

USB Type-C[®] Connectors

Product selection guide



Globally Connected

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USB Type-C® Power Only Series

Our Type-C connections are the next-generation solution for current and future USB applications. With industry standard design they're small enough for portable devices and small household appliances while also being durable enough for industrial applications. All GCT's Type C products have a reversible interface that can receive a mating half from any direction, making mating simple and reliable.

The GCT 6pin range is ideal for applications requiring power only for battery charging. The parts are ideal replacements for more traditional I/O connectors such as DC sockets and micro USB and deliver all the functional benefits of the USB Type-C format.

You can find out more about each connector by visiting our website at www.gct.co. Here you will have access to a broad range of resources for each product including datasheet, product specifications and 3D models to download.



USB4125



USB4130



USB4135



USB4140



USB4515

| USB Version | Power Only | Power Only | Power Only | Power Only | Power Only |
|----------------------|------------|------------|------------|------------|------------|
| Gender | Receptacle | Receptacle | Receptacle | Receptacle | Receptacle |
| Number of contacts | 6 | 6 | 6 | 6 | 6 |
| PCB Orientation | Horizontal | Vertical | Horizontal | Vertical | Horizontal |
| PCB Mount Position | Top | Top | Top | Top | Mid |
| Shell Stake Type | Thru-hole | Thru-hole | SMT | Thru-hole | Thru-hole |
| Profile Height | 3.16mm | 6.50mm | 3.16mm | 6.50mm | 3.16mm |
| Body Length | 6.80mm | 6.50mm | 6.90mm | 6.50mm | 6.80mm |
| PCB Pin Type | SMT | SMT | SMT | SMT | SMT |
| Mid Mount offset | - | - | - | - | 1.60mm |
| Shell Stake Length 1 | 1.00mm | 1.20mm | - | 0.70mm | 0.75mm |
| Shell Stake Length 2 | 1.90mm | - | - | 1.70mm | - |
| Shell Stake Length 3 | - | - | - | 2.30mm | - |
| Contact Plating | Gold Flash | Gold Flash | Gold Flash | Gold Flash | Gold Flash |
| Current Rating | 3A | 3A | 3A | 3A | 3A |
| Mating Cycles | 20000 | 10000 | 20000 | 10000 | 10000 |

Power and data USB Type-C® 2.0 Series

Our Type-C connections are the next-generation solution for current and future USB applications. With industry standard design they're small enough for portable devices and small household appliances while also being durable enough for industrial applications. All GCT's Type C products have a reversible interface that can receive a mating half from any direction, making mating simple and reliable.

The GCT 16 pin range is ideal for application requiring USB2.0 specification but desiring the USB Type-C format at a cost-effective price. This series truly makes Type C a real option over other popular USB types such as micro and full size A.

You can find out more about each connector by visiting our website at www.gct.co. Here you will have access to a broad range of resources for each product including datasheet, product specifications and 3D models to download.



| | USB4085 | USB4105 | USB4110 | USB4120 | USB4145 | USB4500 | USB4505 | USB4510 | USB4520 |
|-----------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| USB Version | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| Gender | Receptacle | Receptacle | Receptacle | Receptacle | Receptacle | Receptacle | Receptacle | Receptacle | Receptacle |
| Number of contacts | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| PCB Orientation | Horizontal | Horizontal | Horizontal | Vertical | Vertical | Horizontal | Horizontal | Horizontal | Horizontal |
| PCB Mount Position | Top | Top | Top | Top | Top | Mid | Mid | Mid | Mid |
| Shell Stake Type | Thru-hole | Thru-hole | SMT | Thru-hole | Thru-hole | Thru-hole | Thru-hole | Thru-hole | Thru-hole |
| Profile Height | 3.46mm | 3.31mm | 3.26mm | 6.50mm | 7.46mm | 3.16mm | 3.16mm | 3.16mm | 3.16mm |
| Body Length | 9.17mm | 7.53mm | 7.35mm | 6.50mm | 5.90mm | 6.50mm | 6.50mm | 6.50mm | 6.50mm |
| PCB Pin Type | Thru-hole | SMT | SMT | SMT | SMT | SMT | SMT | SMT | SMT |
| Mid Mount offset | - | - | - | - | - | 0.80mm | 1.00mm | 1.60mm | 2.10mm |
| Shell Stake Length 1 | 2.10mm | 0.60mm | - | 0.95mm | 0.70mm | 0.70mm | 0.80mm | 0.70mm | 0.85mm |
| Shell Stake Length 2 | - | 0.95mm | - | - | 1.70mm | - | - | - | - |
| Shell Stake Length 3 | - | 1.20mm | - | - | 2.30mm | - | - | - | - |
| Contact Plating | Gold Flash | Gold Flash | Gold Flash | 3μ" gold | 3μ" gold | 3μ" gold | 3μ" gold | 3μ" gold | 3μ" gold |
| Current Rating | 5A | 5A | 5A | 5A | 5A | 5A | 5A | 5A | 5A |
| Mating Cycles | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 |

