



## Quick Reference Guide USB Interconnects

TE Connectivity (TE) is a standing member of the USB-IF (USB Implementers Forum) and offers a wide range of products to meet your interconnect needs. Our products 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). TE has a wide variety of USB offerings including: standard (A & B), mini B, and micro A/B and B sizes. We also offer locking versions of its standard USB as well as latching versions of its standard and micro USB.

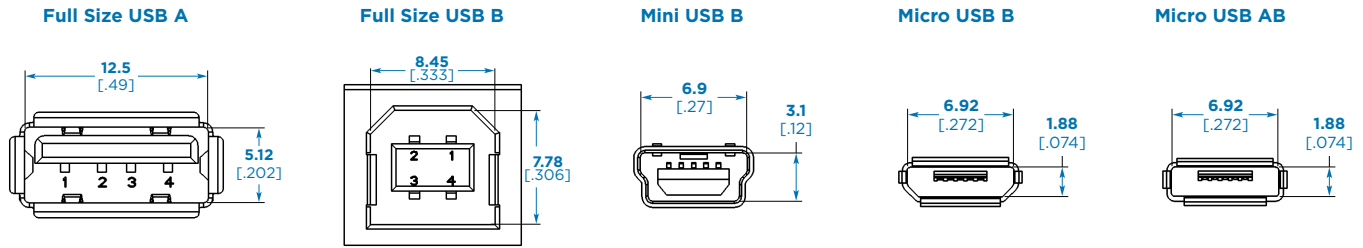
### FEATURES AND BENEFITS

- 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

## Product Sizes



## FULL SIZE USB : Series A Receptacles

Part Number	Orientation	Board Mount	Housing Color	USB 2.0 Compliance	No. of Ports	Description
292303-1	Right Angle	Through Hole	Black		1	Solder tail length 2.84 mm/Kinked legs
292303-2	Right Angle	Through Hole	Black		1	Solder tail length 2.29 mm/Kinked legs
292303-4	Right Angle	Through Hole	Black		1	Solder tail length 2.84 mm/Kinked legs/ High temperature compatible
292303-5	Right Angle	Through Hole	White		1	Solder tail length 2.84 mm/Kinked legs
292303-6	Right Angle	Through Hole	Black		1	Solder tail length 2.29 mm/Kinked legs/ High temperature compatible
1-1734081-3	Right Angle	Through Hole	Black		1	Solder tail length 2.80 mm/Straight legs
1734081-1	Right Angle	Through Hole	Black		1	Solder tail length 2.80 mm/Kinked legs
4-1734081-2	Right Angle	Through Hole	Grey		1	
5353929-1	Right Angle	Surface Mount	White	60000276	1	
292303-7	Right Angle	Surface Mount	White		1	T/H solder legs
292303-9	Right Angle	Surface Mount	White		1	High temperature surface mount hold down tab
1734366-1	Vertical	Through Hole	Black	60000042	1	
292336-1	Flag	Through Hole	Black	60000047	1	
5787617-1	Right Angle	Through Hole	Black	60000044	2	Solder tail length 2.84 mm/Kinked legs
5787617-4	Right Angle	Through Hole	Black		2	Solder tail length 2.84 mm/Kinked legs
5787745-1	Right Angle	Through Hole	Black	60000046	2	Solder tail length 2.84 mm/Kinked legs/ With panel ground
5787745-2	Right Angle	Through Hole	Black		2	Solder tail length 2.29 mm/Kinked legs/ With panel ground
5787745-4	Right Angle	Through Hole	Black		2	Solder tail length 2.84 mm/Kinked legs/ With panel ground
1674451-3	Flag	Through Hole	White	60000713	3	
2-1734309-5	Right Angle	Through Hole	Black		3	Solder tail length 2.84 mm/Straight and kinked legs/With panel ground
6116151	Right Angle	Through Hole	Black		2(USB) 1(RJ45)	-1 No LEDs, -2 With LEDs
1840029	Right Angle	Through Hole	Black		2(USB) 1(RJ45)	-1 Yellow LEDs, -2 Green LEDs Both with integrated magnetics
1840024-1	Right Angle	Through Hole	Black		1(USB) 1(RJ45)	With integrated magnetics
1840035-1	Right Angle	Through Hole	Black		1(USB) 1(RJ45)	Without integrated magnetics

