

Denmark DAC High-Speed Cable OSFP



Article Overview

OSFP DAC cables provide high-speed, low-latency, and cost-effective interconnects for modern data centers, supporting up to 1.6Tbps aggregate bandwidth.

Overview of OSFP DAC Technology

OSFP (Octal Small Form-factor Pluggable) Direct Attach Copper (DAC) cables are designed for short-reach, high-speed connections within data centers. They connect directly to OSFP ports on networking equipment, eliminating the need for optical transceivers and enabling fast deployment and reduced installation costs (Fibermall) . Each OSFP DAC typically uses 8 differential pairs, with each lane supporting 25 Gbps or higher, allowing aggregate data rates of 400 Gbps, 800 Gbps, or up to 1.6 Tbps depending on the cable and signaling technology (TE Connectivity, Amphenol, Molex) .

Key Features

- **High Bandwidth Capacity:** Supports 25 Gbps per lane, with 8 lanes combining to 400 Gbps or higher for advanced PAM4 signaling up to 224 Gbps per lane, enabling aggregate rates up to 1.6 Tbps (TE Connectivity, Molex) .
- **Short Reach:** Optimized for 0.5 to 2 meters, ideal for in-rack or adjacent rack connections (Fibermall) .
- **Low Latency:** High-quality copper conductors and optimized design minimize signal loss and crosstalk, ensuring low-latency transmission for real-time applications (Fibermall) .
- **Cost-Effectiveness:** Passive DACs reduce costs by avoiding optical transceivers, w...

Article Content

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High Speed Cables for Next Generation Data Communication

Amphenol designs, manufactures, and supplies high-speed global internet enabling interconnect solutions to system

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OSFP Connector System

The Octal Small Form Factor Pluggable (OSFP) Connector System provides single- or dual-port, 8- or 16-lane I/O connectivity with

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Wholesale 800G DAC Cables — OSFP & QSFP-DD | Fibrecross

FAQ About 800G Direct Attached Cables What are the benefits of using the 800G DAC cable for hyperscale data centers? The 800G

Dec 29, 2025

OSFP-XD Copper Cable Assemblies

Amphenol Communications Solutions OSFP-XD copper cable assemblies are engineered to meet the stringent

Jul 18, 2026

400G OSFP to 400G QSFP-DD DAC Twinax Cable

The 400G OSFP to 400G QSFP-DD Direct Attach Copper (DAC) cable provides a high-speed, cost-effective solution

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Understanding the OSFP Flat-top DAC Cables: Features,

Discover the features and benefits of OSFP flat-top DAC cables for high-speed, reliable, and thermally efficient

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FS Launches Cutting-Edge 1.6T OSFP Cable: Setting a New ...

FS has unveiled its latest innovative 1.6T OSFP DAC cables, which deliver up to 1600Gbps throughput at ultra-low

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1.6T OSFP DAC Passive High-Speed Cable_Baiduwiki

The 1.6T OSFP DAC Passive High-Speed Cable features high bandwidth, low latency, low power consumption, and cost

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Direct Attach Cable (DAC) Assemblies

Direct Attach Cable (DAC) Assemblies High-speed I/O passive cable assemblies that can deliver data rates as high as 400 Gbps

Dec 19, 2025

OSFP Connectors & Cable Assemblies

OSFP 224G Copper Cable Assemblies DAC / ACC / AEC TE Connectivity's (TE) next-generation OSFP 224G copper cable

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QSFP-DD Cables • OSFP Cables

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Unlocking the Potential of 400G/800G/1.6T OSFP InfiniBand Cables

Explore how FS 400G/800G/1.6T OSFP InfiniBand cables deliver high-speed, scalable, and thermally efficient

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800G OSFP DAC Cables: Specs, Benefits | Fibrecross

Discover specs and best practices for 800G OSFP DAC cables. Compare OSFP vs QSFP-DD, and trust Fibrecross for high-quality,

Nov 15, 2025

OSFP Cable Overview and Applications - aobla

5G networks and other telecom applications leverage OSFP cables for their high-speed backhaul connections. ##

Nov 15, 2025

800G OSFP to 4x200G OSFP Passive Breakout DAC Data Sheet | FS

FS's Octal Small Form-factor Double Density Pluggable solution achieving 800G transmission (hereafter referred to as OSFP) is

Apr 13, 2026

InfiniBand Cables Explained: HDR vs NDR, QSFP56 vs OSFP, DAC

Complete 2025 guide to InfiniBand cables: HDR (200G) vs NDR (400G), QSFP56 vs OSFP/QSFP112 connectors, DAC

Apr 05, 2026

OSFP Direct Attach Cables (200G/400G/800G DAC)

OSFP Cables (OSFP DAC Cables) by Amphenol Now In-Stock at Speeds up to 800.0 Gbps with 1600 Gbps Coming Soon!

Dec 18, 2025

FS Launches Cutting-Edge 1.6T OSFP Cable: Setting a New

FS unveiled 1.6T OSFP DACs, delivering 1600Gbps throughput with ultra-low power, ideal for hyper-scale data

May 17, 2026

FS Launches Cutting-Edge 1.6T OSFP Cable: Setting a New

These OSFP passive DAC cables leverage state-of-the-art 200G per lane optical technologies, achieving impressive

Sep 07, 2025

800G Twin-port 2x400G OSFP Passive DAC Cable

The 800G OSFP DAC cable contains 16 (8 transmitting and 8 receiving) high-speed copper pairs, each operating at

Mar 21, 2026

OSFP DAC verstehen: Die Zukunft von High-Speed-Direct-Attach

Entdecken Sie die Zukunft von Hochgeschwindigkeits-Direktanschlusskabeln mit Einblicken in OSFP DAC in diesem

Jan 16, 2026

OSFP Connector Guide: 400G and 800G Modules, DAC, AOC, ACC,

OSFP Connector Explained: Features and Benefits for 400G 800G Networks OSFP (Octal Small Form-factor)

Dec 03, 2025

OSFP – Defining a New Standard for High-Speed Connections

Amphenol's OSFP product portfolio offers customers a comprehensive and integrated link solution that features DAC

Jan 20, 2026

Direct Attach Copper (DAC) Cables

High-speed Volex Direct Attach Copper (DAC) cables deliver reliable, energy-efficient data transfer for data

Contact Us

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