

Spool Fiber Cable SM G.652D

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Variants

5KM 10KM 20KM

Details

Spool Fiber Cable SM G.652D: Ideal Solutions for 5km, 10km, & 20km Applications

When it comes to reliable, high-performance fiber optic connectivity, **Single-Mode G.652D fiber** stands out as a versatile choice for networks of all sizes. Whether you're deploying short-range links or extending coverage across longer distances, our pre-spooled G.652D cables deliver low attenuation, exceptional bandwidth, and future-ready flexibility. Here's how it shines across different distances:

5km Distance: Precision for Compact Networks

Perfect for campus networks, data centers, or industrial complexes, the G.652D fiber spool in 5km lengths offers a **cost-effective, plug-and-play solution** for high-speed connectivity.

Low Signal Loss: With attenuation as low as 0.36 dB/km at 1310nm/1550nm, even over short runs, you'll maintain crisp signal integrity.

Ease of Deployment: Lightweight and easy to manage, 5km spools minimize splicing and reduce installation time for projects like server-to-server links or building-to-building connectivity.

Future-Proof: Supports wavelengths up to 1625nm, making it ready for upgrades to advanced DWDM or GPON systems.

10km Distance: Balancing Reach & Performance

For metro networks, enterprise backbones, or telecom access lines, a 10km G.652D spool strikes the perfect balance between distance and performance.

Zero Compromise on Speed: Designed for 10G/40G/100G transmissions, this fiber minimizes chromatic dispersion, ensuring data arrives fast and intact.

Durability Meets Flexibility: Armored options (available upon request) protect against harsh environments, while bend-insensitive design prevents micro-bend losses in tight spaces.

Ideal for FTTx: Use it as a backbone for fiber-to-the-home (FTTH) or business (FTTB) deployments, where reliability over medium distances is critical.

20km Distance: Long-Haul Excellence

When your project demands extended reach—like ISP backbones, remote site links, or cross-city infrastructure—the 20km G.652D spool delivers **unmatched long-distance performance**.

Ultra-Low Attenuation: Maintains signal clarity even over 20km, reducing the need for repeaters and saving on operational costs.

Dispersion-Optimized: Engineered to handle high-capacity traffic with minimal pulse spreading, ideal for 100G/400G coherent systems

Weather-Resistant: Available with ruggedized jackets for outdoor use, ensuring stable performance in extreme temperatures or moisture-prone areas.
