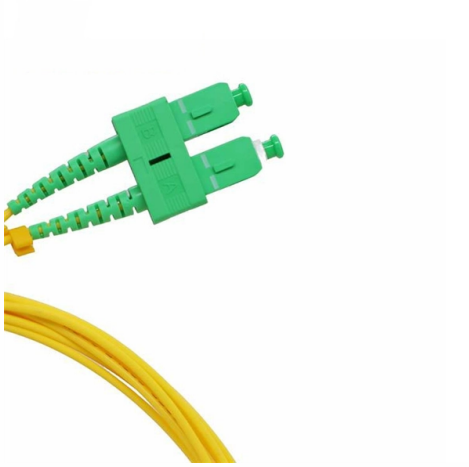
Offshore Price Fiber Optic Hybrid Cable G 652



Overview

This hybrid cable integrates two 10 mm² oxygen-free copper conductors with 12 to 48 G.652.D single-mode optical fibers, enabling simultaneous delivery of data and power in a single armored assembly.

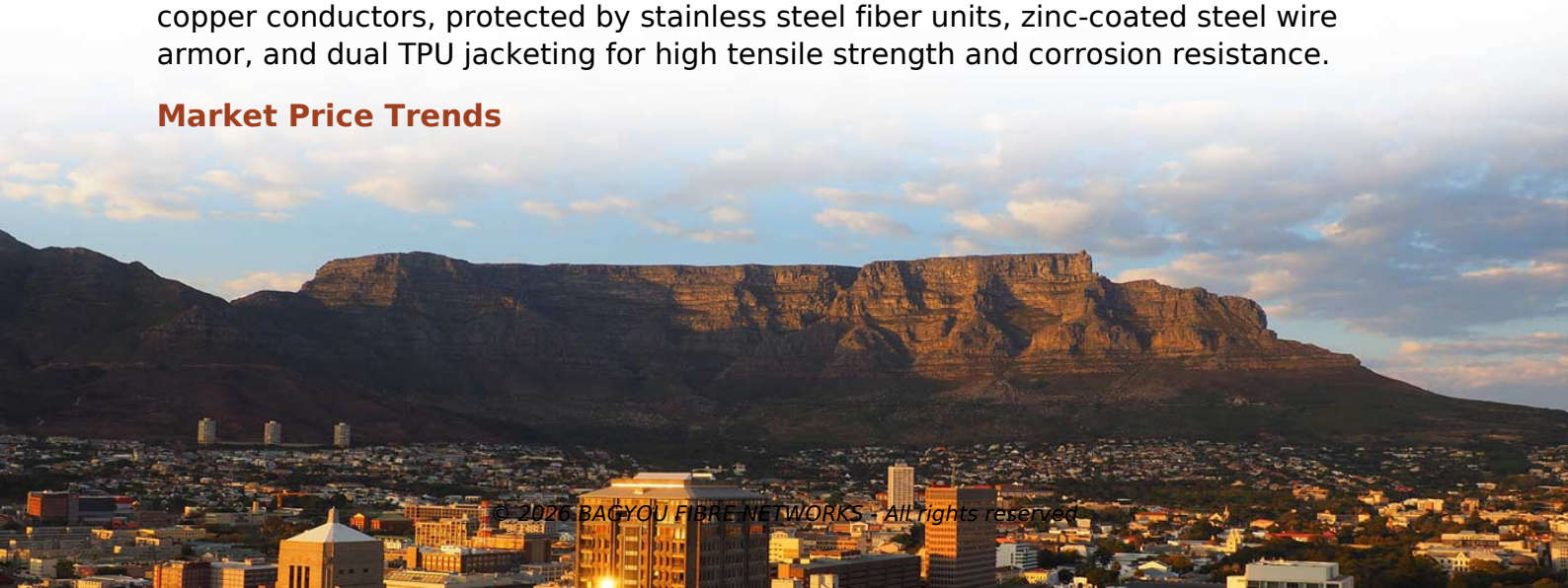
Key Takeaways

G. 652D offshore hybrid fiber optic cables are currently experiencing rising prices due to high demand and limited supply, with procurement costs influenced by fiber type, cable configuration, and deployment depth. Overview of G.

652D Hybrid Submarine CablesG. 652D is a single-mode optical fiber standard widely used in submarine and offshore networks, optimized for low water peak and enhanced bend tolerance, making it suitable for long-haul, transoceanic data transmission. Hybrid submarine cables integrate both fiber optics and electrical conductors in a single armored assembly, allowing simultaneous delivery of data and power to offshore platforms, subsea sensors, and remote islands.

Typical configurations include 12–48 fiber cores combined with 10 mm² oxygen-free copper conductors, protected by stainless steel fiber units, zinc-coated steel wire armor, and dual TPU jacketing for high tensile strength and corrosion resistance.

Market Price Trends



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The price of G. 652D fiber has been rising sharply in 2025–2026 due to increased demand from FTTH projects, AI data centers, and national broadband initiatives, while supply remains constrained. Lead times are shorter, quotation validity is often limited to 1–3 days, and buyers face tighter allocations.

Market analysis indicates that Chinese suppliers dominate production, and geopolitical factors, such as disruptions in Russian fiber production, have further tightened global supply, indirectly affecting offshore cable costs. While exact per-meter pricing varies by supplier, fiber count, and cable design, hybrid submarine cables typically command a premium over standard fiber due to the integration of power conductors, armored protection, and subsea-rated materials. Prices are also influenced by operational depth, with cables rated for up to 400 meters requiring hydrostatic testing and specialized sheathing.

Procurement Considerations

Cable Type: G. 652D single-mode fiber is standard for long-haul submarine networks. Fiber Count: More fibers per cable increase throughput but also cost.

Hybrid Features: Inclusion of power conductors and armored protection adds to price. Deployment Depth: Shallow-to-mid-depth cables (up to 400 m) are less expensive than deep-sea variants. Lead Time: Due to high demand, early procurement and phased orders are recommended.

In summary, expect higher baseline prices for G. 652D offshore hybrid cables in 2026, driven by global demand, supply constraints, and the technical complexity of subsea deployment. Buyers should plan for short lead times, premium pricing, and strategic procurement to secure necessary quantities for offshore projects.

Article Content

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Recommendation ITU-T G.652 (08/2024)

This document outlines the specifications for a single-mode optical fiber and cable designed for use around the 1310 nm zero-dispersion wavelength, suitable for

Recommendation ITU-T G.652 (08/2024)

Characteristics of a single-mode optical fibre and cable Summary Recommendation ITU-T G.652 describes the geometrical, mechanical and transmission attributes of a single-mode optical

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

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