GCT

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Feature Products

USB Connectors
RF Solutions
SIM & MEM Card Connectors
Board to Board Connectors
FFC Solutions
Terminal Blocks
Spring Contacts
Tactile Switches
Custom Solutions

GCT

GCT specializes in the design and supply of connector and cable assembly solutions for a wide range of electronic applications. With decades of experience and a global presence, GCT delivers reliable, high-quality components that meet the demands of modern electronic systems.

GCT supports customers with a strong focus on service, product availability, and technical expertise. Their commitment to quality and flexible production ensures dependable solutions for projects across industries.

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CONTENTS

USB Type-C®
Versatile, Powerful, & Reliable.

GCT's USB-C connectors deliver compact, high-performance connectivity for modern electronic devices. Supporting high-speed data transfer, Power Delivery (PD), and robust mating cycles.

These connectors are designed to meet the increasing demands of portable and power-hungry applications.

Available with IP-rated variants for enhanced environmental protection, they offer flexible solutions for consumer electronics, industrial, and automotive designs requiring reliable and future-proof interconnects.

① **IP-rated options**

IP67 & IP68 environmental sealing against dust and moisture. Ideal for demanding applications.

② **High mating cycle durability**

Engineered for up to 20,000 mating cycles, ensuring long-term reliability in frequent connection applications.

③ **Power Delivery (PD) support**

Enables fast charging and power transfer up to 240W for a wide range of devices and electronic systems.

④ **IEC certified for quality and compliance**

Meets international standards to ensure reliable performance, safety, and interoperability in demanding applications.

IP-Rated for Sealed Performance

USB4745
IP68
24-Pin USB 3.2 Gen 2
Integrated gasket

USB4725
IP67
24-Pin USB 3.2 Gen 2
Separate gasket

USB4720
IP67
16-Pin USB 2.0
Integrated gasket

USB4715
IP67
6-Pin Charge only
Separate gasket

Compliance to Industry Standards

USB4115
TID & IEC Approved
20,000 Mating Cycles
24-Pin USB 3.2 Gen 2

USB4200
TID & IEC Approved
Flag Type
24-Pin USB 3.2 Gen 2

USB4120
TID & IEC Approved
6.50mm profile
16-Pin USB 2.0

USB4800
TID & IEC Approved
Elevated
16-Pin USB 2.0

Durable Solutions for Repeated Use

USB4525
20,000 Mating Cycles
24-Pin 3.2 Gen 2
240W

USB4205
20,000 Mating Cycles
16-Pin Elevated Flag Type
240W

USB4730
20,000 Mating Cycles
16-Pin USB2.0
IP67

USB4175
20,000 Mating Cycles
6-Pin Charge Only
11.0mm profile

Space-Conscious Vertical Orientation

USB4160
24-Pin 3.2 Gen 2
Multiple shell stake lengths
7.46mm profile

USB4145
16-Pin USB2.0
Multiple shell stake lengths
7.46mm profile

USB4140
6-Pin Charge Only
Multiple shell stake lengths
6.50mm profile

USB4180
6-Pin Charge Only Plug
Low mating force
11.60mm profile

Explore More USB Type-C® Solutions

The featured parts are just a selection. **Scan or click the QR Code** to view the full Type-C® range with technical drawings, CAD models, distributor stock, and additional resources to support your next design.

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RF Solutions
Sealed, High-Frequency Performance with Proven Reliability

From outdoor enclosures to compact wireless devices, GCT offers a flagship range of RF coaxial solutions engineered for reliable performance.

Whether you're designing for GSM, GPS, Wi-Fi, IoT, smart city infrastructure, or industrial automation, GCT's Cable Assemblies, Connectors, Antennas, and Accessories are built to deliver - even in the most demanding conditions.

① **Standard and IP Rated Options**

Flexible solutions with both standard and sealed IP-rated designs for use in various environmental conditions.

② **Accelerated Life Testing (ALT)**

Proven long-term performance through rigorous accelerated life testing, ensuring consistent signal integrity.

③ **High-Frequency Signal Integrity**

Optimized for minimal signal loss and reliable performance in high-frequency communication systems.

④ **Compact, Space-Saving Designs**

Small form factors ideal for space-constrained PCBs in wireless and RF-enabled devices.

Selection From Our Range

Reliable RF Connections for Everyday Designs

CAB468RF
IPEX MHF I Plug to RP SMA Straight
1.13mm ø Coaxial Cable
DC to 6GHz

CAB661RF
SMA Straight Plug Free Hang
-40 to +125°C
DC to 12.4GHz

RFPC-SMA27-F
SMA Right Angle Jack
-55 to +125°C
DC to 6GHz

RFPC-SMA28-F
SMA Straight Jack
-55 to +125°C
DC to 6GHz

IP-Rated RF Connectors for Reliable PCB Integration

RFPC-SMA22-FN
IP68/69K Right Angle
DC to 6Ghz
Stainless Steel/Brass

RFPC-SMA23-FN
IP68/69K Edge Mount
DC to 6GHz
Brass, Gold Plated

RFPC-TNC01-FN
IP67/68 Right Angle
DC to 4GHz
Brass, Nickel Plated

RFPC-SMA39-FN
IP67 Edge Mount
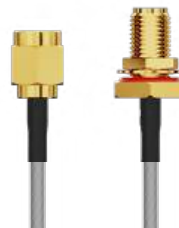DC to 18Ghz
Brass, Gold Plated

Waterproof Cable Assemblies for Reliable Field Deployment

CAB606RF
SMA Extender cables
IP67/68/69K, IP Rated Front and Rear
LMR-100® Equivalent cable

CAB442RF
IPEX MHF I → Isolated SMA Jack
IP67
DC to 6Ghz

CAB243RF
SMA Straight Plug → Straight Jack
IP67/68
6 cable size options

CAB459RF
IPEX MHF 1 LK → SMA Straight Jack
IP67/68
DC to 6Ghz

Support Long-Term Durability with Sealed Accessories

RFAD-SA3SA2-01-N
IP67
SMA Bulkhead Jack to SMA Jack Adapter
Brass, Gold Plated

RFA-100-005
IPX5
SMA Antenna Stick quad Band
Swivelling elbow 180°,90°,45°

RFCT-SMA-CAP-GS-5
IP67
SMA Stainless Steel Protective Cap
Silicone Gasket sealed

RFCT-TNC-CAP-GS-2
IP67
SMA Stainless Steel Protective Cap
Silicone Gasket sealed

Explore More RF Solutions

The featured parts are just a selection. **Scan or click the QR Code** to view the full RF range with technical drawings, CAD models, distributor stock, and additional resources to support your next design.

