

Huawei s Next-Generation Hollow Fiber Optic Core



Overview

Hollow Core Fiber (HCF) replaces the traditional solid glass core of optical fiber with an air-filled channel. This allows light to travel faster and reduces network latency by up to 30-35% per kilometer. [Barcelona, Spain, March 2, 2026] At the Huawei product and solution launch event during MWC Barcelona 2026, Bob Chen, President of Huawei Optical Business Product Line, unveiled Next Generation Optical Network products and solutions to foster synergy between AI and networks, accelerating the. Published by: Research & Development Department, Technologie Optic. However, glass imposes a fundamental physical limitation because light. In light of the recent advances in hollow-core fiber (HCF) design and manufacturing, wide-scale deployments of this fiber type to realize next-generation optical transport networks may become viable in the foreseeable future, with benefits in terms of lower latency and improved capacity/reach. China Mobile and Telecom test out emerging technology that promises big performance gains over conventional fiber. Light propagates primarily through an air core rather than solid silica glass, overcoming long-standing physical limits on attenuation, latency, nonlinearity, and bandwidth.

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A hollow-core optical fibre which surpasses silica fibre's long-standing limits and provides an attenuation below 0.1 dB/km across a record-wide bandwidth, could yield more energy-efficient...



These steps collectively mark the shift of HCF from an experimental platform to an emerging commercial technology positioned to reshape next-generation networks. In conventional ...



Hollow core fiber (HCF) represents a fundamental shift in optical communications. Light propagates primarily through an air core rather than solid silica glass, overcoming long-standing...



The resulting analysis allows us to determine, at a system and network level, the combination of fiber and amplifier parameters that will allow HCF to become a competitive ...



Chinese operators have begun testing and deploying hollow-core fiber, the emerging networking tech that sends data through air rather than glass.



At GITEX 2024 Dubai, #Huawei unveiled next generation fiber optics solutions, including F5G-A Intelligent Network, FTTO 2.0 for campus networks, and fiber optical sensing for smart ...



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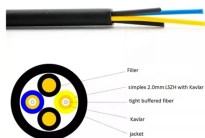
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In the optical transmission domain, Huawei has released Next Generation OTN products for OTN backbone, OTN optical layer, and OTN metro networks, helping operators build Agentic ...



This technical analysis explores Huawei's optical networking ecosystem—from central office to customer premises—revealing how its integrated product suite enables smart cities, Industry ...



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