

PRESS RELEASE**PRYSMIAN FURTHER EXTENDS ITS LEADERSHIP IN OPTICAL FIBRE INNOVATION WITH WORLD'S FIRST 160 MICRON BEND INSENSITIVE FIBRE, SETTING A NEW BENCHMARK IN NETWORK MINIATURIZATION**

Milan, November 10, 2025 – Prysmian continues to drive digital innovation with the introduction of its BendBright^{XS} 160µm single-mode optical fibre—the world's first of its kind. This breakthrough enables cables to be much smaller and pack more fibres together, which is essential for modern digital networks. Miniaturized, high-density cables allow network operators to fit more data-carrying fibres into limited spaces—such as underground ducts, buildings, and data centres—making installation faster and more cost-effective.

Building on a legacy of innovation, Prysmian's new BendBright^{XS} 160µm fibre paves the way for future cable systems by delivering exceptional fibre density in a significantly reduced diameter. After pioneering the first commercialized 200µm bend insensitive fibre in 2009 and the 180µm version in 2019, Prysmian now sets a new industry milestone with the 160µm launch in 2025.

“Our proprietary BendBright^{XS} technology has enabled us to achieve an unprecedented level of fibre miniaturization,” says Ian Griffiths, VP R&D, Digital Solutions segment at Prysmian. “BendBright^{XS} 160µm empowers cable designers to dramatically reduce cable dimensions and achieve record-setting cable density.”

The 160µm fibre reduces the cross-sectional area by more than half compared to traditional 250µm single-mode fibres, while maintaining a 125µm glass diameter. Fully compliant with G.652 and G.657.A2 global standards, BendBright^{XS} 160µm is compatible with all legacy single-mode fibres and features the advanced ColorLock^{XS} coating system for superior bend performance and mechanical reliability.

Prysmian's sustained investment in R&D and product innovation has made this achievement possible, enabling the company to deliver world-class, high-quality solutions that meet the evolving demands of global connectivity.

As network operators prepare for tomorrow's connectivity needs, BendBright^{XS} 160µm opens new opportunities for high fibre count cables that are compact, high-density, and easy to deploy—ensuring networks are ready for the future.

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 capitalize on its leading positions and win in new and 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 centers in over 50 countries, and over €17 billion of revenues in 2024.

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