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No Tape
No Compromise

Sealed SMA Extender Cables a Fit-and-Forget solution. Anywhere.

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Built to Withstand 10,000 Connections

Engineered Connector Pair for High-Cycle ePOS Docking Systems

When performance meets repetition, durability is everything. GCT developed a high-mating-cycle connector set for an ePOS docking and charging system — designed to deliver over 10,000 cycles with reliable USB2.0 data and power transfer.

A spring-contact design with a self-wiping nipple feature ensures consistent connectivity. Tight tolerances are maintained with beryllium copper, and a dedicated pick-up area supports precise placement during assembly.

Reliable docking, day after day.

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Tactile Switches
Precision Control and Reliable Performance

GCT's tactile switches offer precise control and high reliability across a wide range of compact electronic applications.

Designed for use in consumer electronics, industrial controls, and instrumentation, they deliver consistent mechanical performance with tactile, responsive feedback. The range includes IP67-rated options available for use in harsh environments.

Featuring a variety of actuation forces, profiles, and termination styles, GCT tactile switches meet the demands of both everyday and high-specification applications.

① **Tactile and Responsive Feedback**

Provides precise actuation with consistent tactile response for user interface applications.
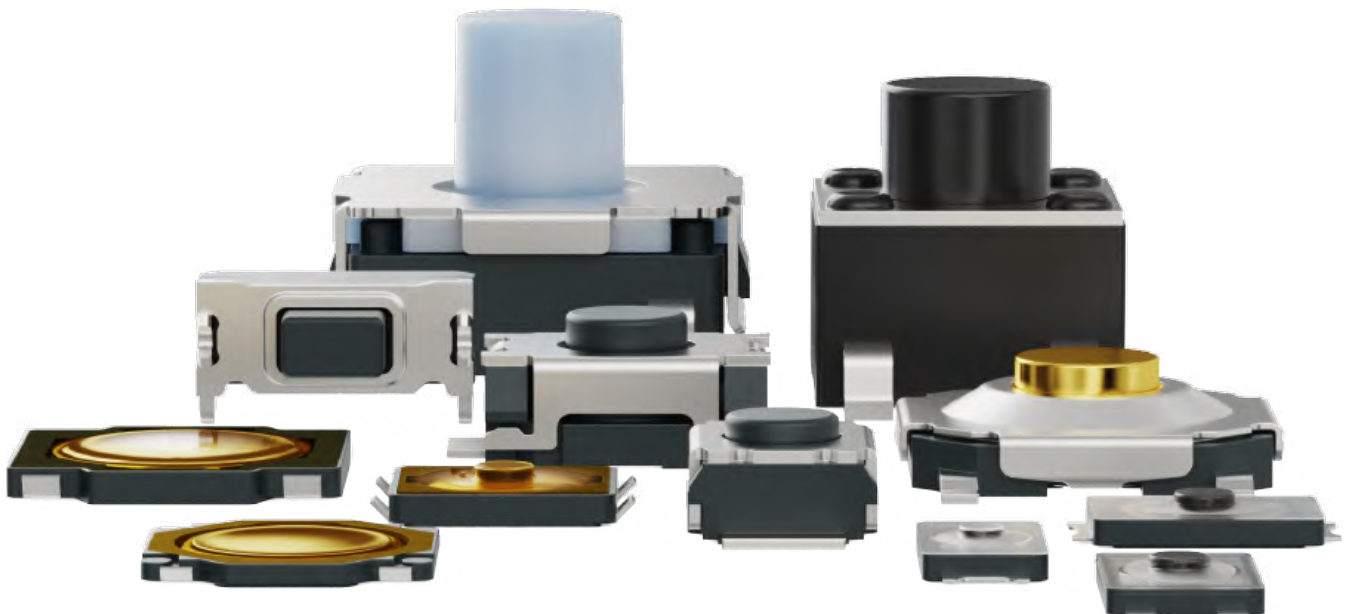
② **Versatile Product Range**

IP67 and non-IP rated options for environmental flexibility, with termination options including SMT, J-Lead, and Gull Wing.

③ **Space-Saving Designs for Compact Applications**

Footprints as small as 2.6 x 1.6mm, with low-profile options from 0.35mm to suit space-constrained designs.

④ **Durable, Long-Lasting Operation**

Engineered for up to 500,000 cycles.

Selection From Our Range

Sealed for Dust and Water Resistance

SWT7015
IP67
100,000 Life Cycles
100gf Actuation Force

SWT7016
IP67
300,000 Life Cycles
160gf Actuation Force

SWT7017
IP67
300,000 Life Cycles
3000gf Actuation Force

SWT7405
IP67
100,000 Life Cycles
400gf Actuation Force

Long-Life Switching with Consistent Tactile Response

SWT7005
500,000 Life Cycles
160/240gf Actuation Force
IP67

SWT7010
500,000 Life Cycles
160gf Actuation Force
IP67

SWT0210
260gf Actuation Force
100,000 Life Cycles
4.5 x 4.5mm Footprint

SWT0316
350gf Actuation Force
100,000 Life Cycles
6.0 x 6.0mm Footprint

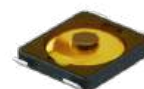## Slim Form Factor for Minimal Clearance Designs

SWT0105
0.35mm Profile
3.7 x 3.7mm Footprint
160gf Actuation Force

SWT0205
0.55mm Profile
4.5 x 4.5mm Footprint
100/160/250gf Actuation Force

SWT0215
0.55mm Profile
4.8 x 4.8mm Footprint
160gf Actuation Force

SWT5005
0.65mm Profile
3.0 x 2.6mm Footprint
100/160gf Actuation Force

High-Actuation Surface for Enhanced Usability

SWT0211
5.5mm Profile
100gf Actuation Force
4.5 x 4.5mm Footprint

SWT0320
8.5mm Profile
160gf Actuation Force
6.0 x 6.0mm Footprint

SWT0305
9.5mm Profile
250gf Actuation Force
6.0 x 6.0mm Footprint

SWT0320
13mm Profile
160gf Actuation Force
6.0 x 6.0mm Footprint

Explore More Tactile Switch Solutions

The featured parts are just a selection. **Scan or click the QR Code** to view the full Tactile Switch range with technical drawings, CAD models, distributor stock, and additional resources to support your next design.

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Streamlined for High-Volume Charging

Tailored USB-C Plug for Low-Cost, Low-Pin Applications

For a high-volume device needing only charging functionality, GCT engineered a USB Type-C plug with just the essentials — and nothing more. The result? A 6-pin, low-profile connector with minimized footprint and no retention spring, cutting both cost and complexity.

