

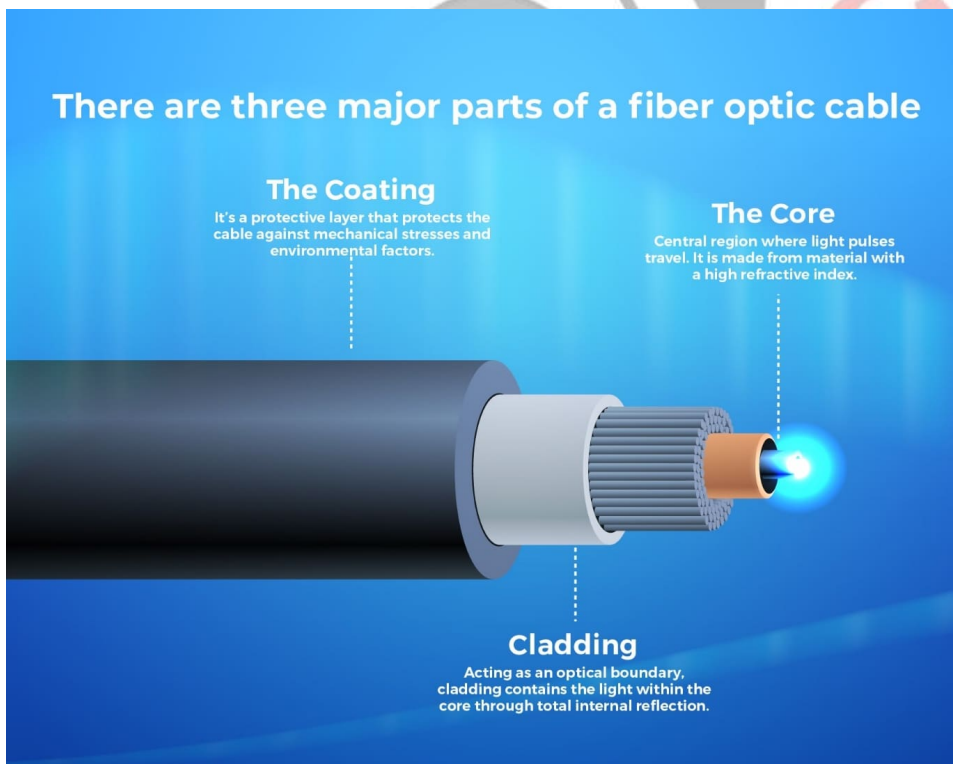


## Meta's Project Waterworth

[Source: TH](#)

**Meta** has announced plans to launch **Project Waterworth**, a subsea cable network that will span **50,000 km** and will reach **depths of up to 7,000 meters**.

- It will be the **world's longest and most technologically advanced** cable system connecting **India, the US, Brazil, South Africa**, and other regions.
- It is expected to be **operational by 2030** and will address increasing demand for **AI** and **digital services**.
- **Subsea Cable (Submarine Cables):** They are **high-capacity optic fibre cables** laid on the ocean floor that play a crucial role in providing global connectivity for **high-speed data exchange**.
  - They use **fast-moving light pulses** to transmit digital information through **total internal reflection**.
  - The glass fibers are protected by layers of **plastic** and sometimes **steel wire**.



- Unlike satellite communication, fiber optics offer **unlimited bandwidth and low latency, unaffected by space weather, radiation, or debris**.
- India will soon launch **two cable systems**:
  - **India Asia Xpress (IAX)** linking Chennai and Mumbai to **Singapore, Thailand, and Malaysia**.

- **India Europe Xpress (IEX)** linking Chennai and Mumbai to **France, Greece, Saudi Arabia, Egypt, and Djibouti.**

**Read More:** [Undersea Cable Network](#)

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