

The Maximum PC Plug 'n' Connector Reference

A visual tour of your PC's ins and outs

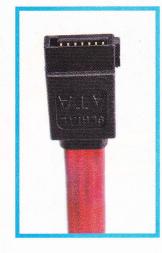
omputers are so ubiquitous these days that it's only a matter of time before you see a FireWire 800 cable as a visual Daily Double on Jeopardy! Don't be the laughingstock of the country by blowing an easy one like that on national television. Check out our guide to the most essential plugs and connectors in today's PCs, put on a nice suit, and hit the buzzer with confidence and pride.





IDE (integrated drive electronics)

The hoary standard for hard drives, Zip drives, and opticals Bandwidth: Up to 133MB/s



Serial ATA

Next-gen connector for hard drives, and soon optical drives as well

Bandwidth: 150MB/s Connector: 4-pin data

cable



Serial (RS-232)

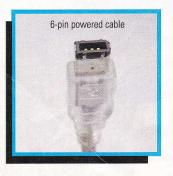
Medieval port used for modems and old handhelds

Bandwidth: 115.2Kb/s; 230.4Kb/s (high-speed) Connector: DB9











FireWire (IEEE 1394a)

Standard for linking DV cameras and high-speed peripherals

Bandwidth: 400Mb/s

Note: External FireWire devices that use the small 4-pin unpowered jack will require a separate power source.

USB (universal serial bus), **USB 1.1, USB 2.0**

Bandwidth: 1.5Mb/s (USB 1.1), 12Mb/s (USB 1.1), 480Mb/s (USB 2.0)



Parallel (IEEE 1284)

Once the standar for external peripherals and printers

Bandwidth: 2MB/ **Connector: DB25**









Power Supply (3.3v, 5v, 12v)

Enables transition of PC and components from "off" state to "on" state



DVI (digital visual interface)

For connecting digital displays (LCDs) Connector: 20-pin DVI-D or DVI-I cable



VGA (video graphics adapter)

For connecting analog displays (CRTs) Connector: DB15 15-pin **VGA** connector



FireWire 800 (IEEE 1394b)

Doubles the data rate of the original FireWire spec

Bandwidth: 800Mb/s Connector: 9-pin

cable



CD Audio/SPDIF (Sony/Philips digital interface)

Obsolete connection for digital audio (replaced by digital audio through the parallel connection) Connector: 2- or 4-pin cable



Floppy Ye Olde Floppy Drive

Bandwidth: Up to 1Mb/s Connector: 34-pin ribbon

cable



Ethernet

Tipper invented this networking protocol while Al was busy with the Internet

Bandwidth: 10Mb/s, up to 1Gb/s for Gigabit

Ethernet

Connector: RJ45 connectors (that's telephone cables,

folks)



CardBus

The 32-bit CardBus replaced the 16-bit PC Card (PCMCIA) bus for connecting peripherals to laptops

Bandwidth: 133MB/s

Connector: 68-pin connector

Note: Never try to force a CardBus peripheral into the slot; a difficult entry may mean the card is an older PC Card that has different power requirements than what your laptop may require. Check the documentation!