



## 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.

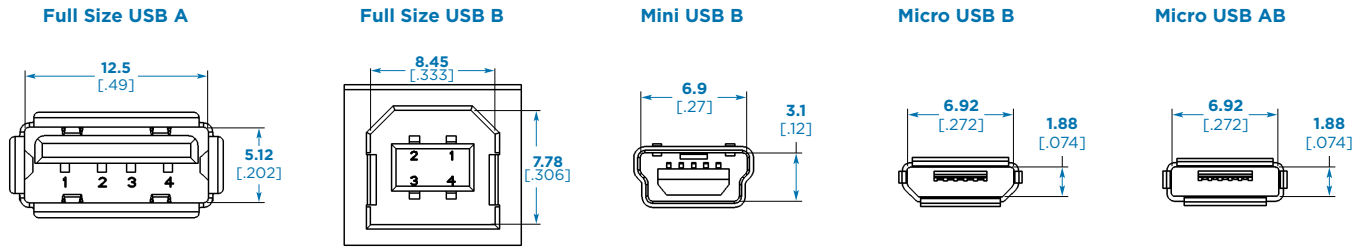
### FEATURES AND BENEFITS

- 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	



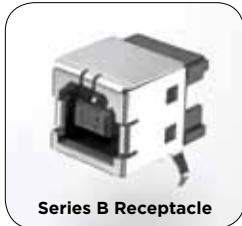
**FULL SIZE USB : Latching**

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)

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