Designed with automated production in mind, this solution met strict cost targets while maintaining reliable performance.
Now part of the GCT range as USB4180 — proof that great ideas scale.

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Spring Contacts
Small & Grounded

GCT's spring contacts provide compact, versatile solutions for reliable PCB connections across charging, grounding, and antenna applications.

Designed for surface mount, they're available in a range of contact heights and force ratings to suit diverse design needs.

Ideal for space-constrained devices such as wearables, mobile electronics, and medical equipment, these contacts ensure dependable performance with durable construction and easy assembly.

① **Compact and Versatile PCB Contacts**

Small form factor suited for compact electronics, including wearables and mobile devices.
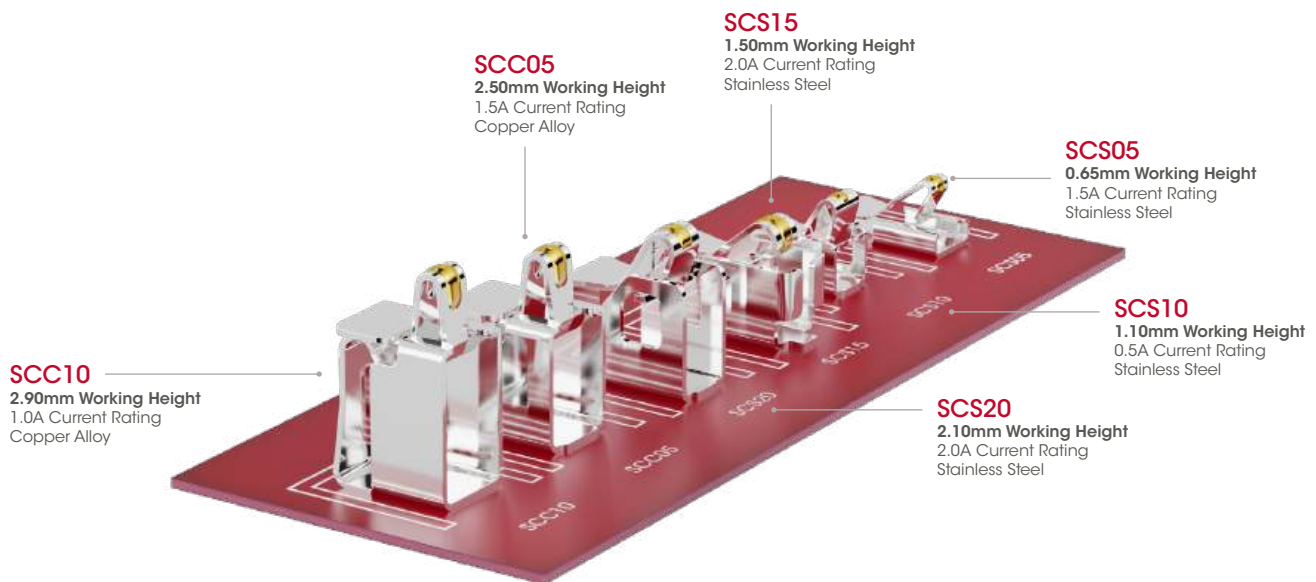
② **Ideal for Charging and Grounding**

Provides reliable connection for power transfer, grounding, and antenna applications.

③ **Wide Range of Contact Heights**

Offers design flexibility to meet specific mechanical and electrical application needs with heights of 0.65mm to 2.90mm.

④ **High Reliability - Vibration Tested**

Contacts have been shock tested (to 490m/s^2 or 49G) & vibration tested from 20 to 2000Hz.

SCS15
1.50mm Working Height
2.0A Current Rating
Stainless Steel

SCC05
2.50mm Working Height
1.5A Current Rating
Copper Alloy

SCS05
0.65mm Working Height
1.5A Current Rating
Stainless Steel

SCS10
1.10mm Working Height
0.5A Current Rating
Stainless Steel

SCC10
2.90mm Working Height
1.0A Current Rating
Copper Alloy

SCS20
2.10mm Working Height
2.0A Current Rating
Stainless Steel

Explore More Spring Contact Solutions

The featured parts are just a selection. **Scan or click the QR Code** to view the full Spring Contact range with technical drawings, CAD models, distributor stock, and additional resources to support your next design.
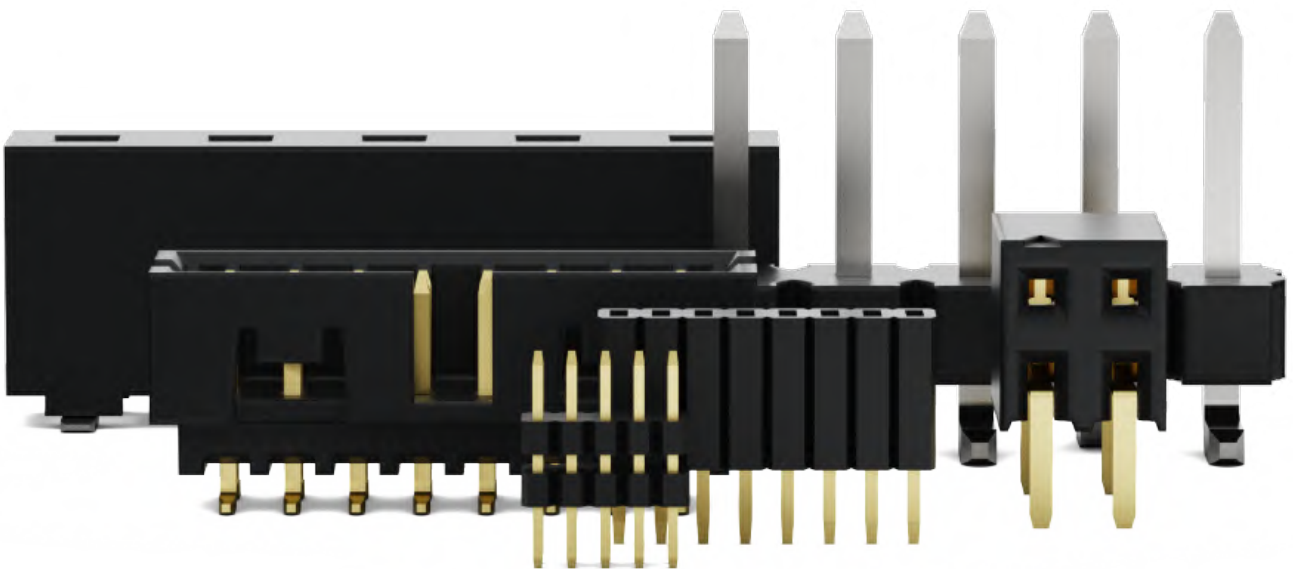
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Board-to-Board Connectors
Compact Connections for Reliable PCB Stacking

GCT's board-to-board connectors offer dependable and space-efficient interconnect solutions for connecting PCBs in compact electronic assemblies. Available in a wide range of pitch sizes, stack heights, and orientations, they are ideal for high-density designs where mechanical stability and signal integrity are critical. With options for SMT, and through-hole mounting, GCT provides flexible configurations to suit diverse layout requirements across consumer, industrial, and medical devices.

