USB Type C Connector System

SCALABLE, SUPERSPEED CONNECTOR SYSTEM

USB Type C connectors are expected to be widely used as a next-generation interface. They support a variety of protocols such as USB2.0/3.0/3.1 and meet Superspeed communication 10Gbps, 5A and 20V power supply.

The usability for USB 3.1 Type C connector is enhanced also by its low profile and reversible product design. It is ideal for emerging product designs.

- Reversible plug and cable orientation
- Meets USB 3.1/3.0/2.0 speed performance
- Supports high speed transmission up to 10Gbps
- Extended 5A current rating for USB Power delivery
- Vertical, right angle and straddle mount configurations and waterproof type available

TARGET MARKETS

- Reversible plug and cable orientation
- Meets USB 3.1 specification
- Extended 5A current rating for USB Power delivery
- Supports audio and video signal output with alternate mode
- Up to 10,000 mating cycles

FEATURES

- Tailored for emerging product designs
- Similar size as Micro USB
- Supports high speed transmission up to 10Gbps
- Extended 5A current rating for USB Power delivery
- Designed to establish future USB performance needs
- Up to 10,000 mating cycles

BENEFITS

- Reversible plug and cable orientation for better user experience
- Smaller connector size saves space
- Meets USB 3.1 specification
- Backward compatible with USB 2.0/3.0 to meet different application requirements
- Meets USB power delivery protocol
- Supports audio and video signal output with alternate mode
- Enhanced durability
**USB Type C Connector System**

**TECHNICAL INFORMATION**

**MATERIAL**
- Housing: High Temperature Polymer, UL94V-0, Black
- Contact: Copper Alloy
- Shell: Stainless Steel

**MECHANICAL PERFORMANCE**
- Insertion Force: 5N to 20N
- Extraction Force: 8N to 20N
- Extraction Force (after durability): 6N to 20N
- Durability: 10,000 mating cycles

**ELECTRICAL PERFORMANCE**
- Contact Resistance: 40mΩ max. initial for VBUS, GND and all other contacts
- Insulation Resistance: 100mΩ min. initial
- Dielectric Withstanding Voltage: 100V AC

**PACKAGING**
- Tray/Tape and Reel available upon request

**SPECIFICATION**
- Amphenol Product Specification: USB Type C Series Spec

**APPROVALS AND CERTIFICATIONS**
- RoHS

**PART NUMBERS**

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
<th>Part Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>USB 3.1 Gen 2 Type C Receptacle</td>
<td>Right angle, Top mount dual SMT, 0.9mm shell tab</td>
<td>12401610E4#2A</td>
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<tr>
<td>USB 3.1 Gen 2 Type C Receptacle</td>
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<td>USB 2.0 Type C Receptacle</td>
<td>Right angle, Mid mount SMT</td>
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<td>USB 3.1 Gen 2 Type C Receptacle</td>
<td>Right angle, Mid mount SMT, Short type</td>
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<td>USB 3.1 Gen 2 Type C Receptacle</td>
<td>Right angle, Top mount SMT, High-rise type</td>
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<td>Right angle, Mid mount SMT, IPX8 waterproof</td>
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<td>USB 3.1 Gen 1 Type C Receptacle</td>
<td>Right angle, Top mount Hybrid, Double shells</td>
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<td>USB 3.1 Gen 2 Type C Receptacle</td>
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<td>USB 3.1 Type C Plug</td>
<td>Straddle mount</td>
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**ENVIRONMENTAL**
- Humidity: 40±2°C, 90 to 95%(RH), for 96 hours
- Temperature Life: 105±2°C for 120 hours

**TARGET MARKETS/APPLICATIONS**
- Charger
- Car Media Player/Hub
- Telecommunication
- Connector Hub
- Flash Disk
- Mobile Phone/Tablet
- VR Camera
- Hard Disk Drives
- Solid State Drives
- Industrial Computer
- POS System
- Medical

For more information, please contact: Marketing@fcicom or visit us at www.amphenol-icc.com

Disclaimer
Please note that the above information is subject to change without notice.