



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

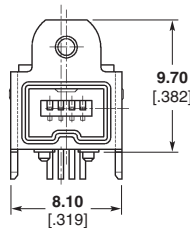
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<http://www.tycoelectronics.com/products/IEEE1394>

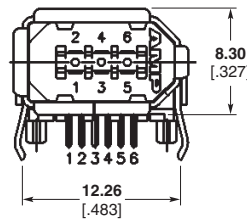
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PRODUCT SIZES

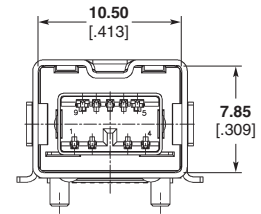
4 Position



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 conjunction with a computer |

4 POSITION

| | Part Number | Gender | Orientation | Board Mount | Tail Length | Feature |
|---|-------------|------------|-------------|---------------|-------------|--------------|
|  | 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 |
| | 1123843-1 | 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 |
| | 1674260-1 | Receptacle | Right Angle | Through Hole | 2.80 | Stacked |
|  | 1318714-1 | Receptacle | Vertical | Through Hole | 2.00 | Flange M1.6 |
| | 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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<http://www.tycoelectronics.com/products/IEEE1394>

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 | 0.5 - 4.5 |
| | 6324771 | 0.3 - 0.5 |
| 4 Position to 6 Position | 6324771 | 0.7 - 4.5 |
| | 1324770 | 0.3 - 0.5 |
| 6 Position to 6 Position | 1324770 | 0.7 - 4.5 |

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

Interconnects for the IEEE 1394 Standard

QUESTIONS TO ASK AT DESIGN IN

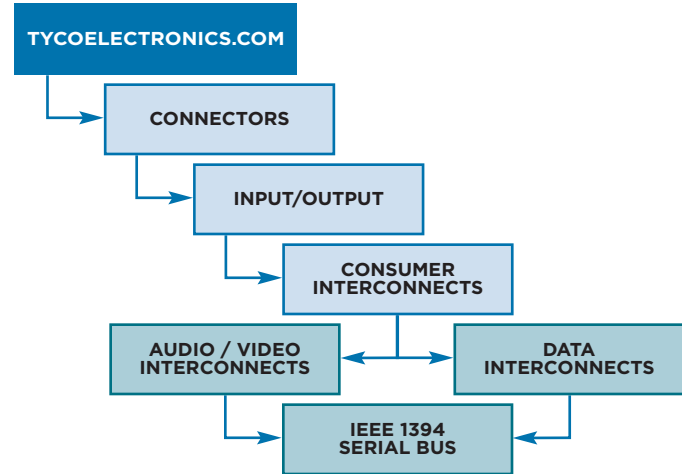
- What is the standard data transfer rate for Interconnects for the IEEE 1394 Standard?
Interconnects for the IEEE 1394 Standard can achieve data transfer rates of up to 400Mbps.
- What are the differences between IEEE 1394 and USB?
See IEEE 1394 Standard - USB Interconnects Comparison Chart on page 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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