① **Precision-Mated PCB Connections**

Engineered for reliable board stacking with tight tolerance alignment and mechanical strength.

② **Flexible Heights and Orientations**

Offered in multiple stack heights, pitches, and mating directions to suit diverse design layouts.

③ **High Signal Density in Small Footprints**

Supports compact, multi-board systems without compromising signal performance or PCB real estate.

④ **Robust Contact Performance**

Durable contacts with secure mating and long operational life for consistent electrical reliability.

Core Header Components for PCB Stacking

BC050
1.00mm pitch
04 - 80 contacts
Customer specifiable profile

BD120
1.27mm pitch
08 - 50 contacts
5.70mm profile

BF020
2.00mm pitch
02 - 40 contacts
1.50mm, 2.00mm profile

BG066
2.54mm pitch
06 - 60 contacts
6.10mm profile

PCB Sockets for Secure Mechanical Connection

BC085
1.00mm pitch
04 - 80 contacts
2.25mm profile

BD080
1.27mm pitch
03 - 40 contacts
4.30mm profile

BF088
2.00mm pitch
02 - 40 contacts
2.00mm profile

BG140
2.54mm pitch
04 - 80 contacts
5.95mm profile

Stacked Height Solutions for Multi-Level Designs

BD040
1.27mm pitch
06 - 66 contacts
Customer specifiable profile

BF146
2.00mm pitch
04 - 80 contacts
Customer specifiable profile

BG160
2.54mm pitch
04 - 80 contacts
Customer specifiable profile

BG090
2.54mm pitch
02 - 40 contacts
Customer specifiable profile

Engineered for Unique Board-to-Board Needs

Fine pitch board to board connector for telematic project

Connector for thermoelectric device

Round pin SMT header with custom insulator and coining

Left and right-hand header with integrated PCB location

Explore More Board to Board Solutions

The featured parts are just a selection. **Scan or click the QR Code** to view the full Board to Board range with technical drawings, CAD models, distributor stock, and additional resources to support your next design.

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Custom Solutions
Tailored Interconnect Solutions for Unique Applications

GCT offers tailored interconnect solutions to meet unique application requirements. With a focus on collaborative design, flexible production, and reliable supply chain management, GCT supports custom connector and cable assemblies across industries including medical, industrial, and consumer electronics, ensuring performance, quality, and project success.

1 **Tailored Connector and Cable Assemblies**

Designed to meet unique application demands with custom configurations and specifications.

2 **Flexible Manufacturing and Global Support**

Scalable production with global logistics to support projects of any size and complexity.

3 **Expert Engineering Collaboration**

Partner with GCT's design team to develop optimized interconnect solutions from concept to production.

4 **Comprehensive Quality and Compliance Testing**

Ensures products meet stringent performance, reliability, and industry compliance standards.

From Challenge to Connection — Discover What's Possible

Looking for something beyond standard? **Scan or click the QR Code** to explore how GCT team can support your design with tailored connector and cable assembly solutions. Fast, flexible, and built around your needs.

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Precision in Every Detail

Engineered Cable Assembly for Architectural Door Entry Systems

In applications where form is as critical as function, GCT delivered a flat, 35mm disc-style overmolded cable assembly — ideal for sleek wall-mounted door entry systems.

With strict requirements on thickness and cable exit geometry, the solution required precise control over tooling and molding processes to maintain flatness across the disc while minimizing cable protrusion.

A refined design — from mold to mount.

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FFC Cables & Connectors
Lightweight, Flexible, and Easy to Integrate

GCT's FFC cables and connectors provide lightweight, flexible interconnect solutions ideal for compact electronic assemblies.

Offering a space-saving design with easy installation, they support high-density PCB layouts in consumer electronics, medical devices, and automotive systems. Their flexibility and durability make them an efficient choice for applications requiring repeated motion or limited space.

① **Lightweight, Flexible Interconnects**

Ideal for dynamic applications requiring flexibility without compromising signal reliability.
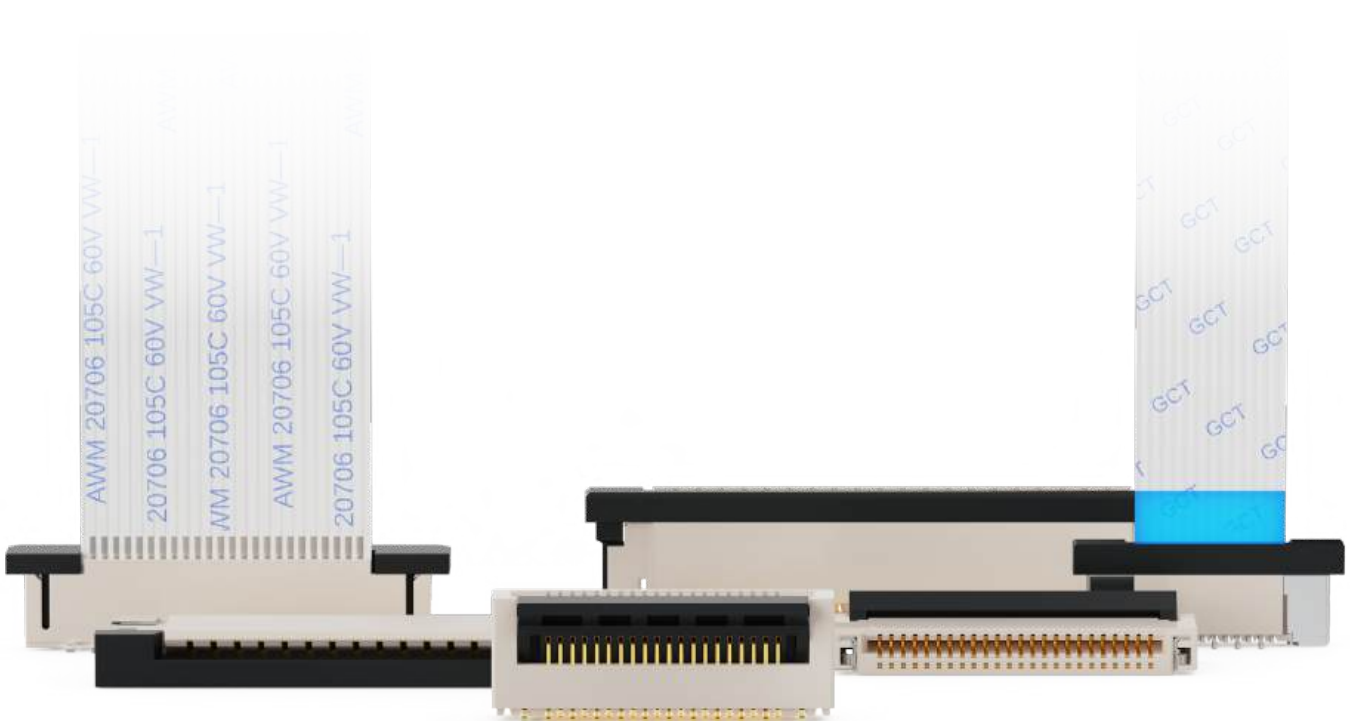
② **Space-Saving Designs**

