

Quick Reference Guide: Interconnects for the IEEE 1394 Standard

This product conforms to the IEEE 1394 Standard. With only one type of connector, you can connect several different pieces of digital peripheral equipment. The IEEE 1394 Standard connector series is capable of accommodating data rates up to 400 Mbps for serial transmission consisting of 6 position connectors, for connections of computers to peripherals, and the 4 position connectors for connections of digital AV equipment. For connections of computers to digital AV equipment, 4 position to 6 position transition type cable assemblies are used. In order to cope with a wide range of device designs, headers of 4 position connectors are suitable for DVD, STB, etc., and are provided with screw thread size of M1.6, and are available in DIP and SMT types. Cable assemblies are also available in 4 position to 4 position type for connection of AV equipment, 4 position to 6 position transition type for connections of PC and AV equipment, and 6 position to 6 position type for connections of PC and peripherals.

FEATURES AND BENEFITS

- Conforms to IEEE 1394 Standards (4 position, 6 position)
- Easy connections to equipment (4 position, 6 position)
- For use with plug and play devices
- Panel mounting screw thread sizes of PC board side are of M1.6 and M2.1 (4 position)
- DIP types and SMT types are available for PC board side (4 position, 6 position)
- Applicable for automatic mounting machines with embossed tapes (4 position)
- FPC is also applicable to the 4 position connectors

PRODUCT APPLICATIONS

- Cameras
- Camcorders
- Scanners
- Printers
- DVD Players
- Set-Top Boxes
- Computer Monitors
- Audio Video Receivers
- Hard Drives
- Audio Recording Devices

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http://www.tycoelectronics.com/products/IEEE1394

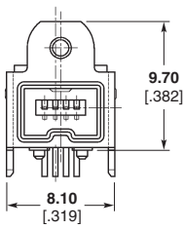
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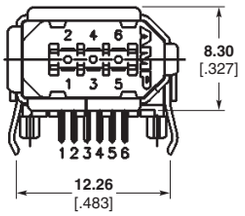
Interconnects for the IEEE 1394 Standard

PRODUCT SIZES

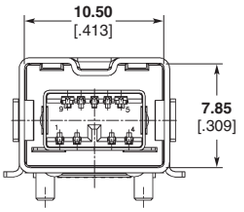
4 Position



6 Position



9 Position



IEEE 1394 STANDARD – USB INTERCONNECTS COMPARISON CHART

	IEEE 1394 Standard	USB 2.0 Interconnects
Printed Data Rate	400 Mbps	480 Mbps
Sustained Data Rate (Read)	38 MB/s	33 MB/s
Sustained Data Rate (Write)	35 MB/s	27 MB/s
Cycle Life	1000 cycles (4 Position) 1500 cycles (6 Position)	1500 cycles
Architecture	Peer to Peer	Master / Slave
Advantages	Well suited to accommodate multimedia devices	Lower cost, standard on most computers
Drawbacks	Higher cost, not standard on personal computers	Must be used in conjuction with a computer

4 POSITION

	Part Number	Gender	Orientation	Board Mount	Tail Length	Feature
 353388	353388-1	Receptacle	Right Angle	Through Hole	2.00	Flange M1.6
	1-1734056-1	Receptacle	Right Angle	Through Hole	2.60	Boss
	1-1734056-2	Receptacle	Right Angle	Through Hole	2.60	Without Boss
 1123843	1123843-1	Receptacle	Right Angle	Surface Mount	3.85	Flange M1.6
	1318141-1	Receptacle	Right Angle	Surface Mount	N/A	Flange Ø2.
	1318140-1	Receptacle	Right Angle	Surface Mount	N/A	Without Boss
 1674260	1674260-1	Receptacle	Right Angle	Through Hole	2.80	Stacked
	1318714-1	Receptacle	Vertical	Through Hole	2.00	Flange M1.6
 1318714	1734681-1	Receptacle	Edge Mount	Through Hole	2.00	
	1734194-1	Receptacle	Edge Mount	Surface Mount	N/A	
	1717700-1	Plug Kit	Plug Kit	N/A	N/A	N/A

PRODUCT SPECIFICATION: 108-5157

Note: All part numbers are RoHS compliant.
All dimensions in mm unless otherwise stated.

