

Quick Reference Guide: USB Interconnects

Tyco Electronics, a standing member of the USB-IF (USB Implementers Forum), offers a wide range of products to meet your interconnect needs. Tyco Electronics offers products that accommodate the two differentially driven data wires that provide bi-directional, simultaneous signals for USB 2.0 (480 mbps) and USB 1 (1.5 & 12 mbps).

The wide variety of Tyco Electronics' USB offerings include: standard (A & B), mini B, and micro A/B and B sizes. Tyco Electronics also offers locking versions of its standard USB as well as latching versions of its standard and micro USB.

Tyco Electronics' USB system has applications in many I/O devices, including: desk and laptop computers; keyboards, mice and joysticks; printers and scanners; game ports, serial port devices, digital audio, modems and portable storage devices. Applications also include data exchange and charging capabilities for most handheld devices, such as: cell phones, GPS devices, and MP3 players.

Tyco Electronics' USB system consists of board mount receptacles and their mating cable mount, overmolded plugs. Board mount receptacles are available in numerous configurations, including: surface mount, through hole, flag, vertical, and multi-port, adding to the system's ability to meet USB applications.

FEATURES AND BENEFITS

- Complete family of board mount receptacles, including various orientations and PCB mounting styles
- Cable mount overmold plug kits for all USB sizes and types
- Consolidates serial parallel, keyboards, mice and game ports
- Compatible with asynchronous and isochronous data transfer methods
- Polarized for proper orientation
- Plug and Play capability
- Hot pluggable, permitting attaching or detaching peripherals without power down or reboot
- Allows for charging

PRODUCT APPLICATIONS

- Desktop and Laptop Computers
- Keyboards
- Mice
- Joysticks
- Printers
- Scanners
- Game Ports
- Digital Audio
- Modems
- Portable Storage Devices
- Cell Phones
- GPS Devices
- MP3 Players

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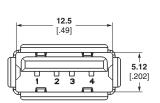


USB Interconnects

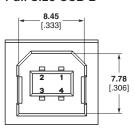
PRODUCT SIZES



Full Size USB A



Full Size USB B

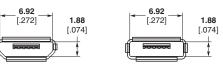


Mini USB B



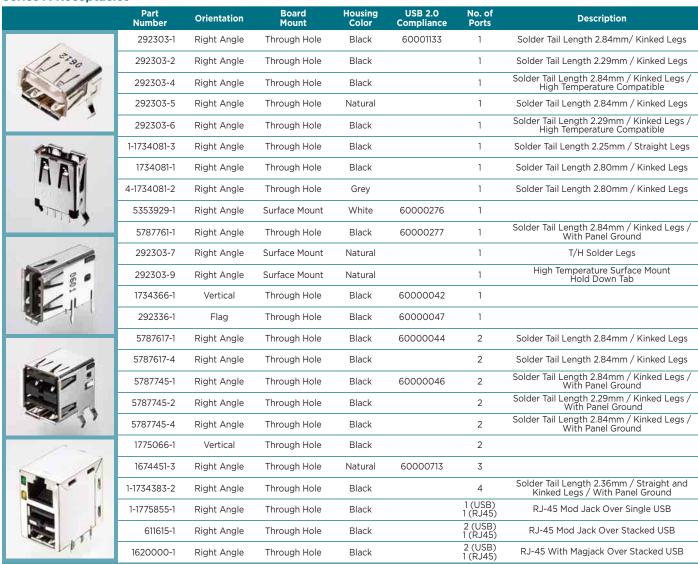
Micro USB B





FULL SIZE USB

Series A Receptacles



FULL SIZE USB

Series A Plug Kits



Part Number	Orientation	Board Mount	Housing Color	USB 2.0 Compliance	No. of Ports	Description
1734080-1	Right Angle	Surface Mount	Black		1	
1734028-1	Right Angle	Surface Mount	Natural		1	
1734080-2	Right Angle	Surface Mount	White		1	
1734372-1	Vertical	Solder Tabs	Black		1	

USB Interconnects

FULL SIZE USB



Locking

	Part Number	Orientation	Board Mount	Gender	Housing Color	USB 2.0 Compliance	No. of Ports	Description
	1775690-2	Vertical	Through Hole	Rcpt.	Black		1	
	2041039-1	Right Angle	Through Hole	Rcpt.	Black		1	

FULL SIZE USB

Latching

Part Number	Orientation	Board Mount	Gender	Housing Color	USB 2.0 Compliance	No. of Ports	Description
2040305-1	Vertical	Solder Tabs	Plug Kit	Black		1	Integrated Latches
2013798-1	Vertical	Solder Tabs	Plug Kit	Black		1	Mass Production

FULL SIZE USB

Series B Receptacles

	Part Number	Orientation	Board Mount	Housing Color	USB 2.0 Compliance	No. of Ports	Description
- C	292304-1	Right Angle	Through Hole	Black	60001134	1	Shell Plating: Bright Tin Over Nickel
	292304-2	Right Angle	Through Hole	Natural		1	
	292317-4	Right Angle	Through Hole	Black		1	Shell Plating: Nickel, Matte Tin on Tails
	1734346-1	Right Angle	Surface Mount	Black		1	
- P - 1	1734346-4	Right Angle	Surface Mount	White		1	
	5787834-1	Vertical	Through Hole	Black	60000281	1	
	5788336-1	Vertical	Through Hole	Black		1	
	1734517-1	Vertical	Surface Mount	Black		1	

MINI USB

	Part Number	Orientation	Board Mount	Gender	Housing Color	USB 2.0 Compliance	No. of Ports	Description
1 TO	1734035-1	Right Angle	Surface Mount	Rcpt.	Black		1	Packaging
	1734035-2	Right Angle	Surface Mount	Rcpt.	Black	60001202	1	Packaging
	1734205-1	Vertical	Solder Tabs	Plug Kit	Black			
	1734753-1	Vertical	Through Hole	Rcpt.	Black		1	

MICRO USB

Part Number	Orientation	Board Mount	Gender	Housing Color	USB 2.0 Compliance	No. of Ports	Description
Series B							
1981568-1	Right Angle	Surface Mount	Rcpt.	Black		1	
1939054-1	Vertical	Solder Tabs	Plug Kit	Black	60001202		
Series AB							
1981584-1	Right Angle	Surface Mount	Rcpt.	Grey		1	
Series A							
1939053-1	Vertical	Solder Tabs	Plug Kit	Natural			

USB Interconnects

QUESTIONS TO ASK AT DESIGN IN

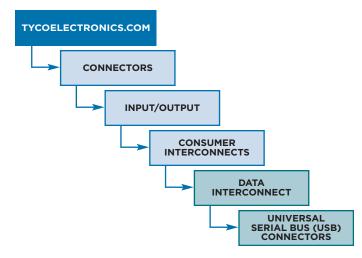
- How do I know if this part is USB 2.0 compliant?
 Visit: http://www.usb.org/developers/compliance
 Select integrators list, select integrators list again
- How do I find the operating temperature range?
 Visit: http://www.tycoelectronics.com/products/USB
 See performance characteristics section
- How do I find the power rating for charging?
 Visit: http://www.tycoelectronics.com/products/USB
 See performance characteristics section

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Breakdown From Main Page



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NOTE: For purposes of this Catalog, included within the definition of RoHS Compliant are products that are clearly "Out of Scope" of the RoHS Directive such as hand tools and other non-electrical accessories.

NOTE: Information regarding RoHS compliance is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information provided by our suppliers. This information is subject to change. For latest compliance status, refer to our website referenced at right.

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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
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