



Product Catalogue

Issue 27

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Latest Products



USB1086

Ultra-High mating cycle USB 3.0 Type A connector.

USB4151

Vertical-mount USB Type-C plug with compact footprint.



SIM8065

Ultra-compact nanoSIM connector with card detect functionality.

USB1125

designs.



Engineering electronic connectors for tomorrows technology

GCT has been pioneering the very best in electronic interconnects and cable assembly solutions for over 30 years. With an extensive product range, companies the world over trust us to enable connectivity within their designs. Our drive for product innovation has led to unique connectors that help customers with specific requirements, ensuring they stay at the forefront of their industries.

Connector solutions engineered to the highest standard

We understand that connections are critical for all electronics. Our products undergo stringent testing and certifications to ensure they are reliable and of the highest quality, giving you every confidence that your finished product will perform at its very best. GCT products are compliant across a broad selection of standards and are manufactured to industry and regulatory principles.



ECHA REACH compliant

A dedicated team to help you from concept to production

You will always receive a quick, responsive and personal service when working with us, guaranteed. This has always been the reason we continue to build a list of customers who continue to trust our products every time. We firmly believe in our industry-leading service levels to create the best possible experience for those designing in connectors.

Getting GCT connectors into your designs couldn't be easier

To make your design process simpler, we provide a wealth of supporting tools and materials to ensure you choose the best possible solution for your application, quickly and easily. From instant 3D model generators to PCB footprint layouts, to datasheets and express samples, our aim is to provide everything you need to get the job done. And if you need further assistance, the team is always on hand to provide addition information.







USB

A comprehensive selection of USB connectors are available with various combinations of form factors, interface and version types, vertical and horizontal configurations, as well as unique new Type-C charging options and IP-rated waterproof micro USBs.

Chances are GCT have the right USB connector for you.



- 4 form factors Full Size, Mini, Micro, & Type-C
- 4 interfaces types A, B, AB, and Type-C
- **3 USB versions** 2.0, 3.0, 3.1
- **Shell stake** and **locating peg** options
- Horizontal and vertical options
- IP67 water/dust proof and charging-focused options

Applications

Consumer Electronics **Personal Computing Docking & Charging** Instrumentation IT & Networks **Data & Telecoms**

Range Highlights





Rated to 20,000 mating



short body

USB1125



plug with tiny PCB footprint

New - USB4151



CB stability vertical micro USB



Dual stack USB A

USB







New - USB3180

USB1035

Type-C



USB4055



USB4060 USB4065



USB4070

Micro USB





USB3150

Full Size



USB3070







USB



USB1110

USB3090



USB3155

USB1030

USB3160

USB1061

Environmentally sealed Micro USB connectors

- aquanex
- Waterproof to IP67 submersible to 1 metre for 30 minutes
- Silicon Seal moulded to the connectors profile
- Nickel plated, metal injection moulded stainless steel shell
- **■** 10,000 mating cycles



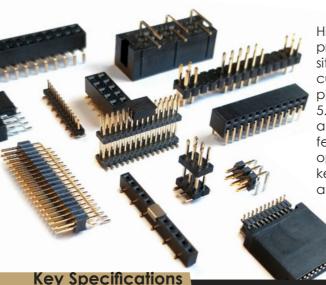
USB C Connectors for charging applications

ibnex

- **USB Type-C** interface rated up to **5A**
- **ப் 16 pin** configuration **economical price** closer to Micro USB
- ტ 10,000 mating cycles perfect for charging & docking applications
- ப் USB 2.0 functionality



Board to Board



High quality and competitively priced PCB connectors for any situation. A large element of customisation is possible with pitches ranging from 0.8mm to 5.08mm, selectable pin lengths, and insulator heights. Other features include locating peg options, shrouding, polarisation, keyed or elevated headers and sockets, with completely bespoke solutions possible (see page 6).

Near **limitless** configuration possibilities

- Pitch options from 0.80mm to 5.08mm (.031" to .200")
- Customisable pin lengths and insulator heights
- Elevated, shrouded, and polarised types
- Insulator material & colour and plating material options
- Perfect for parallel, horizontal or right angle PCB mating

Applications

Automotive
IT, Data & Telecoms
Electronic Systems
Personal Computing
Consumer Electronics
EPOS Systems



SIM Card

SIM card connectors for Nano (4ff), Micro (3ff) and Mini (2ff) SIM cards conform to GSM11.11 standards. As one of the first-to-market with the nano SIM connector, GCT is always at the forefront of innovation in this category.

The latest SIM8065 features a push-push card insert/eject mechanism and card detect switch all within a tiny Nano SIM compatible footprint.



Key Specifications

- 3 form factors Mini, Micro & Nano
- 3 card insertion styles Push-Pull, Push-Push & Hinged
- **Dual stack** SIM6050 model available
- 6 or 8 contact variants depending on application
- Card Detection (CD) switch and locating peg options

Applications

Data & Telecoms Consumer Electronics Asset Tracking **Smart Metering** IoT Applications **EPoS Systems**



Custom Connectors

GCT specialise in custom connectors allowing you to meet specific application design requirements and budgets. Whether it's a modification of an existing part or a brand new design, we will assist you along every step of the way.