Slim cables and low-profile connectors maximize space in compact electronic assemblies.

③ **Easy Assembly with ZIF Connectors**

Simplifies installation with Zero Insertion Force connectors for quick and secure connections.

④ **Durable in Repetitive Motion Applications**

Maintains reliable performance in devices subjected to frequent bending or movement.

Flip Lock FFC Connectors for Quick Secure Termination

FFC2B28
Back Flip Lock
04 - 40 contacts
0.5mm pitch - 1.00mm profile

FFC2B35
Front Flip Lock
04 - 60 contacts
0.5mm pitch - 2.00mm profile

FFC2C05
Back Flip Lock
04 - 68 contacts
0.5mm pitch - 2.24mm profile

FFC2B29
Back Flip Lock
04 - 60 contacts
0.5mm pitch - 2.60mm profile

Slide Lock FFC Solutions with Lateral Actuation

FFC2A32
Top Entry Slide Lock
04 - 60 contacts
0.5mm pitch - 4.25mm profile

FFC2B16
Side Entry Slide Lock
04 - 40 contacts
0.5mm pitch - 2.00mm profile

FFC3A20
Top Entry Slide Lock
04 - 30 contacts
1.0mm pitch - 5.50mm profile

FFC3B07
Side Entry Slide Lock
04 - 40 contacts
1.0mm pitch - 2.50mm profile

Cable Options

A full range of FFC cable options to suit your design needs, including tin-plated, gold-plated, and shielded & grounded variants. Available in 0.50mm and 1.00mm pitches with UL20624 (-40 to +80 °C) and UL20706 (-40 to +105 °C) options. All configurations are ready to support a wide range of applications whether you're focused on cost, reliability, or signal protection.

Cable Type A — Conducter Same Side
Also known as Type 1, Type BD, or same side FFC

Cable Type D — Conducter Opposite Side
Also known as Type 2, Type AD, or opposite side FFC

Tin

Gold

Shielded & Grounded
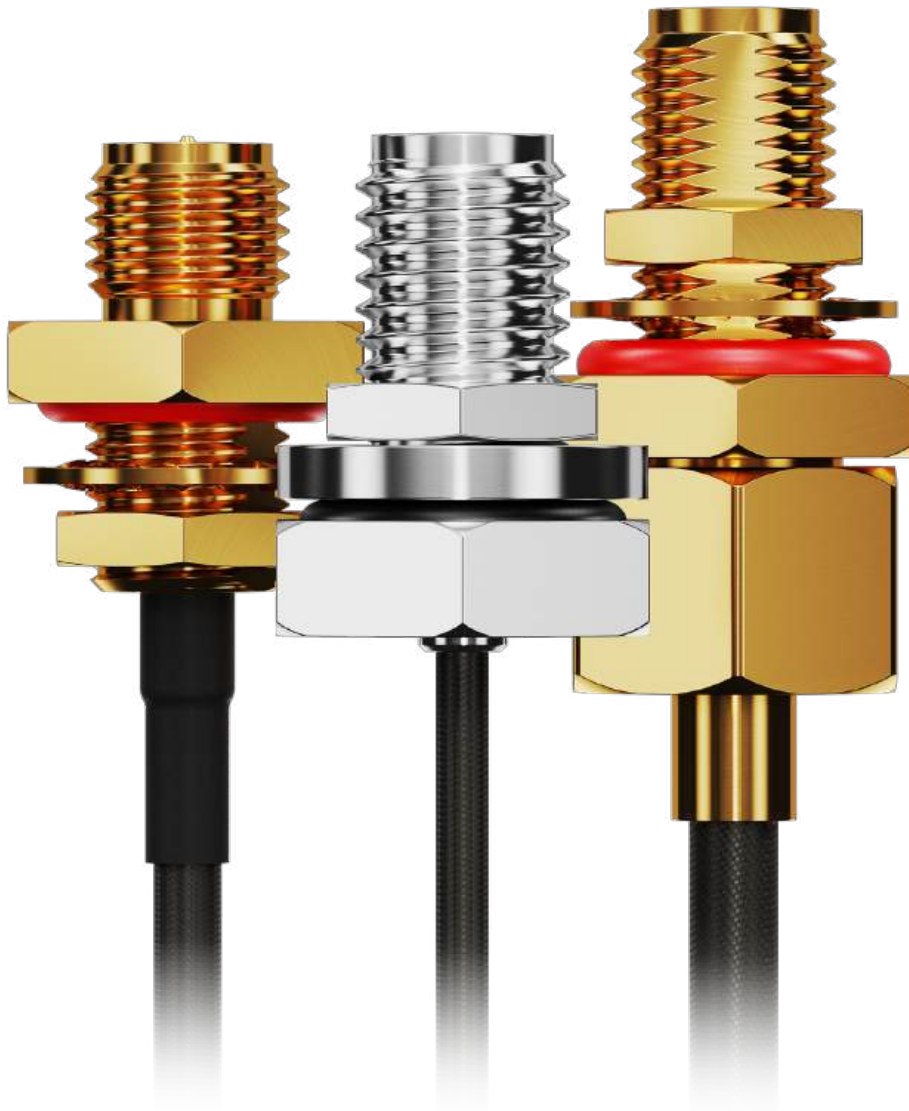
Explore More FFC Solutions

