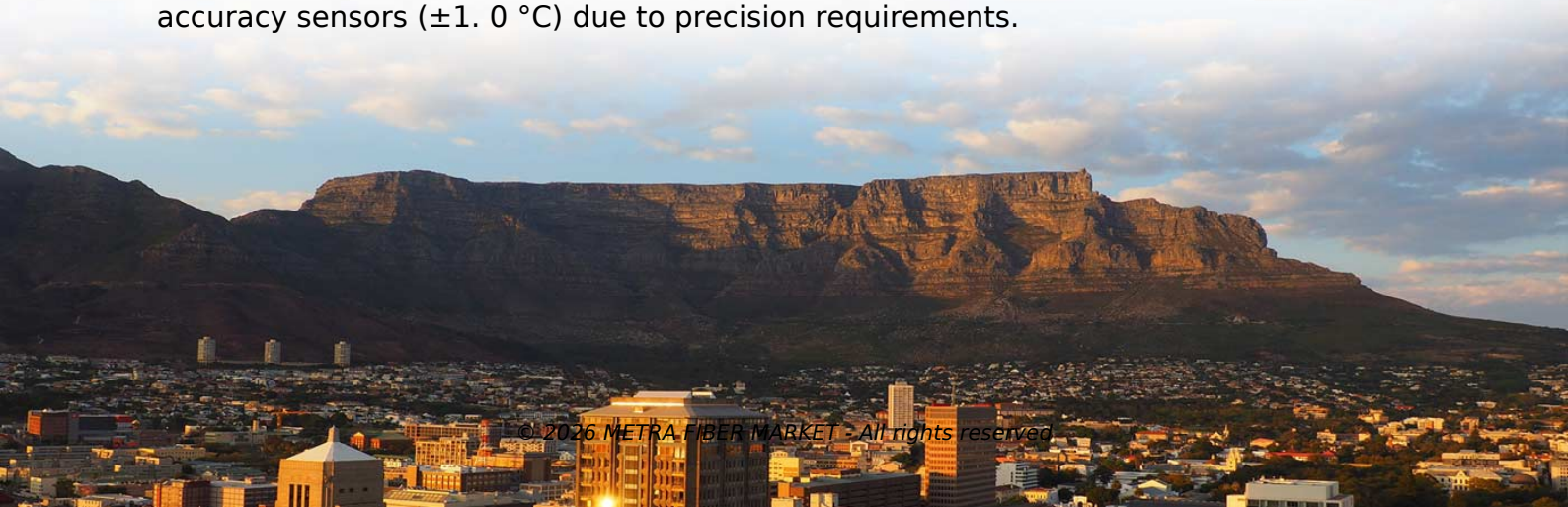
Fiber optic temperature sensing cables in Spain typically form part of high-end monitoring systems, with costs influenced by accuracy, coating, and system integration, often ranging from several hundred to several thousand euros per complete system.

Market Overview

The Spanish sensing cable market is projected at €85–€105 million in 2026, with fiber optic sensing cables representing 55–60% of this value. Spain relies heavily on imports for specialty sensing cables, sourcing 70–80% of raw components from Germany, France, and China, which affects pricing. Integration with cloud-based analytics and interrogator electronics can increase system prices by 8–12%.

Factors Affecting Price

Accuracy: High-accuracy sensors (±0. 1 °C) can cost 3–5 times more than standard accuracy sensors (±1. 0 °C) due to precision requirements.



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Coating and Armoring: Polyimide or metal coatings for high-temperature or cryogenic environments increase cost compared to standard polyacrylate coatings. Cable Configuration: Options include metal-tubing, tube-in-tube, metal-free, or armored stainless steel, each affecting durability and price. System Integration: Complete Distributed Temperature Sensing (DTS) systems include connectors, installation materials, and software licenses, which significantly raise total cost beyond the raw cable.

Application Environment: Harsh industrial, cryogenic, or fire detection applications require specialized cables, increasing price.

Supplier Landscape

Spain has a robust network of 492 optical cable suppliers, with 255 active exporters between June 2024 and May 2025. Leading brands for temperature sensing cables include Brugg, Hot Disk, and TEMPSENS, offering armored, fast-response, and polyimide-coated options suitable for industrial and critical infrastructure monitoring.

