



Amphenol Interconnect Products Corp.

## 40 Gb/s Direct Attached Active Optic Cables (AOC)

### QSFP AOC

InfiniBand™ / 40 Gigabit Ethernet / Fibre Channel / PCIe

Amphenol QSFP Direct Attached Active Optic Cables are a high performance, low power consumption, long reach interconnect solution supporting InfiniBand™, 40 Gigabit Ethernet, Fibre Channel and PCIe. AIPC's QSFP AOC's provide a high density, high bandwidth solution while exceeding industry standard for performance and reliability using Silicon CMOS Photonics Technology.

#### Interface

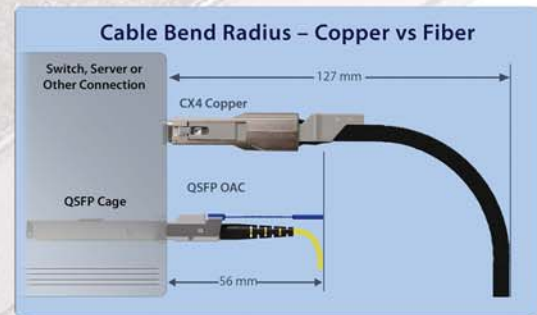
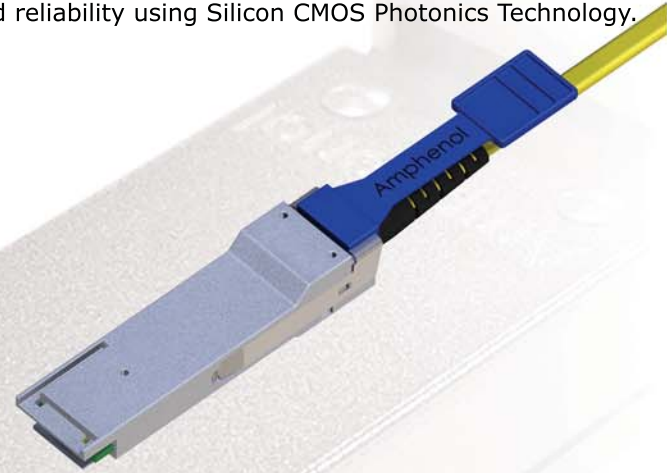
- > 38 position board-as-connector

#### Fiber Choice

- > Single Mode fiber optic cable running at 1490 nm wavelength

#### Key Features

- > Four channels transmit and receive
- > Lowest cost
- > Link distance to 4,000m
- > 3X Port density over SFP+
- > Up to 10.52 Gb/s channel for 42 Gb/s total throughput with all 4 channels powered by a single laser
- > Reduced power consumption of 780mW typical - 1.09mW max (25% lower than similar offerings)
- > Operating temperature of 0°C - 70°C
- > Less than 10<sup>-18</sup> Bit Error Rate
- > Uses CMOS Photonics and consolidated chip design
- > Fewer components and higher reliability than VCSEL technology
- > Low Latency: 2ns per TX/RX pair + 5ns/m of fiber
- > 5mm bend radius
- > 50lb cable pulling strength
- > Intrusion Detection and Protection (IDP) Features
- > QSFP+ SFF-8436 form factor



#### Applications

- > InfiniBand™ QDR, 40 Gigabit Ethernet, Fibre Channel, PCIe
- > Switches, Routers, and HBA/HCA's
- > Data Centers
- > High Performance Computing (HPC) & Storage
- > Improved cable management as compared to copper

#### Complimentary Products

- > QSFP+, QSFP+ Active Linear and Limiting
- > QSFP+ Loopbacks, SFP+ Optical Transceivers/Modules

