

CXP Passive Copper Cable Assemblies

120G/168G/300G

Amphenol’s CXP passive copper cable assemblies are designed to meet the high bandwidth capacity demands being requested by data center and high performance computing applications. The CXP copper cables are a high density cabling interconnect system capable of delivering aggregate data bandwidths of 120Gb/s and 168 Gb/s. This interconnect system is fully compliant with the IBTA’s (InfiniBand Trade Association) Architecture Specification, Volume 2, Release 1.3 as well as the Small Form Factor industry standard SFF-8642. The CXP cables support the bandwidth transmission requirements as defined by IEEE 802.3ba (120 Gb/s) as well as Infiniband’s QDR (12x10 Gb/s per channel) and FDR (12x14 Gb/s per channel) specifications.

The cables are offered in both 26AWG and 30AWG cable sizes for QDR and 28AWG and 30AWG for FDR and feature a rugged diecast cover, an easy to use release pull tab, industry standard complaint EEPROM and memory map, and a robust cable strain relief to assure proper wire termination isolation.

Amphenol manufactures these cable assemblies using highly controlled and stable cable assembly manufacturing processes to minimize wire management and termination variations that impact the performance of the cable assembly. Robust final SI based testing and quality systems assure high quality cable assemblies conforming to the high-speed electrical performance requirements in the noted industry standard specifications.



TARGET MARKETS



FEATURES AND BENEFITS

- Fully compatible with IEEE802.3ba and Infiniband QDR & FDR specifications
- Allows for 10Gb/s & 14Gb/s per channel transmission; aggregate of 120 Gb/s & 168 Gb/s total bandwidth
- Robust diecast covers for superior EMI shielding effectiveness and cable strain relief
- 30 AWG and 26 AWG cable sizes for QDR and 30 AWG and 28 AWG cable sizes for FDR available
- RoHS compliant
- 100 ohm differential impedance system
- PCB interface board design that optimizes signal integrity performance
- Industry standard defined EEPROM & memory map for cable signature & system communications
- Compliments Amphenol’s active optical cable assembly solutions to deliver complete cable solutions from 0.5 up to 100 meters
- Halogen Free and PVC cable jacket option