

AMPHENOL ASSEMBLETECH

STORAGE SOLUTIONS: Serial ATA (SATA) Cable Assemblies

Amphenol is an active member of the Serial ATA Standard working group and offers one of the broadest product lines to support the emerging market for SATA applications.

The market demand for increased speed and storage capacity to support the digital picture revolution, increased complexity of the gaming industry and DVD recorders is thrusting the new SATA hard disk drives into the mainstream of data storage. In addition to the wide range of PCB level products, Amphenol AssembleTech offers cable assemblies with the performance to support the market's requirements.

Features and Benefits

High performance cable: Differential pair signaling with less than 5ps/m in pair skew. Cable construction provides improved EMI. Successor to ATA-100 that meets both the 1.5Gbs and 3.0Gbs data rates.

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) 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. Future proof technology allows storage manufacturers to continue to increase performance with SATA.

RoHS: Amphenol SATA assemblies are RoHS compliant today!

Applications and Markets:

- Set top boxes
- Desk top and Notebook PC
- Hard Drives
- Servers
- Backplane interconnect
- Digital audio and optical drives
- Multimedia
- Network and RAID Storage

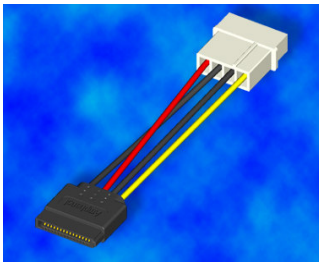
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Product Solutions and Configurations

- Straight, R/A and Reverse R/A cable exits.
- Crossover cables (Green Overmold = pin 1 to 7).
- 26 AWG and 30 AWG Cable
- Data and Power cable assemblies.
- Combo (data and power) cable assembly.
- External (Shielded) cable assembly.
- Drive Extension cable assembly.
- Power dongles (traditional power to SATA adapters).
- Latched (Errata 43) data cable assemblies.
- Loop back assemblies.

Power



Latch (Errata 43)



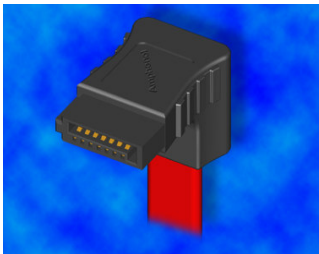
eSATA



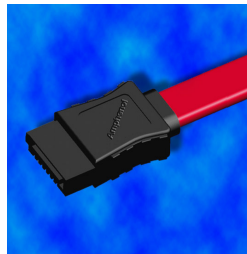
Fan-out



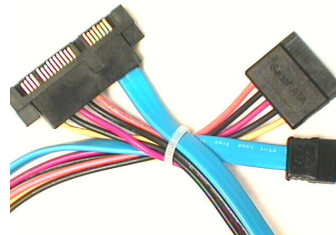
Right Angle



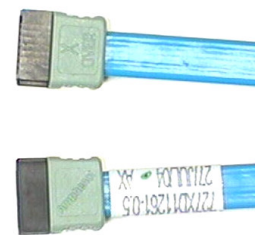
Straight



Drive Extension cables



Crossover (1-7)



For information please contact:

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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.