The featured parts are just a selection. **Scan or click the QR Code** to view the full FFC range with technical drawings, CAD models, distributor stock, and additional resources to support your next design.
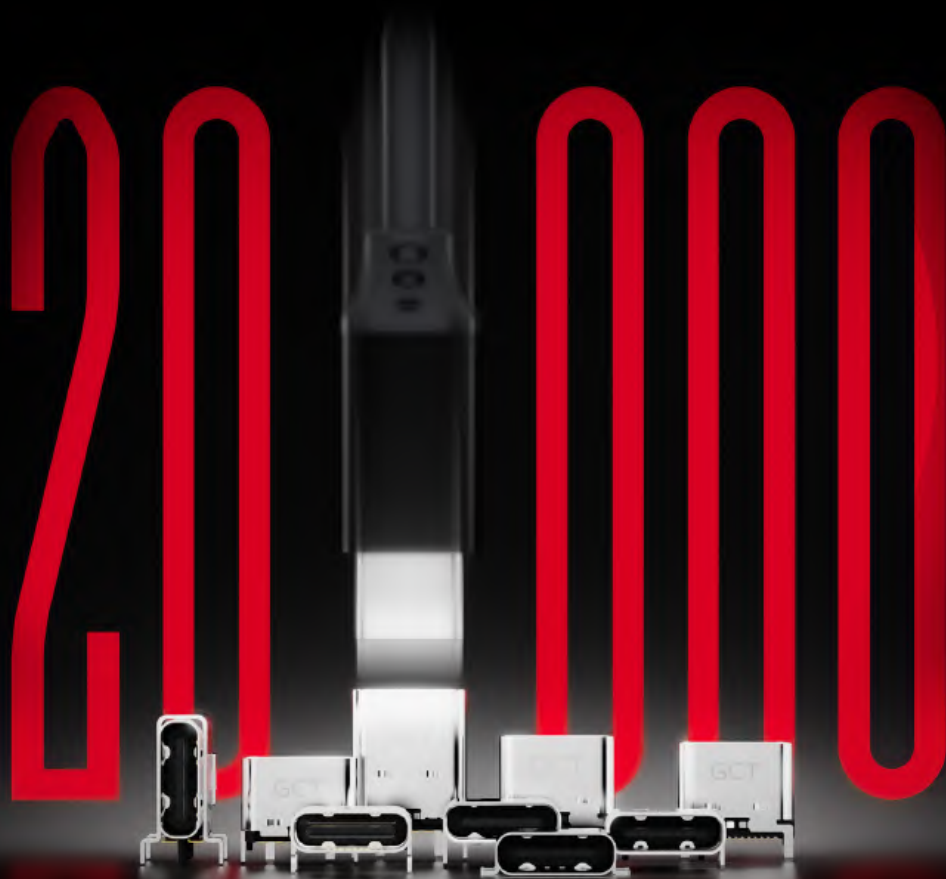
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Cable Assembly Selector

Choose from a wide range of standard assemblies or create a bespoke solution using our intuitive cable selector — designed to simplify and streamline your design process.

SCAN OR CLICK QR CODE

Connect.
Disconnect.Repeat.

Rated at 20,000 mating cycles USB Type-C® Range

SCAN OR CLICK QR CODE

SIM & Memory Card Connectors
Low-Profile, High-Reliability Data Solutions

GCT's SIM and memory card connectors offer low-profile, high-reliability solutions for secure data and identity storage.

Available in Push-Pull, Push-Push, and Hinged—they ensure dependable connection in mobile devices, tracking systems, IoT products, and industrial electronics where compact design and long-life operation are key.

① **Low Profile, Compact Designs**

Space-efficient connectors for slim devices and high-density PCB layouts.

② **Multiple Ejector Mechanisms**

Available in Push-Push, Push-Pull, and Hinged types for versatile card access and retention solutions.

③ **Reliable Data and Power Contacts**

Gold-plated contacts ensure stable electrical performance and long-term data retention.

④ **Designed for Industrial and IoT Applications**

Suitable for use in tracking systems, consumer electronics, and M2M communication devices.

Micro SD Sockets with Minimal Stacking Height

MEM2085
1.15mm Profile
Push-Pull
5000 Mating Cycles

MEM2080
1.28mm Profile
Push-Push
5000 Mating Cycles

MEM2075
1.40mm Profile
Push-Push
5000 Mating Cycles

MEM2061
1.88mm Profile
Push-Push
5000 Mating Cycles

Built for Frequent Access and Mechanical Stability

MEM2090
10,000 Mating Cycles
1.45mm profile
Push-Push

MEM2052
10,000 Mating Cycles
1.95mm profile
Push-Push

MEM2067
Hinged
1.80mm profile
5000 Mating Cycles

Flexible Insertion Types for SIM Integration

SIM8066
Push-Push
Nano
6 contacts

SIM7050
Push-Pull
Micro
6-8 contacts

SIM7200
Hinged
Micro
Vibration tested

SIM6050
Dual Push-Pull
Mini
8x2 contacts

Space-Saving Connectors with Minimal Height

SIM8070
1.10mm Profile
Push-Pull
Without switch

SIM8055
1.35mm Profile
Push-Pull
With switch

SIM8051
1.35mm Profile
Push-Pull
Without switch

SIM7155
1.43mm Profile
Push-Push
With switch

Explore More SIM Solutions

The featured parts are just a selection. **Scan or click the QR Code** to view the full SIM range with technical drawings, CAD models, distributor stock, and additional resources to support your next design.

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ISOLATED.

Containing electromagnetic emissions within a shielded enclosure, preventing them from radiating outward and interfering

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Terminal Blocks
Secure, Efficient Wire-to-Board Connections

Engineered for reliable wire-to-board connections, GCT terminal blocks feature secure clamping mechanisms, supporting both screw and spring types. They ensure consistent electrical performance in industrial controls, power supplies, and building automation. Simple installation and robust construction deliver long-term dependability in harsh environments, reducing maintenance and downtime.

