

Price of Professional Temperature Measuring Optical Cable in Singapore



AI Overview

Professional fiber optic temperature measuring systems in Singapore typically require direct quotes from suppliers, as prices vary based on system specifications, channel count, and measurement range.

Overview of Fiber Optic Temperature Measurement Systems

Professional temperature measuring optical cables, often part of Distributed Temperature Sensing (DTS) systems, are used for continuous monitoring along pipelines, power cables, and other critical infrastructure. These systems provide high-accuracy temperature readings with resolutions as fine as 0.1°C and can detect anomalies along distances up to 10 km. They are designed to operate in harsh environments, with temperature ranges from -40°C to $+120^{\circ}\text{C}$ and ambient operating conditions from -10°C to $+50^{\circ}\text{C}$.

Key Features Affecting Price

- Channel Count:** Systems may have 4, 8, or 16 channels, with higher channel counts increasing cost.
- Measurement Distance:** Single-channel measurements can cover 5 km to 10 km; longer distances typically raise the price.
- Accuracy and Resolution:** High-precision systems with 0.1°C resolution are more expensive than standard models.
- Connectivity and Control:** Systems with multiple relays and versatile interfaces (RS485, RS232, RJ45) may cost more.
- Industrial Grade:** Fiber optic sensors are resistant to electromagnetic interference, making them suitable for industrial applications, which also affects pricing.

How to Obtain Pricing

Since professional DTS systems and fiber optic temperature sensors are customized and industrial-grade, prices are generally not listed online. To get accurate pricing in Singapore:

- Contact local distributors such as Power Technologies, element14 Singapore, or CETM eStore for quotes.
- Provide details about your required measurement distance, channel count, and environmental conditions.
- Request installation and support options, as th...

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Distributed Temperature Sensing Fiber Optic Cable (DTS)

The DTS Fiber Optic Cable enables accurate monitoring of temperature changes in the pipelines, making it possible to detect and pinpoint areas where leaks occur.

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