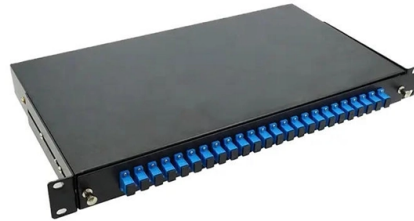


The fastest international optical cable



Overview

An international research team led by the Photonic Network Laboratory at the National Institute of Information and Communications Technology (NICT, President: TOKUDA Hideyuki Ph.), and including Sumitomo Electric Industries, Ltd. (Sumitomo Electric, President: INOUE Osamu) have set. Fibre-optic Link Around the Globe (FLAG) is a 28,000-kilometre-long (17,398 mi; 15,119 nmi) fibre optic mostly- submarine communications cable that connects the United Kingdom, Japan, India, and many places in between. A consortium of Japanese, Australian, Dutch, and Italian scientists has established a fresh velocity milestone. Why it matters: A technological leap in fiber optics has shattered previous limitations, achieving what experts once considered impossible: transmitting data at 1.7 Petabits over a 67km length of fibre. The fibre, which contains 19 cores that can each carry a signal, meets the global standards for fibre size, ensuring. Simon Gross, an ARC Future Fellow at the Macquarie University School of Engineering, works with the new multicore optical fiber setup; the new 19-core optical fiber is shown in the inset.



Article Content

Fiber-optic Cable Market Report: Size, Growth, Trends & Forecast

Fiber-optic Cable Market size was valued at \$ 14 Bn in 2024 and is expected to reach \$ 17.95 Bn by 2032, growing at a CAGR of 21.45% from 2026 to 2032 The report provides key trends, growth

Fastest industry standard optical fiber | ScienceDaily

A team of Japanese, Australian, Dutch, and Italian researchers has set a new speed record for an industry standard optical fibre, achieving 1.7 Petabits over a 67km length of fibre.

Fastest industry standard optical fiber | ScienceDaily

An optical fiber about the thickness of a human hair can now carry the equivalent of more than 10 million fast home internet connections running at full capacity.

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