
Press release**Hollow Core Fiber: Prysmian and Relativity Networks deploy their highest density HCF cable to date**

- **Testing confirms the reliable deployment of a hollow core fiber cable in Dura-Line microducts**
- **Hollow Core Fiber (HCF) cables are available now for AI data center deployment**

Prysmian and Relativity Networks have reached a new milestone in the deployment of high-density cable solutions incorporating Relativity Networks' ChronoCore™ hollow core fibers, successfully completing high-density cable deployment tests in collaboration with Dura-Line, a leading manufacturer of high-density polyethylene (HDPE) conduit solutions.

Testing at Dura-Line's flagship test facility in Clinton, Tennessee confirmed the reliable installation of a high-density cable incorporating Relativity Networks' ChronoCore™ hollow core fibers at jetting speeds of up to 350 ft/min—demonstrating the technology's readiness of the solution for real-world deployment and marking a meaningful technical step forward for the development of cutting-edge AI optical infrastructure and data center networks.

The cable, based on Prysmian's Sirocco™ cable architecture and incorporating Relativity Networks' ChronoCore™ hollow core fibers, combines Prysmian's expertise in high-density cable design and manufacturing with Relativity's breakthrough hollow core fiber technology. The solution delivers the expected optical performance while supporting the development of next-generation low-latency data center infrastructure.

Srinivas Siripurapu, Chief Innovation and Sustainability Officer of Prysmian: *"This milestone comes just 15 months after Prysmian's partnership with Relativity Networks to industrialize hollow core fiber—and reflects Prysmian's long-standing leadership in innovation. We worked closely with Relativity Networks and Dura-Line to achieve this important industry milestone to showcase the scalability and technological readiness of this innovative digital infrastructure."*

Rodrigo Amezcua Correa, CTO of Relativity Networks: *"A breakthrough fiber technology only matters if it can be manufactured, cabled, and deployed at scale - and this milestone proves that it can. Seeing ChronoCore™ HCF produced and installed while delivering the performance it was designed for - to enable the next generation of distributed AI - marks the transition from innovation to infrastructure. Together, Relativity Networks and Prysmian are accelerating the adoption of hollow core fiber for the low latency AI and data center networks of the future."*

Prysmian is already scaling production of Relativity Network's hollow core fiber, including investments in its Eindhoven facility, while its Claremont, North Carolina plant has successfully manufactured the cable with 24 hollow core fibers in a 10mm diameter cable, meeting customer attenuation requirements. This is an essential step forward for the major US data center market.

"Dura-Line has been synonymous with innovation for over 50 years, and our global network of testing facilities positions us as a key partner to those companies pushing the boundaries of what's possible in optical networking" added **Jason Brabec, Global Director Field Application Engineering, Dura-Line.**

About Hollow Core Fiber

In a hollow core fiber, a glass waveguide guides light through an air-filled core. Because the speed of light in air is faster than the speed of light in glass, hollow core fiber transmits data nearly 50% faster than traditional glass communications fiber, minimizing latency in time-critical applications.

One specific use case is data center interconnect, where the transmission speed of traditional glass optical fibers limits the distance between data centers in a synchronized cluster to 60 km. Deployment of hollow core fiber could allow data center operators to extend that distance to 90 km (56 miles), enabling optimized data center siting where land, power, and water are all in short supply.

Prysmian is the leading provider of solutions for energy and digital connections, delivering major electrical transmission projects on land and at sea, modernizing power grids, and unlocking renewable energy, electrification, and digital connectivity worldwide. The company combines engineering excellence with sustainability-driven innovation, enabled by its 34,000 employees, 109 production facilities and 30 R&D centers in over 50 countries. Prysmian is a public company, listed on the Italian stock exchange and recorded 2025 revenues of approximately €20 billion.

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Relativity Networks is the leading at-scale Hollow Core Fiber provider that has greatly accelerated the speed of light in fiber optics. By replacing glass with air, the company has created technology that allows data to move nearly 50% faster enabling data to travel 1.5x farther with no impact on network performance, addressing the critical power challenges of today, including the need for higher performing data centers and data connectivity in the age of AI. Hyperscalers rely on Relativity Networks to provide the geographic flexibility to build data centers closer to where power is available, as well as connecting disparate data centers, while meeting exacting data-transmission latency (time lag) requirements. Relativity Networks' HCF and connectivity solutions integrate seamlessly with existing infrastructure, unlocking immediate expansion options beyond power-constrained urban grids. For more information, visit www.relativitynetworks.ai.

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