

CFP8

Amphenol’s CFP8 interconnect system has 124 contacts per port, with a 0.5mm contact pitch and 16 high speed channels. It is rated for 28Gb/s per channel with resonance dampening for improved signal integrity. It is comprised of insert molding assemblies for top side contacts and Press-Fit cage assemblies. The CFP8 series includes a plug connector on the mating interface to improve accuracy and aid in delivering high speed performance. CFP8 has the ability to be a customized solution with an optional riding heat sink that ensures proper thermal dissipation. It is also compliant with IEEE and ITU-T applications.

- Operating at 28Gb/s NRZ and 16 channels or 56Gb/s PAM-4 and 8 channels for up to 400Gb/s aggregated bandwidth solution
- The CFP8 supports eight times and four times the bandwidth-density of CFP and CFP2 form factors, respectively
- Enables 400Gb/s Ethernet applications in large data center applications
- Meets CEI-56GPAM4 VSR requirements

TECHNICAL INFORMATION

MATERIAL

- Housing: Black color, Glass reinforced, Lead Free Solder Reflow Process Compatible Thermo Plastic
- Contacts Base Material: Phosphor Bronze
- Plating Solder Tails: Matte tin
- Plating Mating Area: Gold
- Resonance Dampening Feature: Conductive Polymer

MECHANICAL PERFORMANCE

- Durability: 200 mating cycles
- Mating Force: 80 N max.
- PCB Thickness (Cage): 3.00 mm (0.118 in.)
- Unmating Force (Cage): 50 N

ELECTRICAL PERFORMANCE

- Operating Voltage: 3.3 V DC per contact
- Operating Current: 7.5 A per contact



TARGET MARKETS



SPECIFICATIONS

- CFP MSA CFP8 Hardware Specification
- EIA 364

ENVIRONMENTAL

- Operating and (Storage) Temperature: -40°C to +85°C
- RoHS & Halogen-Free

TOOLING INFORMATION

- Configurations: 1X1, 1X2

PACKAGING

- Plug Conn: Tray
- Receptacle Conn: Tape and Reel
- Cage Kit: Tray

TARGET MARKETS/APPLICATIONS



Metro Area Networks



Carrier Networks and Data Centers
Large Data Center Campus Connectivity

FEATURES

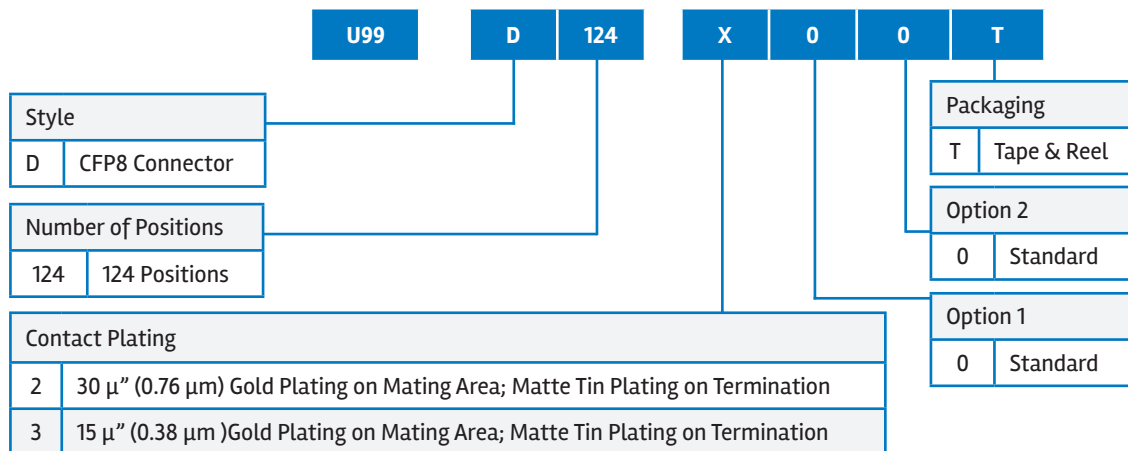
- Enables 28Gb/s NRZ and 56Gb/s PAM4 per channel transmission
- Several cage configurations
- Multiple heat sink options
- MSA supported standard interface
- RoHS compliant

BENEFITS

- 400G aggregate bandwidth capacity
- Single (1x1) and ganged (1x2)
- Allows user to choose from multiple options to maximize heat dissipation
- Amphenol offering meets or exceeds MSA defined product specifications
- Environmentally friendly

PART NUMBER SELECTOR

CFP8 Host Connector



CFP8 Cage