① **Secure Wire-to-Board Connectivity**

Provides reliable, vibration-resistant connections for industrial and building automation applications.
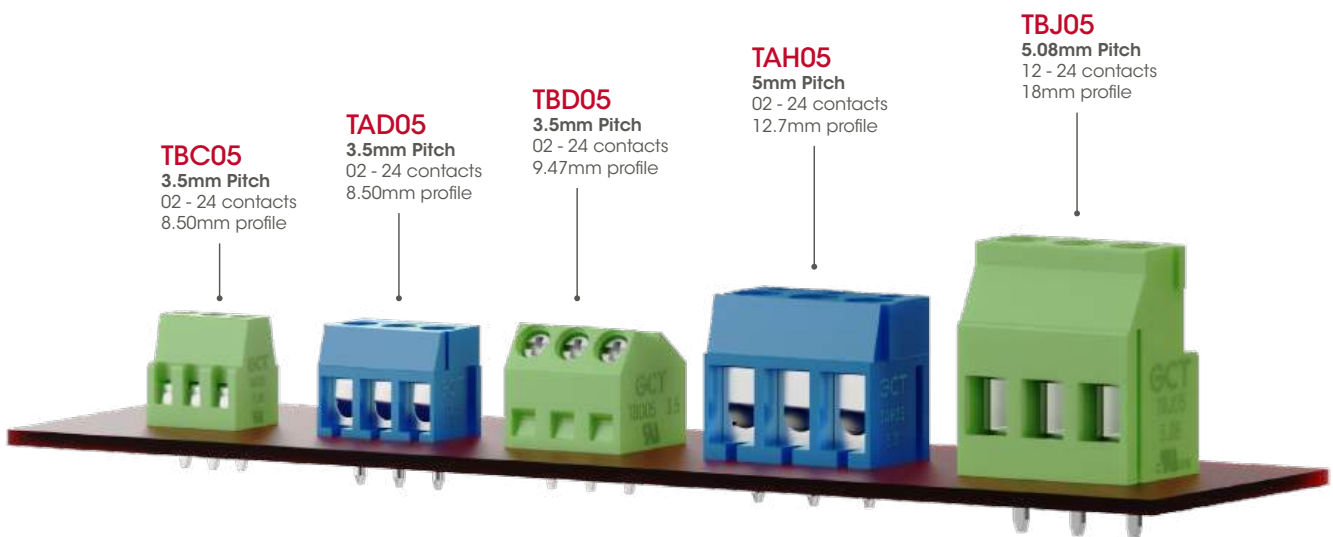
② **Screw and Spring Clamp Options**

Versatile termination methods suited for different installation preferences and requirements.

③ **Compact Footprint for High-Density PCBs**

Efficient designs save space while maintaining strong mechanical and electrical integrity.

④ **Robust Performance in Harsh Environments**

Engineered for consistent operation in industrial and outdoor settings.

TBJ05
5.08mm Pitch
12 - 24 contacts
18mm profile

TAH05
5mm Pitch
02 - 24 contacts
12.7mm profile

TBD05
3.5mm Pitch
02 - 24 contacts
9.47mm profile

TAD05
3.5mm Pitch
02 - 24 contacts
8.50mm profile

TBC05
3.5mm Pitch
02 - 24 contacts
8.50mm profile

Explore More Terminal Block Solutions

The featured parts are just a selection. **Scan or click the QR Code** to view the full Terminal Block range with technical drawings, CAD models, distributor stock, and additional resources to support your next design.
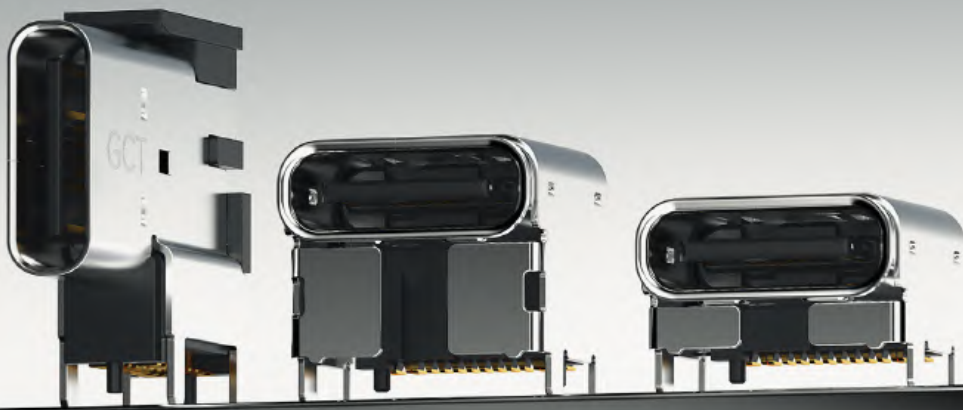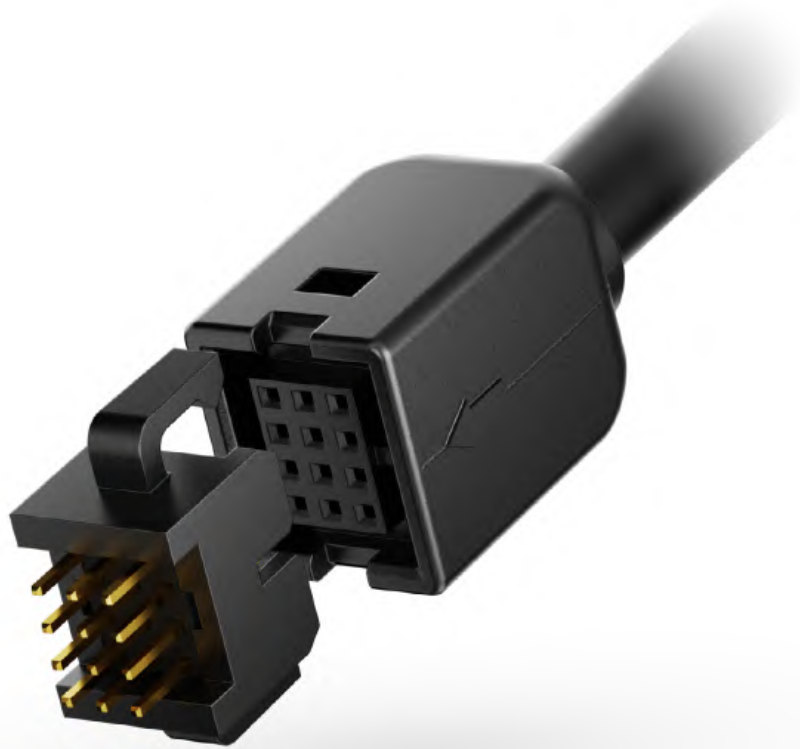
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For The Design-Conscious

Reaching New Heights

Elevated USB-C Connectors for Perfect Port Alignment
Available in multiple elevated profiles — 5.38mm (USB4800), 7.78mm (USB4805), and
12.5mm (Flag Type USB4205) for streamlined layouts.

Simplify your I/O design without compromise.

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Engineered for Tightest Spaces

Custom Cable & Connector Pairing for Smart Door Entry Systems

To meet strict installation constraints, GCT designed a super-flexible, 11-conductor shielded cable and a compact PCB header optimized for flow soldering and potting. The assembly features tool-free latching, built-in low-pressure ingress protection, and materials selected for heat resistance and mechanical flexibility — without relying on O-rings or grommets.

