

*Now you're connected!*

## Product Overview

Amphenol's commercial connector products are used in a variety of end user applications including networking, telecom, storage & server, automotive, wireless, mobile devices as well as any industry standard.

The product portfolio from Amphenol East Asia includes SAS/Micro SAS/SATA Express/SATA/Micro SATA/Slim SATA/SCA2/SCSI Express /M.2 in storage connectors, HSD/Power/Pin Header/Socket/Terminal Block/USB3.0/Micro HDMI in automotive connectors, DSUB/Micro Ribbon/Mini D Ribbon in external I/O connectors, SIM/Micro SIM/SD/SD Combo/Micro SD card holder connectors in mobility system solutions and Power connectors with very wide current options from 1Amp to 1000Amp in any industry.

## SATA/Micro SATA Connector (Socket/Plug)

Amphenol's Serial ATA Connector is a type of internal storage connector, providing socket on a host to mate with plug residing on device of Hard Disk Drive (HDD) or Solid State Driver (SSD) or Solid State Hybrid Drive (SSHD) in computer applications. SATA/Micro SATA is compliant to Serial ATA IO specification. Amphenol's Micro SATA connector can be used for 1.8" HDD device.

Amphenol focused on storage connector market over 20 years and is leading in SI technology and our professional design experience can meet your need no matter standard requirements or product specialty.

## Product Features

- Various configurations to fit customer's standard or special requirements.
- Several data transfer speed of 3.0Gbps, 6.0Gbps, and 12Gbps only when required.
- Hot Plug and Blind Mating Design

## Applications

It can be used in any application based on Serial-ATA (SATA) drive as follows.

- Data: Notebook PCs, servers, servers and storage blades, external storage systems, HDDs, HDD carriers.
- Communications: processor and storage blades, mezzanine cards
- Industrial, instrumentation and medical: embedded system boards

## How to define your SATA/Micro SATA connector

Series	Gender	Data Speed	Termination	Configurations	Housing Material and Color	Mounting Accessory	PCB Layout	Contact Plating	Packing
SATA	Socket	3Gbps 6Gbps 12Gbps	SMT	15P+7P	LCP , Black PPA, Black .....	No accessory Latch Design Solder Tab .....	Standard  Tailor - Made	0.76um Au 0.38um Au Gold flash .....	Tray Cover Tape& Reel Tube
Micro SATA	Plug		PTH	9P					
			Press fit	7P or 7P X					

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## Related Products

Amphenol manufactures a complete product range of SATA/Micro SATA connector with data transfer speed rate of 3Gbps and 6Gbps. Please contact your local Amphenol representative for details



## Electrical Data

- Current: 1.5A per pin (Power Segment)
- Dielectric strength: 500 VAC for 1 minute min
- Insulation resistance: 1,000 mega ohm min
- LLCR: 30 million ohm max (initial)
- Data rate: 6Gbps

## Mechanical Data

- Material:
  - Housing: High temperature thermoplastic, UL 94V-0
  - Contact: Copper Alloy
  - Solder Tab/Solder blade: Copper Alloy
- Contact Plating: Au/Ni on mating area and Sn/Ni on soldering area
- Insertion Force: 45N Max
- Withdrawal Force: 10N Min

## Environmental Data

- Operating temperature: -25°C~+70°C
- Storage temperature: -40°C~+80°C

## Typical 6G SATA/Micro SATA Connector

6G SATA, R/A SMT Plug  
P/N: SATA0010011XXX



6G SATA, R/A SMT Plug  
P/N: SATA0010020XXX



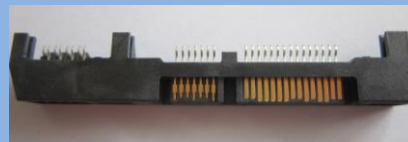
6G SATA, R/A SMT Plug  
P/N: SATA0010023XXX



6G SATA, R/A SMT Plug  
P/N: SATA0010017XXX



6G SATA, R/A SMT Plug  
P/N: SATA001024XXX



6G Micro SATA, R/A SMT Plug  
P/N: MSATA0010016XXX

