ZITHA TECH SPECIALTY CABLES (Pty) Ltd

FTTH New Cuban DAC High-Speed Cable



Overview

How fast is fiber internet? Experience Verizon''s 100% fiber-optic Fios home internet service. Plans start at $35/mo.

Key Takeaways

The FTTH New Cuban DAC is a high-speed Direct Attach Copper cable designed for short-range, cost-effective, and reliable data transmission in modern network and data center environments.Overview of DAC Cables

Direct Attach Copper (DAC) cables are factory-terminated copper assemblies that connect devices such as servers, switches, and storage units. They are available in passive and active versions:

• Passive DAC: Requires no external power or electronics, ideal for short-range connections (1–5 meters) within racks, offering low cost and low power consumption .

• Active DAC: Incorporates retimers or redrivers to preserve signal integrity and extend reach up to 9 meters, suitable for inter-rack connections or high-density deployments . DAC cables support a wide range of data rates, including 10Gbps, 25Gbps, 40Gbps, 50Gbps, 100Gbps, 200Gbps, 400Gbps, 800Gbps, and even 1.6Tbps, depending on the cable design and form factor (SFP, QSFP, OSFP) ( ).
Applications

The FTTH New Cuban DAC is particularly suited for:

• FTTH (Fiber to the Home) networks where short-range, high-speed connections are required between optical network terminals and distribution points.

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• Data centers and hyperscale deployments, connecting servers to switches within racks or across adjacent racks .

• High-performance computing (HPC) and AI workloads, where low-latency, high-bandwidth interconnects are critical .

Advantages

• High reliability and low latency: Copper DAC cables provide stable connections with minimal signal loss over short distances .

• Cost-effective: Passive DACs are inexpensive compared to fiber or active solutions, making them ideal for budget-conscious deployments .

• Flexible deployment: Active DACs allow for longer reach and maintain signal integrity in high-density racks, supporting modern networking standards like QSFP-DD, OSFP, and SFP112 .

• Customizable options: Manufacturers offer various lengths, wire gauges, shielding, and color-coded pull-tabs to meet specific deployment needs .

Technical Considerations

• Signal integrity: Active DACs use embedded chips to boost signal quality, while passive DACs rely on high-quality copper and shielding for low-loss transmission .

• Compatibility: Works with standard high-speed transceivers and supports Ethernet and InfiniBand protocols up to 800G .

• Environmental resilience: Designed to withstand typical data center conditions, including temperature variations and electromagnetic interference . In summary, the FTTH New Cuban DAC High-Speed Cable is a versatile, high-performance copper interconnect solution optimized for short-range, high-speed data transmission in FTTH networks, data centers, and high-density computing environments, offering a balance of cost, reliability, and scalability .

Article Content

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Explore our flagship high-speed passive and active cable assemblies engineered for fiber-to-the-home and hyperscale network

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9 common DAC Cables that Make Your Networking

DAC cable is a high-speed copper twin-ax assembly with pluggable connectors on either

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High-speed copper cables— DAC, ACC, and AEC —each serve a unique purpose in

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Submarine cable tripled Cuba''s Internet connection capacity

Experts estimate that 80 percent of the submarine cable''s capacity is consumed, but investments in the network have

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This new generation of DAC and active copper cables represents a significant leap forward in cable design. They

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