

Certified Optical Electro-optical Hybrid Cable OSFP



Article Overview

Hybrid OSFP cables combine optical and electro-optical technologies to deliver high-speed, low-latency, and power-efficient interconnects for modern data centers, supporting up to 1.6T and beyond.

Overview

Certified Optical/Electro-optical Hybrid OSFP cables integrate both optical and electrical components to optimize performance in high-density, high-bandwidth environments such as AI, hyperscale, and cloud data centers. These hybrid cables leverage Hybrid Architecture Active Copper (ACC+) technology, which combines traditional active copper cable (ACC) and advanced electro-optical designs to reduce power consumption, latency, and cost while maintaining competitive reach and signal integrity at next-generation data rates (up to 1.6T and beyond) (FIBERSTAMP) .

Key Features

- **High Data Rates:** Supports aggregate bandwidths from 400G to 1.6T per cable, with lane speeds up to 224Gbps PAM4, and future-ready designs targeting 3.2T (Amphenol, TE Connectivity) .
- **Signaling Standards:** Compatible with 28G NRZ, 56G PAM4, 112G PAM4, and 224G PAM4 signaling, as well as PCIe® Gen 5 and Ethernet protocols (TE Connectivity, Amphenol) .
- **Thermal Management:** Integrated heatsinks and optimized airflow designs help m...

Article Content

OSFP Connectors & Cable Assemblies

TE's OSFP connectors and cable assemblies address next-generation data center needs by supporting aggregate data rates of

OSFP – GIGALIGHT

Active Optical Cables 1.6T OSFP224 AOC/HYBRID AOC 800G QSFP-DD AOC 800G OSFP AOC/HYBRID AOC 400G QSFP112

OSFP Loopback Modules

These OSFP loopback cable assemblies are offered in 3 configurations – Passive Electrical, Passive Thermal, and Active Thermal.

OSFP MSA Rev 5

Abstract: This specification defines the electrical connectors, electrical signals and power supplies, and mechanical and thermal

What are OSFP transceivers?

The Octal Small Form Factor Pluggable (OSFP) 112 Gbps PAM-4 Interconnect System and Cable Assemblies from Molex provide

DuetConnect™ Hybrid Cable

DuetConnect Hybrid Copper-Fiber Cables allow one cable to offer the advantages of DC power and fiber,

FAQ about OSFP Octal Small Form Factor Pluggable?

Q: What is the OSFP (Octal Small Form Factor Pluggable)? A: The OSFP is a new pluggable form factor with eight high speed

OSFP Cable Assemblies

Amphenol's octal small-form-factor pluggable (OSFP) cable assemblies are compatible with 25 G/lane channel NRZ

Credo's HiWire™ 1.6T OSFP-XD to OSFP-XD AEC Cable

Credo's HiWire™ CLOS Active Electrical Cable (CLOS AEC) A thin, low-power 1.6T AEC specifically designed for in-rack

OSFP Connectors, Cages & Cable Assemblies

TE Connectivity's (TE) Octal Small Form Factor Pluggable (OSFP) Connectors, Cages, and Cable Assemblies meet

OSFP (Octal Small Form Factor Pluggable) Copper Cable Assemblies

Our Electronics Products "Product of the Year" award-winning OSFP (Octal Small Form Factor Pluggable) cable assemblies are

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

OSFP AOC Cables: Active Optical Cables for Medium-Reach Data Center Applications
OSFP AOC uses multimode

OSFP Cable Assemblies | High Speed Input Output | Amphenol

Amphenol leading the industry in OSFP cable development. Our Electronics Products Product of the Year award-

Optical Transceiver Cable Guide: SFP+, QSFP28, OSFP & COBO

Which cable works with your optical transceiver? Match SFP+, QSFP28, OSFP & COBO interfaces correctly to avoid

Hybrid Cables

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

Hybrid ACC+ Copper Cable Solutions-800G OSFP /

By leveraging a patented Hybrid architecture that combines the strengths of existing PCC/ACC and AEC

ITU-T L.109.1 (11/2022) Type II optical/electrical hybrid cables for ...

The system consists of the power supply unit, optical/electrical hybrid cable, optical/electrical hybrid adapter, and the optical/electrical

OSFP Transceivers: High-Density Optical Connectivity from 400G to

Designed for high thermal capacity, electrical scalability, and forward compatibility, OSFP modules now drive

OSFP MSA Rev 5

OSFP-RHS nose shape is updated to avoid a potential interference with a connector (Fig 9-8). OSFP-RHS heatsink contact area is

Active Optical Cables

400G PAM4 OSFP Straight Throughs and Breakouts Regional Availability — Global
Siemon's 50G per lane PAM4 Ethernet or

Contact Us

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