## FULL SIZE USB : Series A Plug Kit

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

**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	Receptacle	Black		1	
2041039-1	Right Angle	Through Hole	Receptacle	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 Kits	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
292304-1	Right Angle	Through Hole	Black	60001134	1	Shell plating : Bright tin over nickel
292304-2	Right Angle	Through Hole	White		1	
292317-4	Right Angle	Through Hole	Black		1	Shell plating : Nickel, matte tin on tails
1734346-1	Right Angle	Surface Mount	Black		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
1734035-1	Right Angle	Surface Mount	Receptacle	Black	62001202	1	Tray
1734035-2	Right Angle	Surface Mount	Receptacle	Black	60001202	1	Tape and Reel
1734753-1	Vertical	Through Hole	Receptacle	Black			
1734205-1	Vertical	Solder Tabs	Plug Kit	Black			

**MICRO USB**

Series	Part Number	Orientation	Board Mount	Gender	Housing Color	USB 2.0 Compliance	No. of Ports	Description
B	1981568-1	Right Angle	Surface Mount	Receptacle	Black		1	
	1939054-1	Vertical	Solder Tabs	Plug Kit	Black	60001202		
	2040099-1	Right Angle	Surface Mount	Receptacle	Grey	60001611-1		Integrated ESD protection
	2129033-1	Vertical	Solder Tabs	Plug Kit	Grey			5+12 Hybrid
	2129237-1	Right Angle	Surface Mount	Receptacle	Grey			5+12 Hybrid
AB	1981584-1	Right Angle	Surface Mount	Receptacle	Grey			
	2040100-1	Right Angle	Surface Mount	Receptacle	Grey	60001612	1	Integrated ESD protection
A	1939053-1	Vertical	Solder Tabs	Plug Kit	Natural			



## Frequently asked questions

### How do I know if this part is USB 2.0 compliant?

VISIT : [www.usb.org/developers/compliance](http://www.usb.org/developers/compliance)

(Select integrators list, select integrators list again)

### How do I find the operating temperature range?

VISIT : [te.com/products/USB](http://te.com/products/USB)

(See performance characteristics section)

### How do I find the power rating for charging?

VISIT : [te.com/products/USB](http://te.com/products/USB)

(See performance characteristics section)

### Looking for an even faster and more efficient interconnect?

#### Something with speeds up to 5Gb/s?

Take a look at TE Connectivity's offering of USB 3.0

VISIT : [te.com/products/USB3](http://te.com/products/USB3)

OR see the USB 3.0 Quick Reference Guide (6-1773457-0)

### What are the advantages of the Micro USB connectors with integrated ESD protection?

- Enhanced reliability due to the fact that the ESD impact is diverted at the connector.
- Reduction of component count leads to board space saving, assembly cost, and also logistic cost of quality etc.
- Integrated ESD protection provides engineer unlimited design freedom to place the connector anywhere on the device.
- Reduced cross talk leads to optimized performance for USB 2.0 connectors (high speed beyond current 480 Mb/s).

## FOR MORE INFORMATION

### TE Technical Support Center

internet	<a href="http://te.com/help">te.com/help</a>
USA:	+1 (800) 522-6752
Canada:	+1 (905) 475-6222
Mexico	+52 (0) 55-1106-0800
Latin/S. America:	+54 (0) 11-4733-2200
Germany:	+49 (0) 6251-133-1999
UK:	+44 (0) 800-267666
France:	+33 (0) 1-3420-8686
Netherlands:	+31 (0) 73-6246-999
China:	+86 (0) 400-820-6015

Part numbers in this brochure are RoHS Compliant\*, unless marked otherwise.

\*as defined [www.te.com/leadfree](http://www.te.com/leadfree)

## te.com

© 2011 Tyco Electronics Corporation, a TE Connectivity Ltd. company. All Rights Reserved.

1-1773453-6 CIS FP 1.5M 07/2011

TE Connectivity, TE connectivity (logo) and TE (logo) are trademarks. Other logos, product and/or company names might be trademarks of their respective owners.

While TE has made every reasonable effort to ensure the accuracy of the information in this brochure, TE does not guarantee that it is error-free, nor does TE make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. TE reserves the right to make any adjustments to the information contained herein at any time without notice. TE expressly disclaims all implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. The dimensions in this catalog are for reference purposes only and are subject to change without notice. Specifications are subject to change without notice. Consult TE for the latest dimensions and design specifications.



# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[TE Connectivity:](#)

[1734205-1](#)