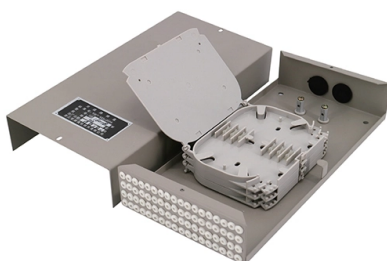


## Price of optical fiber cable for temperature measurement on shelves in Nepal



### Overview

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### Key Takeaways

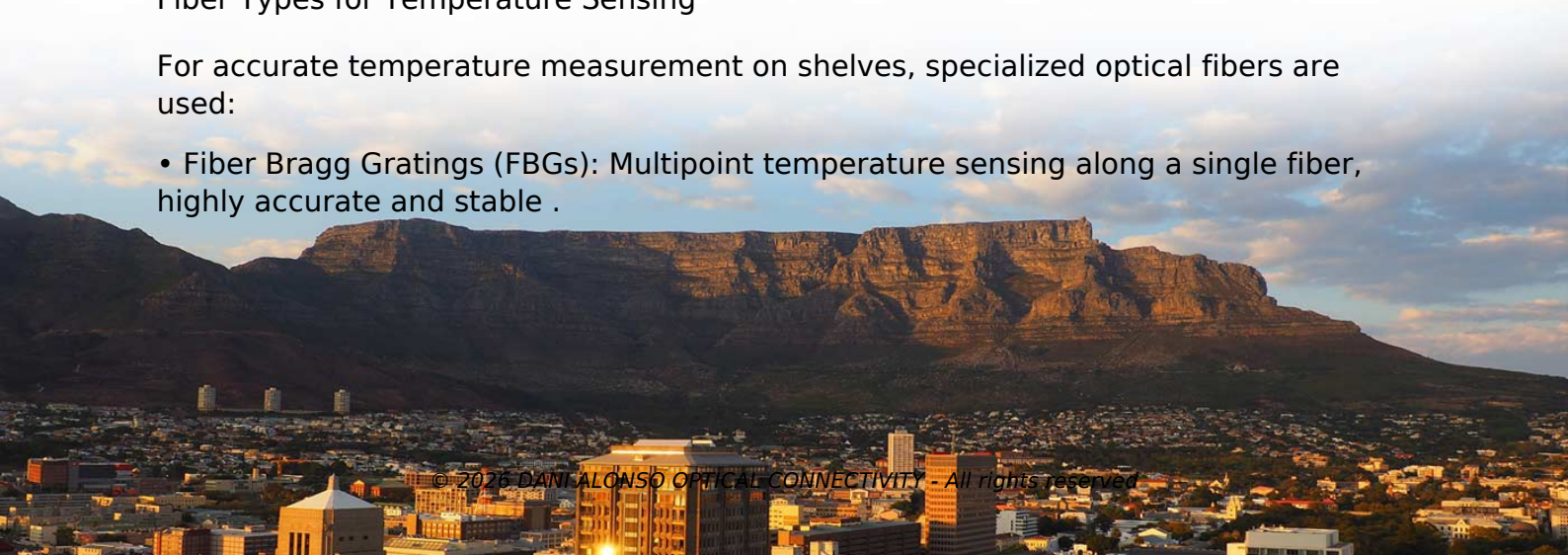
Optical fiber cables for temperature measurement in Nepal typically range from NPR 2,000 to NPR 15,000 per 100 meters depending on type and quality. Local Pricing

Standard optical fiber cables, which can be adapted for temperature sensing applications, are available in Nepal through online retailers such as Daraz and ITShop Nepal. Prices for a 100-meter fiber optic cable generally start around NPR 2,000 for basic multimode fibers and can go up to NPR 15,000 for higher-quality single-mode or specialty fibers suitable for sensing applications. Accessories like connectors, couplers, and protective tubing may add to the total cost.

#### Fiber Types for Temperature Sensing

For accurate temperature measurement on shelves, specialized optical fibers are used:

- Fiber Bragg Gratings (FBGs): Multipoint temperature sensing along a single fiber, highly accurate and stable.



- Distributed Temperature Sensing (DTS) fibers: Use Rayleigh backscatter to provide continuous temperature profiles over long distances, suitable for monitoring multiple shelves simultaneously .
- Photonic Crystal Fibers (PCFs): Can achieve high sensitivity (up to 6.6 nm/°C) when combined with thermosensitive liquids, ideal for precise temperature monitoring . These fibers are more expensive than standard communication fibers due to their sensing capabilities and may require interrogator units for data acquisition, which can significantly increase the overall system cost.

#### Practical Considerations

- Length: Ensure the fiber length covers all shelves plus extra for routing.
- Installation: Fibers can be embedded or attached along shelves; protective sheathing is recommended in cold or industrial environments.
- Accuracy: FBGs and DTS systems provide sub-millimeter spatial resolution and high sensitivity, which is critical for precise temperature monitoring .
- Suppliers: While general optical fiber is available locally, specialized temperature-sensing fibers may need to be imported from international suppliers, affecting cost and delivery time. In summary, for basic shelf temperature monitoring, expect to pay NPR 2,000–15,000 per 100 meters for the fiber itself, with additional costs for sensors, connectors, and interrogators if high-resolution temperature measurement is required .

## Article Content

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Connectors: Toslink Male to Toslink Male Compatible with: ADAT, DAW, Dolby Digital, DTS devices Cable Length:1.5M

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200M FTTH Fiber Optic Drop Optical Cable Cord SC to

Product Details: 1.SC-SC Singlemode Simplex 100M Drop Cable Patch cord 2.Length: Meters 3 lor:Black

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