What are the pricing methods for fiber optic arrays



Overview

This buyer''s guide for fiber arrays provides technical background, comparison of major types, selection criteria, and an overview of suppliers.

Key Takeaways

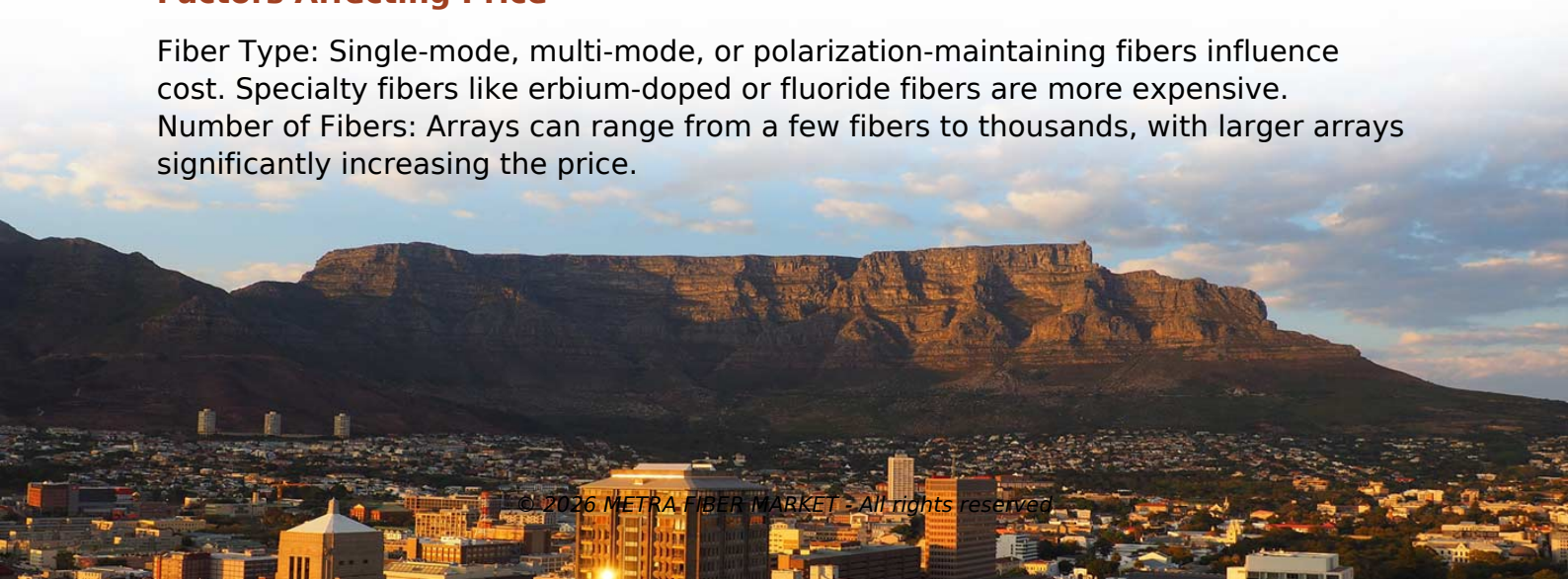
Fiber optic array prices vary widely, typically ranging from $50 for small standard arrays to several thousand dollars for high-channel, custom, or specialized arrays.

Price Range Overview

The cost of a fiber optic array depends on several factors, including the number of fibers, fiber type, connector type, and customization requirements. Standard v-groove arrays with a few fibers can start around $50–$200, while larger arrays with dozens of fibers, polarization-maintaining fibers, or specialized coatings can cost $500–$5,000 or more. Highly customized 2D arrays or arrays designed for photonic integrated circuits (PICs) may exceed this range due to precision manufacturing and tight tolerances.

Factors Affecting Price

Fiber Type: Single-mode, multi-mode, or polarization-maintaining fibers influence cost. Specialty fibers like erbium-doped or fluoride fibers are more expensive. Number of Fibers: Arrays can range from a few fibers to thousands, with larger arrays significantly increasing the price.



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Connectors and End-

Fittings: Common connectors include SC, LC, ST, MTP, SMA, and FC. Custom end-fittings or high-precision connectors add to the cost. Customization: Spot-size converters, anti-reflective coatings, end caps, or high-temperature coatings increase manufacturing complexity and price.

Precision Requirements: Arrays for PIC coupling or coherent beam combining require micron or sub-micron alignment, which raises costs. Suppliers and OrderingPHIX Photonics offers standard and custom v-groove arrays with channel counts up to 64 and a dedicated webshop for quotes. Fiberguide Industries (Molex) provides arrays with up to 128 fibers in V-grooves and 2D arrays up to 4096 fibers, including specialty fibers and coatings.

Made-in-

China lists multiple suppliers offering cost-effective fiber optical arrays with options for OEM customization.

Cost-

Saving Tips

Opt for standard stock arrays rather than fully custom designs when possible. Choose common fiber types and connectors to reduce manufacturing complexity. Request bulk or wholesale pricing if purchasing multiple units.

In summary, fiber optic array prices are highly variable, ranging from tens of dollars for simple arrays to thousands for high-channel, precision, or specialty arrays. The final cost depends on fiber type, number of channels, connectors, and any custom features required for your application.

Article Content

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There is also a method of processing by molding using a die processed with the accuracy required for an optical fiber array. Production of more reliable optical fiber arrays requires high

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