Power and data + USB Type-C® 3.2 Gen 2 Series

Our Type-C connections are the next-generation solution for current and future USB applications. With industry standard design they're small enough for portable devices and small household appliances while also being durable enough for industrial applications. All GCT's Type C products have a reversible interface that can receive a mating half from any direction, making mating simple and reliable.

The 24 pin variants support a number of protocols, and it can be used to connect to HDMI, VGA, DisplayPort, and other types of connections from a single USB Type-C port with the use of adapters. Selected GCT products have a single piece drawn shell which reduces unwanted EMI leakage.

You can find out more about each connector by visiting our website at www.gct.co. Here you will have access to a broad range of resources for each product including datasheet, product specifications and 3D models to download.



USB4050 USB4055 USB4056 USB4060 USB4065 USB4070 USB4080 USB4115 USB4151 USB4155 USB4160

| | USB4050 | USB4055 | USB4056 | USB4060 | USB4065 | USB4070 | USB4080 | USB4115 | USB4151 | USB4155 | USB4160 |
|-----------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| USB Version | 3.2 GEN2 | 3.2 GEN2 | 3.2 GEN2 | 3.2 GEN2 | 3.2 GEN2 | 3.2 GEN2 | 3.2 GEN2 | 3.2 GEN2 | 3.2 GEN2 | 3.2 GEN2 | 3.2GEN2 |
| Gender | Receptacle | Receptacle | Receptacle | Receptacle | Receptacle | Receptacle | Receptacle | Receptacle | Plug | Plug | Receptacle |
| Number of contacts | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| PCB Orientation | Horizontal | Horizontal | Horizontal | Horizontal | Horizontal | Vertical | Horizontal | Vertical | Vertical | Horizontal | Vertical |
| PCB Mount Position | Mid | Top | Top | Mid | Top | Top | Top | Top | Top | Edge | Top |
| Shell Stake Type | Thru-hole | Thru-hole | Thru-hole | Thru-hole | Thru-hole | Thru-hole | Thru-hole | Thru-hole | Thru-hole | Thru-hole | Thru-hole |
| Profile Height | 3.42mm | 3.46mm | 3.31mm | 3.42mm | 3.46mm | 10.50mm | 3.16mm | 9.25mm | 11.10mm | 2.90mm | 7.46mm |
| Body Length | 10.0mm | 10.0mm | 9.87mm | 8.65mm | 8.65mm | 10.50mm | 7.90mm | 9.25mm | 11.10mm | 15.50mm | 5.90 |
| PCB Pin Type | Hybrid | Hybrid | Hybrid | Hybrid | Hybrid | SMT | SMT | SMT | SMT | SMT | SMT |
| Mid Mount offset | 1.37mm | - | - | 1.37mm | - | - | - | - | - | - | - |
| Shell Stake Length 1 | 0.60mm | 1.20mm | 1.15mm | 0.60mm | 1.20mm | 1.30mm | 0.50mm | 1.15mm | 1.25mm | 0.90mm | 0.70mm |
| Shell Stake Length 2 | - | - | 1.40mm | - | - | - | - | - | - | - | 1.70mm |
| Shell Stake Length 3 | - | - | - | - | - | - | - | - | - | - | 2.30mm |
| Contact Plating | 30µ" gold | 30µ" gold | 3µ" gold | 30µ" gold | 3µ" gold | 30µ" gold | 3µ" gold | 3µ" gold | Gold Flash | 3µ" gold | 3µ" gold |
| Current Rating | 5A | 5A | 5A | 5A | 5A | 5A | 5A | 5A | 5A | 5A | 5A |
| Mating Cycles | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 |