Price Range Estimates

While exact per-meter prices vary by configuration and system requirements, individual high-accuracy fiber optic temperature sensors can cost several hundred euros, and complete DTS systems with cables, interrogators, and software can reach several thousand euros per installation. Bulk procurement or standard industrial-grade cables may reduce per-unit costs, but specialized armored or cryogenic cables remain premium-priced. In summary, the price of Spanish temperature sensing optical cables depends on accuracy, coating, armoring, and system integration, with high-end systems costing significantly more than basic industrial-grade cables, reflecting both the technology and import-dependent supply chain.

Article Content

Sensing Cable Market in Spain | Report

Raw cable pricing ranges from €8-€25 per meter for standard electrical sensing cables to €35-€120 per meter for specialty fiber optic sensing cables, depending on fiber count, jacketing

Fiber Optic Sensor Cables for Advanced Monitoring | AP Sensing

AP Sensing''s fiber optic sensor cables enable real-time, precise monitoring of temperature, strain & acoustics in harsh environments with minimal maintenance.

Temperature sensing cable

*Prices are pre-tax. They exclude delivery charges and customs duties and do not include additional charges for installation or activation options. Prices are

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Linear Heat Detection Sensor Cable

Linear Heat Detection Sensor Cable Luna provides the appropriate sensor cable for every application and when working with us we will help you pinpoint the exact cable design and installation

Thermal Engineering Solutions And Specialised Cables Manufacturer

We are a thermal engineering and specialized cable manufacturer established in 1990. Our products include contact and infrared temperature sensors, a range of specialised cables and conductors,

Distributed Temperature Sensing (DTS) | AP Sensing

Distributed Temperature Sensing (DTS) systems provide temperature information for accurate thermal monitoring, fire detection, and condition assessment by utilizing standard fiber optic cables. These

OSENSA Innovations | Fiber Optic Temperature Sensing & Partial ...

Leading developer of fiber optic temperature sensing and partial discharge monitoring solutions for switchgear, data centers, energy, and life sciences, delivering critical insights for electrical

Distributed Sensing Cables for DAS & DTS

Durable fiber optic cables for distributed sensing. Compatible with DAS & DTS systems, ideal for perimeter, pipeline, and industrial monitoring.

Distributed Temperature Sensing (DTS) | NKT

Unlock maximum performance and early detection of potential issues with our temperature sensing technology. DTS utilizes optical fiber to gauge temperature along the cable real-time, providing

Armored Fibre Optic Cable for Distributed Temperature Sensing

The temperature-sensing optical cable is placed inside a stainless steel threaded tube, with Kevlar tightly wrapped and stainless steel wire tightly woven outside the threaded tube for reinforcement.

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Sensors, machine vision systems, measuring instruments, barcode readers, PLCs and other factory automation sensor products. KEYENCE America.

Fiber Optic Sensing

VIAVI provides Distributed Temperature Sensing (DTS), simultaneous Distributed Temperature and Strain Sensing (DTSS) and Distributed Acoustic Sensing (DAS) solutions to measure optical loss,

Fiber Optic Sensor | Distributed Temperature Sensing

Distributed Temperature Sensing (DTS) systems are a game-changing technology for continuous temperature measurement along the length of fiber optic cables.

Distributed Temperature Sensing (DTS) Brochure

The VIAVI Distributed Temperature Sensing (DTS) solution is based on Raman scattering technology. Measure the temperature along a fiber optic cable or optical loss/attenuation, bend detection and

Dts Distributed Temperature Sensing Armored Fiber Optic Cable

Dts Distributed Temperature Sensing Armored Fiber Optic Cable, Find Details and Price about Armored Measuring Temperature Cable Dts Distributed Optical Fiber from Dts Distributed Temperature

Raman Optical Fiber Distributed Temperature Sensor

A Distributed Temperature Sensing (DTS) system is ideal for fire detection and monitoring long-distance temperature profiles. DTS is a linear system capable of detecting temperature over the entire length

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