

CXP2 Active Optical Cable Assemblies

HIGH DENSITY, EXCELLENT PERFORMANCE AND RELIABILITY

Amphenol ICC's 300G CXP2 to CXP2 Active Optical Cable is a natural choice for optical cabling in data center / high performance computing hardware applications, providing a cost effective plug and play cabling solution. The CXP2 form factor delivers the highest hardware faceplate port density among existing SFF industry standards.

- Full duplex 12 channels transmissions
- Up to 300 Gb/s aggregate bandwidth
- Capable of transmitting data at rates up to 25.78125 Gb/s per channel
- Support CDR on/off control for 10.3125 Gb/s
- Power consumption per end: <6W



FEATURES

- Optical connectivity enables length up to 100m
- 24 cores multimode loose fiber with a 3.0mm round jacket
- Hot pluggable cable connector interfaces
- Accessible through two-wire Serial Interface
- Programmable input equalization, output amplitude, emphasis
- Support Ethernet, InfiniBand and CPRI data rates
- 0°C to +70°C operating case temperature

BENEFITS

- Allow for more flexible installation and build-out options
- Allow for direction independent routing without concern of signal loss
- Ensure plug and play operation and efficient installations
- Allows for connection discovery and cable management and improved serviceability
- Provide maximum flexibility for optimization
- Ensure secure interoperability and compatibility
- Supports commercial temperature range

TECHNICAL INFORMATION

MATERIAL

- OM3 and OM4 fiber cable is selectable with plenum rated or LSZH rated
- Die Cast Covers: Zinc with nickel plating
- Halogen free PCB material

ELECTRICAL PERFORMANCE

- Power Supply Voltage: 3.3V
- Data rate per lane: 25 Gb/s or 25.78125 Gb/s
- Power Consumption: <6W (max) per end w/ CDR on
- Transmitter Type: 850nm VCSEL
- Receiver Type: PIN-diode
- Bit Error Rate: <10⁻¹²

MECHANICAL PERFORMANCE

- Module Insertion Force: 150N Max
- Module Retention: 90N~170N
- Cage Retention(Latch Strength): 180N Min
- Durability: 250 cycles

ENVIRONMENTAL

- RoHS 6/6 Compliant
- Storage Temperature Range: -40°C to 85°C
- Operating Case Temperature Range: 0°C to 70°C
- Storage Humidity Range: 0 to 85% RH
- Operating Humidity Range: 0 to 85% RH

SPECIFICATION

- Infiniband Architecture Specification Volume 2, Release 1.2.1 Annex A6
- SFF-8642: Mini Multilane Series: Shielded Integrated Connectors

PACKAGING

- ESD Bag

TARGET MARKETS/APPLICATIONS



Switching



Data Center
High Performance Computing

PART NUMBER SCHEME

