

AMPHENOL ASSEMBLETECH

STORAGE SOLUTIONS: Multi-Lane Assemblies (SAS/SATA)

Amphenol is an active member of the Serial ATA and Serial Attached SCSI Standard working groups and offers one of the broadest product lines to support the emerging markets for SATA and SAS applications. Multi Lane is covered in SATA II and by SFF-8484 for SAS.

The need for multiple Hard Disk Drives in a serial bus application, requires an interconnect capable of handling multiple lanes of data. The Multi-Lane interconnect system supports both 2 Lane and 4 Lane applications. Both products also contain 6 Sideband Signals for system management such as I2C and LED's.

Features and Benefits

High performance cable: Differential pair signaling with less than 5ps/m in pair skew. Cable construction provides improved EMI.

Signal Integrity: Amphenol Spectra Strip cable technology provides end-to-end signal integrity. Our process controlled termination assures performance at both SATA I (1.5Gbs) and SATA II (3.0Gbs) as well as SAS (3.0Gbs) data rates in the same cable.

Smaller cable package: Thinner and more flexible cables allow for more efficient routing with improved airflow and thermal mechanics. Configuration of storage devices is simplified.

Cost effectiveness and Scalability: World class manufacturing to support the Desktop PC market cost drivers and reliability of the Server market. Future proof technology allows storage manufacturers to continue to increase performance with SATA and SAS.

RoHS: Amphenol Multi-Lane SATA/SAS assemblies are RoHS compliant today!

Applications and Markets:

- Host Bus Adapters
- Desk tops and Workstations
- Hard Drive Backplanes
- Servers
- Backplane interconnect
- SATA and SAS
- Multimedia
- Network and RAID Storage

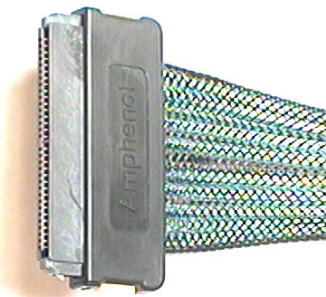
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Product Solutions and Configurations

- Straight, R/A and Side Exit backshell configurations.
- Fanout assemblies to SATA and to SAS.
- 2 Lane and 4 Lane products.
- 26 AWG and 30 AWG Products.
- Host Base and Target Base Fan-out Cables
- Fan-out Cables with and without Sideband signals
- Loop back assemblies.

Multi-Lane Straight



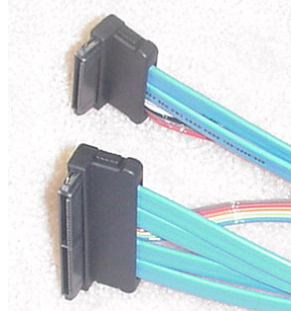
Side Exit & Low Profile



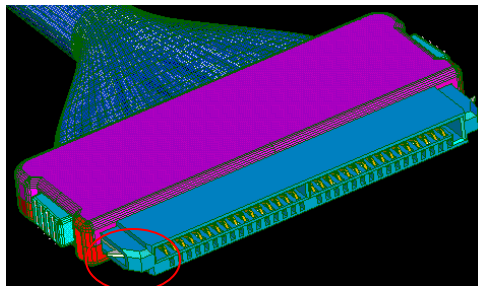
Fan-out to SATA



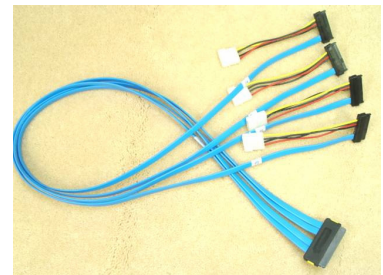
2 & 4 Lane Right Angle



Multi-Lane Positive Retention



Fan-out to SAS



For information please contact:

Amphenol AssembleTech Sales
281-340-6500 x150
Email: Sales@assembletech.com

Amphenol is one of the largest manufacturers of interconnect products in the world. The Company designs, manufactures and markets electrical, electronic and fiber optic connectors, a wide range of coaxial, high speed and flat-ribbon cables, and interconnect systems.