A tailored solution from concept to connection — built to spec, built to perform.

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Why GCT?

With over 40 years of experience, GCT is a leading provider of high-quality connector and cable assembly solutions. Our commitment to innovation, reliability, and customer support makes us a trusted partner for engineers worldwide. Whether you need a standard off-the-shelf product or a fully customized solution, we provide expert technical guidance and flexible manufacturing to ensure your design requirements are met.

Comprehensive Product Portfolio

A wide selection of connectors designed for power, signal, and data applications.

Engineering Expertise

Our specialists assist from concept to production, helping optimize performance and efficiency.

Customer-First Approach

Fast response times, proactive support, and tailored solutions to fit unique application needs.

Quality & Compliance

Stringent testing and adherence to global standards ensure reliability across industries.

Global Presence & Distribution Coverage

GCT's worldwide footprint ensures fast service, efficient logistics, and localized support to meet the demands of a global market.

Regional Offices & Engineering Support — Our teams in North America, Europe, and Asia provide responsive assistance throughout your design cycle.

Global Distribution Network — Our network includes leading Global Broadline and High Service partners, as well as select Regional distributors, ensuring product availability and rapid delivery worldwide.

Dedicated US Sales Representation — A strong network of GCT representatives offer local expertise and personalized support across the United States.

Seamless Supply Chain Solutions — Flexible production and inventory strategies help reduce lead times and support high-volume production.

Key Industries Served

GCT products are designed to perform in a wide range of industries, powering critical applications where reliability, efficiency, and durability are essential.

Consumer Electronics & Wearables
Compact, lightweight, and high-density connectors tailored for modern devices, including smartwatches, wireless earbuds, and handheld electronics.

Military & Defense
Robust interconnects built to withstand extreme conditions, ensuring mission-critical performance in defense, aerospace, and tactical applications.

Agricultural Technology (AgTech)
Reliable, high-performance connections for precision farming, smart irrigation, and automated equipment in agricultural applications.
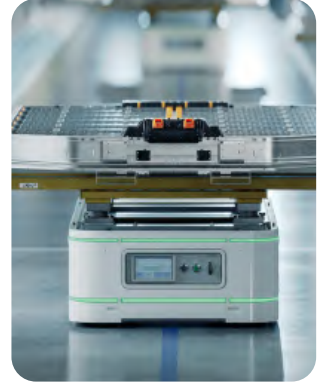
Industrial Automation
Durable connectors that power robotics, sensors, and control systems for factory automation and smart manufacturing.

Medical Devices
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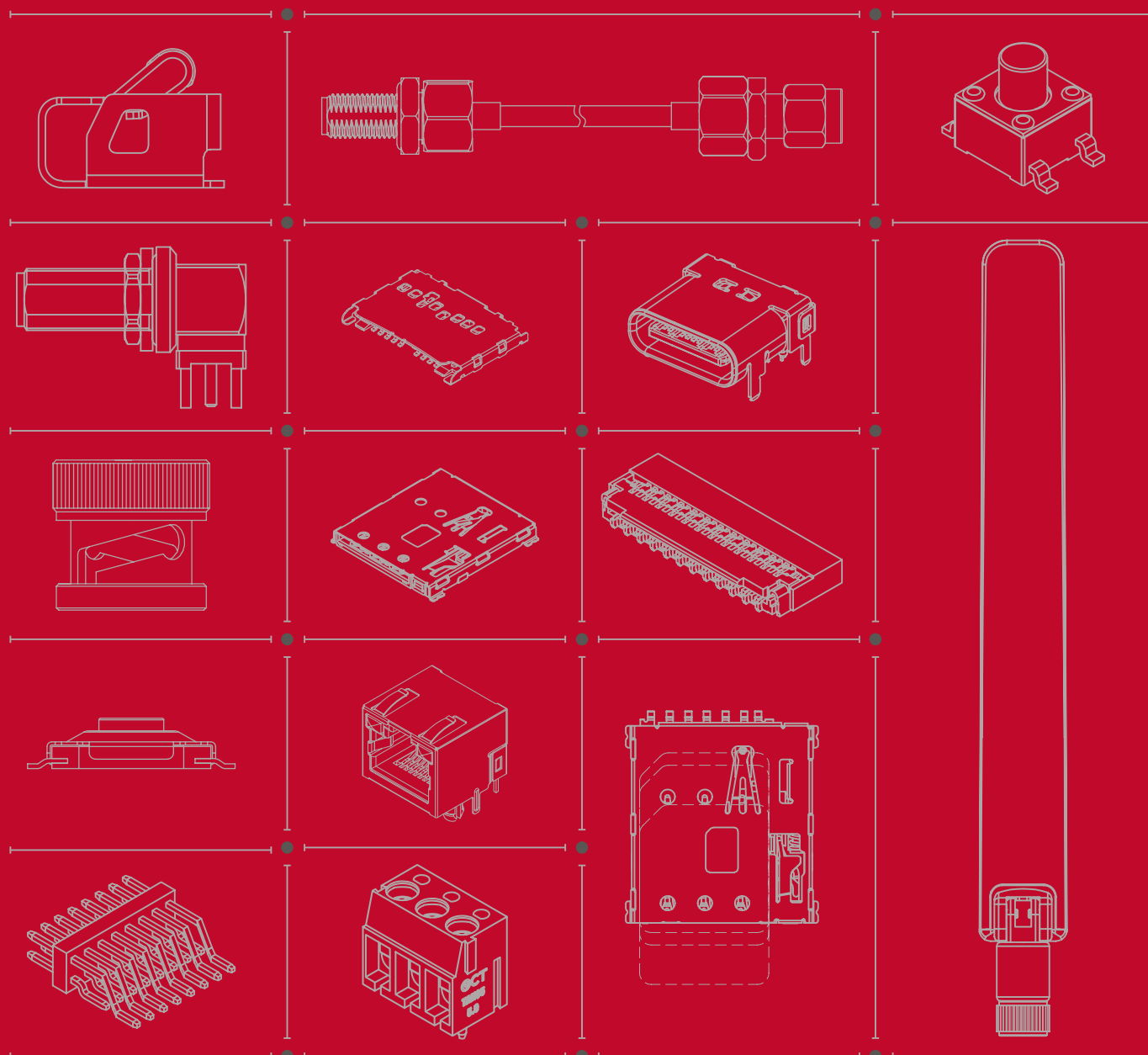
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