High-speed cable assembly for optical modules



Overview

Active Optical Cables (AOCs) are high-speed interconnects that combine optical fiber with integrated transceiver modules at each end. An AOC resembles a standard cable assembly (e., QSFP or SFP form factor), but internally, it converts electrical data into laser light and back. Our Electronics Products 'Product of the Year' award winning OSFP (Octal Small Form Factor Pluggable) cable assemblies are compatible with 25G/lane channel NRZ up to 224G/lane channel PAM4 signaling protocols that allow the cables to deliver aggregate bandwidths of 200G, 400G, 800G, and 1. The cable assemblies include straight-through and breakout Direct Attach Cables (DAC), Active Copper Cables (ACC and AEC) and Active Optical Cables (AOC) in speeds ranging from 800G to 10G, in OSFP-Finned Top. Our active optical cable assembly portfolio provides greater cable flexibility and longer reach, as compared to both traditional passive copper solutions and emerging active copper (ACC/AEC) solutions, supporting high performance computing, data center, and networking interconnect applications. We. Amphenol's cable assemblies include simple point-to-point cables, custom high-power and high-speed data cable assemblies and complex multi-branch harness assembly for large systems across a broad range of end markets. Designed for modern data center, enterprise, and high-performance computing (HPC) environments.

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Article Content

Optical Devices-JPT Laser

JPT offers high-performance active optical cables and direct attach cables with high bandwidth, low latency, and strong compatibility. Perfect for data centers, cloud computing, and high-speed

OSFP Cable Assemblies | High Speed Input Output

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

High Speed Cable Assemblies | High-Speed

Independently tested to be interoperable with most major equipment manufacturers, Siemon interconnects deliver cost-effective, flexible support for your high-speed,

Active Optics Cable Assemblies | TE Connectivity

Our active optical cable assembly portfolio provides greater cable flexibility and longer reach, as compared to both traditional passive copper solutions and emerging active copper (ACC/AEC)

Cable Assemblies | Products | Amphenol

Our cable assemblies include the latest industry innovations in radio frequency (RF), fiber optics, high-power requirements and high-speed data transfer for the

Active Optical Cables (AOC) | Romtronic

Active Optical Cables (AOCs) are high-speed interconnects that combine optical fiber with integrated transceiver modules at each end. An AOC resembles a standard cable assembly

Active Optical Cables (AOC) | High-Performance Fiber Cables for 10G ...

Active Optical Cables (AOCs) are high-speed fiber cable assemblies that integrate active transceivers at both ends, enabling reliable data transmission over longer distances than copper alternatives.

High-Speed Cable Assemblies

Compatible with transceiver modules, our premium line of XGLO fiber cable assemblies meet stringent performance specifications and support 10, 25, 40, 50, 100, 200 and 400G no matter what the

High-Speed Cable Assemblies – Samtec | DigiKey

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Samtec''s high-speed cable assemblies breaks the constraints of traditional signaling substrate and hardware offerings, resulting in a cost-effective, high-performance

Active Optical Cables (AOC)

Molex Active Optical Cables (AOCs) achieve high data rates over long reaches, using a fraction of the power of other brands while providing streamlined

Optical Transceivers

Optical transceivers have revolutionized data transmission, providing high-speed, long-distance, and secure data transmission capabilities. Optical transceivers

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High-Speed Cable Samtec''s high-speed board-to-cable and Flyover® cable systems provide innovation for next generation architectures with industry leading

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Lasers, Optical Transceivers & HFC Networks

AOI designs and manufactures advanced semiconductors, laser components, optical transceivers, and RF access network equipment that support high

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