CDFP PCIe® 5.0 Cable Assemblies

Amphenol CDFP cable assemblies are designed to meet emerging data center and high-performance computing application needs for high density cabling interconnect systems capable of delivering 32GT/s per lane (Gen 5.0). CDFP has 16 lanes, capable to deliver 64Gb/s. This interconnect system is fully compliant with existing industry standard specifications SFF-TA-1032. The CDFP cables support bandwidth transmission requirements as defined by PCIe® 5.0 standards.

Amphenol offers cable assemblies that enable the use of a copper-based interconnect system for applications with cable lengths up to 2.50m with passive design.

- PCIe® Gen 5.0
- Exceeds 64Gb/s with optimized PCB and auto soldering
- Enjoy a reduced power budget and lower port cost compared to optical
- Supports up to a max of 2.50m for passive in 28AWG
- Fully compatible with different I/O connector brands in the industry

TARGET MARKETS

FEATURES

- Fully compliant to the latest SFP MSA
- Optimized PCB with auto soldering process
- Robust zinc die cast CDFP connectors with pull-to-release latching
- EEPROM in cable assembly
- Enables 32GT/s per channel transmission
- 30AWG-28AWG cable sizes
- RoHS 2 compliant

BENEFITS

- Support to connect any security free CDFP PCIe® port
- Exceeds 32GT/channel electrical performance requirement
- Assure 360° EMI shielding and easy latch release
- Industry memory map compliance or customized
- Supports industry PCIe® 5.0 standards
- Supports cable length from 0.25m to 2.50m
- Environmentally friendly

TECHNICAL INFORMATION

MATERIAL

- Nickel plated Zinc die cast shells & latching mechanism parts
- EM-888k laminated PCB with Gold finger pads and Solder pads
- Differential 16-pair cable with EMI shielding braid and LSZH or PVC jacketing
- Thermoplastic cable pull tab (pull-to-release)

ELECTRICAL PERFORMANCE

- Differential Impedance: 85Ω ± 10Ω
- SI performance per PCIe® 5.0
- Dielectric Withstanding Voltage per EIA 364-20

MECHANICAL PERFORMANCE

- Durability: 50 cycles
- Mating Force: 40N max.
- Latch Strength; Axial Load: 180N min.
- Cable Axial Strain Relief: 90N min.
- Cable Flex: 180° flex; 15 cycles per EIA 364-41

ENVIRONMENTAL

- Thermal Shock: EIA 364-32, Condition 1, 25 cycles, -55°C to 85°C
- Temperature Life: EIA 364-17, Method A, Condition 2, Time Condition C, 500 hours, 70°C

APPROVALS AND CERTIFICATIONS

- PCIe® 5.0
- RoHS 2 compliant

PACKAGING

- Individually packed in anti-static bags
- Cable ends packaged with dust covers

SPECIFICATION

- Individually packed in anti-static bags
- Cable ends packaged with dust covers

TARGET MARKETS/APPLICATIONS

Adapter Card
Routers
Switches
Wireless BBU

Data Center
High Performance Computing (HPC)
Server
Storage

PART NUMBERS

Description	Type	Part Numbers	Type
CDFP PCIe 5.0 Copper Cable	CDFP, 85Ω, 28AWG	0.25m	NERREV-0022
CDFP PCIe 5.0 Copper Cable	CDFP, 85Ω, 28AWG	0.50m	NERREV-0006
CDFP PCIe 5.0 Copper Cable	CDFP, 85Ω, 28AWG	0.75m	NERREV-0021
CDFP PCIe 5.0 Copper Cable	CDFP, 85Ω, 28AWG	1.00m	NERREV-0001
CDFP PCIe 5.0 Copper Cable	CDFP, 85Ω, 28AWG	1.25m	NERREV-0012
CDFP PCIe 5.0 Copper Cable	CDFP, 85Ω, 28AWG	1.50m	NERREV-0007
CDFP PCIe 5.0 Copper Cable	CDFP, 85Ω, 28AWG	1.75m	NERREV-0013
CDFP PCIe 5.0 Copper Cable	CDFP, 85Ω, 28AWG	2.00m	NERREV-0002
CDFP PCIe 5.0 Copper Cable	CDFP, 85Ω, 30AWG	0.25m	NERREW-0022
CDFP PCIe 5.0 Copper Cable	CDFP, 85Ω, 30AWG	0.50m	NERREW-0006
CDFP PCIe 5.0 Copper Cable	CDFP, 85Ω, 30AWG	0.75m	NERREW-0021
CDFP PCIe 5.0 Copper Cable	CDFP, 85Ω, 30AWG	1.00m	NERREW-0001
CDFP PCIe 5.0 Copper Cable	CDFP, 85Ω, 30AWG	1.25m	NERREW-0012
CDFP PCIe 5.0 Copper Cable	CDFP, 85Ω, 30AWG	1.50m	NERREW-0007
CDFP PCIe 5.0 Copper Cable	CDFP, 85Ω, 30AWG	1.75m	NERREW-0013
CDFP PCIe 5.0 Copper Cable	CDFP, 85Ω, 30AWG	2.00m	NERREW-0002

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