

PRESS RELEASE

PRYSMIAN SETS THE STANDARD FOR THE NEXT GENERATION OF FIBRE OPTIC CONNECTIONS WITH ITS HIGH-DENSITY, LOW-LOSS CABLES WITH ENHANCED BENDBRIGHT^{XS} 200µm FIBRE

- **Breakthrough for telecom performance will enable improved reliability and capacity**
- **Prysmian's solutions can help reduce both the risk from cyber threats & environmental impact**

Milan, 30th April 2025 - Prysmian has taken another important step to enable digital transformation globally as it introduces new technology in its fibre optic cables to benefit from improved low-loss capabilities. As Prysmian introduces its enhanced **BendBright^{XS} 200µm fibre**, telecom operators and network providers can achieve more robust, future-proof networks that offer high-speed, low-latency connectivity even in the most challenging deployment scenarios.

By incorporating BendBright^{XS} 200µm fibre into its high-density cable solutions, Prysmian has set a new benchmark for optical performance in the telecom industry. It also ensures that networks can be deployed in more compact spaces, reducing the physical footprint of installations while still supporting ultra-fast data transmission.

Frederick Persson, EVP Digital Solutions at Prysmian: *"This innovation underscores Prysmian's unwavering commitment to research, development, and excellence. By advancing low-loss, high-density cables with BendBright^{XS} 200µm fibre, Prysmian continues to meet the evolving demands of 5G, IoT, and AI-driven applications. These next-generation cables enable the creation of more secure, sustainable, and scalable optical networks that deliver unmatched performance, extended reach, and superior transmission capabilities, as well as reducing the environmental impact — setting them far ahead of competing technologies."*

WHY IS LOW-LOSS IMPORTANT AND HOW WILL PRYSMIAN CUSTOMERS BENEFIT?

Prysmian is able to offer its customers its enhanced BendBright^{XS} 200µm fibre – which is a high-performance optical fibre that combines the industry-leading macro- and micro-bending performance with a 200µm coating diameter. This solution will be found in Prysmian fibre optic cables such as its Sirocco^{HD} microduct cables.

Optical fibres serve as the foundation of our modern data transfer connections, transporting optical signals from source to destination. By enhancing the impact of low-loss capabilities, there is a direct positive impact on the high-speed signals that are transmitted over distances, reducing the need for the regeneration of the signal. In combination, improvements in low-loss technology, together with the advances in bend-induced losses and importantly, an enhancement in the amount of data

which can be transferred – increasing reliability and speed – position Prysmian as the technology leader in fibre optic cables.

Customers will benefit thanks to enhanced network performance achieved by the superior low-loss characteristics of the fibre, even when included in the cable, ensuring extended reach and high-capacity transmission in the most demanding environments.

REDUCING EMISSIONS, ENHANCING RELIABILITY AND STRENGTHENING PROTECTION FROM CYBER RISKS

This achievement is also enabling additional benefits for customers, as well as society and the planet. The increased density in the fibre inside the cables will contribute to avoided emissions, ensuring a positive impact on the planet.

In addition, Prysmian's ColorLock^{XS} coating system used in the fibre offers increased mechanical reliability, ensuring superior protection against environmental factors, mechanical stresses, and aging. This high-performance coating contributes to the overall durability of the cables, enabling them to thrive in dense, high-traffic network deployments that require long-lasting reliability. The ColorLock^{XS} coating combines the colouring layer into the secondary coating, eliminating the need for an additional 10µm of colour coating that others require. This enables further reduction in the diameter of the overall cable.

The fibre's ability to withstand both macro- and micro-bending without compromising on performance enables the fibres to be packed tighter into cables, which provides greater cable miniaturization without introducing additional loss or compromising on capacity. Engineered for low loss, it ensures optimal transmission across all communication bands, including the most demanding L-band and U-band, effectively reducing bend-induced losses and power leakage. By mitigating these risks, it enhances network reliability, and strengthens protection against tapping and cyber threats.

BUILDING ON OUR LEGACY AS THE CHAMPION OF FIBRE INNOVATION

The latest developments in bend-insensitive fibre technology follows prior achievements such as in 2006, when Prysmian introduced BendBright^{XS} fibre, the first G.657 fibre fully compatible with legacy G.652 fibres. In 2009, Prysmian pushed innovation further with BendBright^{XS} 200µm, the first commercially available 200µm-coated fibre. These reduced-diameter fibres have since paved the way for next-generation cable systems and network architectures.

Prysmian

Prysmian is a global cable solutions provider leading the energy transition and digital transformation. By leveraging its wide geographical footprint and extensive product range, its track record of technological leadership and innovation, and a strong customer base, the company is well-placed to capitalise on its leading positions and win in new, growing markets. Prysmian's business strategy perfectly matches key market drivers by developing resilient, high-performing, sustainable and innovative cable solutions in the segments of Transmission, Power Grid, Electrification and Digital Solutions. Prysmian is a public company listed on the Italian Stock Exchange, with almost 150 years of experience, over 33,000 employees, 107 plants and 27 R&D centres in over 50 countries, and sales of over €17 billion in 2024.

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