

# Gulf Region Quantum Communication Optoelectronic Hybrid Cable 8 Cores



## Overview

The Quantum Cable is a 7,700km subsea ultra high speed fibre-optic cable system connecting NEOM City in Saudi Arabia directly with the U. and Europe via the Mediterranean Sea. It connects NEOM with Cyprus, Italy, France and Spain. The Quantum Cable System deploys state-of-the-art transmission. 2-18 cores with cross sections ranging from 6 mm<sup>2</sup> to 25 mm<sup>2</sup> and with Single-Mode or Multi Mode fibers Multi-Core Power Cables 6-24 cores with cross sections ranging from 4 mm<sup>2</sup> to 25 mm<sup>2</sup>, and with Single-Mode or Multi Mode fibers Multi-Core Power Cables 6-24 cores with cross sections ranging from 4. The Giga-Volt hybrid solution incorporates both fibre and copper conductors in one cable that deliver power and data to a remote device through copper and fibre medium. As connectivity needs converge, APAR hybrid cables help builders meet demand with unique cable designs across multiple use cases. According to the Kuwait News Agency (KUNA), Kuwait's Communication and Information Technology Regulatory Authority (CITRA) inked on Monday a contract awarding Ooredoo group license to put in place the submarine cable Fibre in Gulf (FIG).

## Article Content

Dec 19, 2025

Quantum Cable

The Quantum Cable is a 7,700km subsea ultra high speed fibre-optic cable system connecting NEOM City in Saudi Arabia directly with the U.S. and Europe via the

Oct 16, 2025

Optoelectronics" quantum leap: Unveiling the breakthroughs driving

This review explores the exceptional growth of optoelectronics and the pivotal breakthroughs that have led to a quantum leap in its capabilities. Novel materials, including two

Sep 10, 2025

Hybrid optoelectronic-integrated module design for quantum communication

Quantum key distribution (QKD) technology is progressively transitioning from experimental research to industrial development. The development of highly integrated and stable QKD modules has thus

Jan 15, 2026

FTTR hybrid composite cable

FTTR on-site Photoelectric Composite Cable is a hybrid cable of integrated optical fiber and electrical copper wire; applicable for indoor tube conduct wiring, on-site

Jul 03, 2025

Application of Optoelectronic Hybrid Cable in Network Communication

The optoelectronic hybrid cable integrates optical unit and electrical unit at the same time, which can provide signal transmission for small base station equipment and power supply for

Aug 15, 2025

Analysis of the application of optoelectronic hybrid cable in network ...

Signal transmission and power supply, this solution can meet the high bandwidth requirements of equipment and reduce the use of cables. It will become more and more popular in campus wiring

Dec 17, 2025

Communication & Information Technology Regulatory Authority News

With a capacity of 720 terabyte per second and 24 pairs of optical fibers, the FIG is one of the most advanced cables in the world and gives a quantum leap to the digital infrastructure in the Gulf region,

Feb 26, 2026

Gulf Bridge International And TE Subcom Achieve Status Of Ready

By TE Subcom Gulf Bridge International (GBI), the Middle East's first privately owned, regional cable operator, and TE SubCom, a TE Connectivity Ltd. Company and an industry pioneer

Aug 05, 2025

Optoelectronic Hybrid Cables: Enhancing Industrial Automation

Optoelectronic hybrid cables enable robust communication for remote monitoring systems, allowing operators to oversee operations without needing to be on-site—enhancing both safety and efficiency.

Dec 20, 2025

Quantum Cable

The Quantum Cable is a 7,700km subsea ultra high speed fibre-optic cable system connecting Asia and Europe via the Mediterranean Sea. It connects Cyprus with

Feb 04, 2026

All-plasmonic sub-terahertz wireless communication link

This study demonstrates a sub-THz free-space link, achieving 120 Gbit/s across 5 m enabled by compact plasmonic components with >300 GHz

Jan 28, 2026

Kuwait's CITRA, Ooredoo to Develop One of the World's

The gigantic project connects seven Arabian Gulf countries (Bahrain, Iraq, Kuwait, Oman, Qatar, Saudi Arabia, and the United Arab Emirates) and

Sep 04, 2025

Hybrid cables

Hybrid cables for AC voltage feeding with 3 power conductors. Customized structures: A single hybrid cable can consist of mixed copper wire sizes for power

Nov 27, 2025

Kuwait CITRA Awards License to Ooredoo to Build Fibre in Gulf (FIG)

With a capacity of 720 terabyte per second ( Tbps) and 24 fiber pairs, the FIG is one of the most advanced cables in the world and gives a quantum leap to the digital infrastructure in the

May 10, 2026

Hybrid optoelectronic-integrated for quantum communication module

Due to the aforementioned reasons, achieving highly inte-grated modules for QKD—similar to those in classical optical communication transmitters—presents significant challenges in electronic design,

Sep 28, 2025

Gigavolt Hybrid Cables for 5G, IoT and DAS | APAR

Discover APAR Gigavolt hybrid power and fibre cables that cut rollout time, simplify cable management and lower TCO for 5G, IoT and DAS networks.

Aug 12, 2025

How telecoms can ride the hyperscaler wave | Strategy& Middle East

He has served major telecom operators and IT companies in the region for 15 years. He has led large-scale transformation programs across various B2B information and communications technology (ICT)

Nov 09, 2025

Hybrid Cables

CommScope bundles hybrid cabling to your custom specifications, using our high-performance fiber-optic, unshielded twisted pair and coaxial cables.

Nov 04, 2025

Optoelectronic hybrid cable

We provide Optoelectronic hybrid cable, used to access network and connect BBU and RRU in DC remote supply system of distributed base station.

Sep 10, 2025

Optoelectronic Hybrid Cables: Transforming Data Transmission

Optoelectronic hybrid cables achieve just that by fusing optical fibers and copper conductors into a single, powerful unit. This innovative design not only enhances data transmission speeds but also

Apr 25, 2026

Gulf Cable

Lead Sheathed Cables Telephone and Special Application Cables L.T. Cable joints Fire Resistant Cable Domestic Wires SOLAR PV CABLE Cable Guide Product

Dec 22, 2025

Optoelectronic Composite Cable: Hybrid Solution for

Explore optoelectronic composite cables—hybrid fiber optic and power cables engineered for efficient data and energy transmission. Learn about types,

May 11, 2026

Hybrid classical-quantum communication networks

Abstract Over the past several decades, the proliferation of global classical communication networks has transformed various facets of human society. Concurrently, quantum networking has emerged as a

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