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6 POSITION

	Part Number	Gender	Orientation	Board Mount	Tail Length	Color
 5788516	5788516-1	Receptacle	Right Angle	Through Hole	2.00	Black
	1734368-1	Receptacle	Right Angle	Surface Mount	SMT	Black
 1734290	1734368-2	Receptacle	Right Angle	Surface Mount	SMT	Natural
	1734290-1	Receptacle	Vertical	Through Hole	2.69	Black
 5787956	1734290-2	Receptacle	Vertical	Through Hole	3.18	Black
	5787956-1	Receptacle	Flag	Through Hole	3.36	Black
 5787950	5787950-1	Plug Kit	Cable Plug	N/A	N/A	Gray

PRODUCT SPECIFICATION: 108-1606

9 POSITION

	Part Number	Gender	Orientation	Board Mount	Tail Length	Color
 1734047	1734047-1	Receptacle	Right Angle	Surface Mount	SMT	Black
	1775021-1	Plug Kit	Cable Plug	N/A	N/A	Black

PRODUCT SPECIFICATION: 108-57567

CABLE ASSEMBLIES

	Base Number	Available Lengths (m)
4 Position to 4 Position	1123076 6324771	0.5 - 4.5 0.3 - 0.5
4 Position to 6 Position	6324771 1324770	0.7 - 4.5 0.3 - 0.5
6 Position to 6 Position	1324770	0.7 - 4.5

Note: All part numbers are RoHS compliant.
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QUESTIONS TO ASK AT DESIGN IN

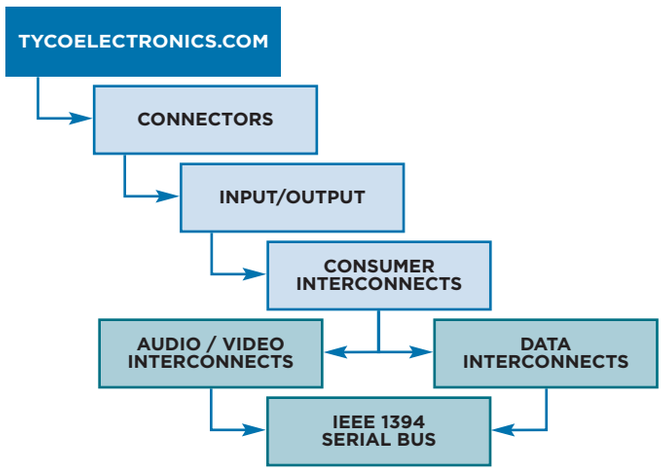
- What is the standard data transfer rate for Interconnects for the IEEE 1394 Standard?
  Interconnects for the IEEE 1394 Standard can achieve data transfer rates of up to 400Mbps.
- What are the differences between IEEE 1394 and USB?
  See IEEE 1394 Standard - USB Interconnects Comparison Chart on page 2.
- There are only base numbers listed in the Cable Assembly section, how do I find the exact part number?
  The part numbers for IEEE 1394 Standard cable assemblies are based on cable length. For more details go to www.tycoelectronics.com. You will find Interconnects for the IEEE 1394 Standard by selecting cable assemblies and then copper industry standard.

YOU ARE HERE (E-CATALOG)

Link

http://www.tycoelectronics.com/products/IEEE1394

Breakdown From Main Page



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- Cross-Reference from Non-compliant to Compliant Products
- Ability to browse RoHS Compliant Products in our on-line catalog
- Downloadable Technical Data Customer Information Presentation
- More detailed information regarding the definitions used above

RoHS Customer Support Center

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CPF0402B37K4E1 MPT100C18RF 2380312-2 1-962915-1 1743455-2 1903112-2 1969656-1 3631B101LL
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