Below are some examples of our custom solutions. Be sure to find out more about these projects at www.gct.co/custom-connector



Custom modular jack from concept to production in just 8 weeks

Custom mating PCB and over-molded cable connector solution for door entry system





Custom cable assemblies to meet impending taxi legislation

Need a custom solution for your project? Get in touch now.

act.co/contact-us

Custom Cable Assemblies

GCT has you covered when it comes to custom cable assemblies too, including overmold, IDC (Insulation Displacement Cable), discrete wire/crimp harnesses and cable looms. GCT provides guaranteed quality, great value and superior service.

Overmold

Overmolded cables are often used to solve application issues and GCT has helped many customers overcome design problems by offering innovative solutions. Key advantages of GCT's overmolded product range are the low MOQs and low tooling cost threshold. Target delivery for custom design first off samples is six weeks. Full **UL** certification capabilities are also available.

IDC

GCT produces great
value custom IDC
assemblies, from simple point
to point insulation displacement
connector cables to daisy chain and
breakout cables. GCT offer both industrystandard branded connectors, and highquality, low-cost alternatives.

Crimped

Crimped assemblies are used in both signal and power applications, often as part of a wire to board system design. This type of design allow cables to connect to a printed circuit board by use of a female connector terminated to cable.

Flat Flex Connectors



Key Specifications

- 3 pitch options 0.3, 0.5 & 1.0mm (.012" .019" & .039")
- 3 entry types available with slide or flip locking options
- Zero insertion force locking actuator holds cable in place
- Limitless connector & cable configurations possible
- Cable shielding and folding options available

Applications

Consumer Electronics Wireless Base Stations Photocopiers Scanners Printers



Modular Jacks

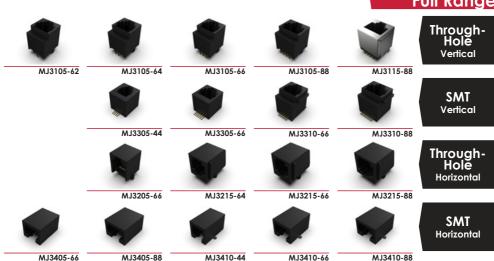


Key Specifications

- Category 3 cable compatible
- Horizontal and vertical orientations
- 4/4, 6/2, 6/4, 6/6, 8/8 contact configurations
- Panel stop and locating peg options available
- SMT versions available in standard and low profile
- Tab up or down orientations

Applications

Electronic Point of Sale Telephony Equipment IT & Networking Data & Telecoms Instrumentation



MicroSD Memory



GCT's range of Micro SD Memory Card connectors encompass push-push and hinged varieties and come in a range of height profiles.





Key Specifications

- Micro SD card compatible
- 2 card insertion styles Push-Push & Hinged
- Profiles from 1.40mm to 1.95mm (.055" to .077")
- Card detection switch options
- Locating peg options

Applications

Consumer Electronics Digital Cameras Phones & Tablets

Full Range





MEM2061





Ultra Slim MEM2075

1.40mm profile - just 0.4mm thicker than the card itself

- Card detection switch normally open
- Push-Push card insertion/ejection
- -25 to +85 C operating temp. range
- Stainless steel shell and latch
- 5000 matina cycles durability
- Locating peg for SMT stability

act.co/connector/mem2075





DC Power Jacks





The GCT range of DC Power Jacks come in a variety of different sizes to meet your requirements. Available popular 0.65, 2,00, 2.35 and 2.50mm pin diameters.

Key Specifications

- Multiple parts to suit different design specifications
- Horizontal and vertical orientations
- **Jack pin diameters** from **0.65** to **2.50mm** (.026" to .098")
- 9 Insulator colour options
- Shielded & unshielded versions
- 4 current ratings, including 7 and 8 amps for high current

Applications

Consumer Electronics Charging Devices IT Peripherals



Resources & Support



From part drawings and 3D CAD files to quick quotations and live chat with our sales & engineering experts, the GCT website hosts a wealth of information and resources.

Head to **gct.co** on PC, tablet or smartphone for a smooth and secure browsing experience.

www.gct.co



Technical Documentation

- Detailed PDF product & packaging drawings
- · Specification & testing documents
- Latest product updates & information



Instant 3D Model & PCB Footprint Layout Files

- 3D model builder. Universal & software-specific file formats available
- PCB footprint layout & schematic symbol files
- Export to Altium, Cadence, OrCAD, Eagle & others



Quick Quoting & Express Sampling

- Online part number builder
- Live chat with our Sales & Engineering experts
- 72 hour sampling on select ranges



Custom Connector & Cable Assembly Capabilities

- Bespoke connector designs from concept to creation
- Custom plating, insulator colours, voided pins, blanked cavities
- Overmolded, IDC, Crimp & custom cable assembly options



Local Support with a Global Footprint

- GCT sales locations in Europe, the Americas, and Asia
- Worldwide distribution partners
- Fully compliant with RoHS, REACH, & the Conflict Minerals program

A Global Footprint

Products can be sourced directly from **GCT** or through our extensive global distribution network.

GCT Locations

- Boston MA, USA +1 978 208 1618 sales@gct-americas.com
- San Jose CA, USA +1 650 448 9660 sales@gct-americas.com
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Global Distribution Partners













Have you seen what we're in?



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