# USB 3.1 Gen 2 Type C Connector

## Superior performance up to 10Gb/s

## COMPACT, HIGHLY RELIABLE, HIGH SPEED CONNECTOR

USB 3.1 Type C Gen 2 is the future of the USB technology providing multifunction single cable solution for Data, Power, Audio and Video. The slim form factor supports the evolving design trends. The reversible design enables quick and easy connections no matter which way it is inserted. It supports scalable power delivery up to 100W and performance speed up to 10Gb/s.

- Supports SuperSpeed communication 10Gb/s
- Reversible plug and cable orientation
- Slim and sleek design
- Better EMI shielding design



### TARGET MARKETS



### FEATURES

- Supports SuperSpeed communication 10Gb/s

- Reversible plug and cable orientation

- Robust and small form factor design

- Better EMI (Electromagnetic Interference) shielding design

- RoHS compliant and lead-free

### BENEFITS

- Minimizes user waiting time
- Ready for next-generation applications

- Ensures quick and easy connections whichever way it is inserted

- Tailored for emerging product designs
- Suitable for applications in very thin platforms and the I&I market

- Protects against EMI and ESD (Electromagnetic Discharge)

- Meets environmental, health and safety requirements

> **USB 3.1 Gen 2 Type C Connector**

# TECHNICAL INFORMATION

## MATERIAL

- Housing: High Temperature Thermoplastic
- Shell: Stainless Steel
- Terminal: Copper Alloy

## MECHANICAL PERFORMANCE

- Mating Force: 5 to 20N
- Durability: 10,000 mating cycles

## ELECTRICAL PERFORMANCE

- Low Level Contact Resistance:
  - Initial: 40mΩ max.
  - $\Delta R = +/- 10m\Omega$ max. after environmental stress
- Insulation Resistance: 100MΩ min.
- Transfer SuperSpeed: 10Gb/s
- Voltage Rating: 100VAC/DC
- Current Rating:
  - 5.0A for VBUS and GND
  - 1.25A for Vconn and GND
  - 0.25A for all other contacts

## PACKAGING

- Receptacle: Tape/Reel
- Plug: Tray

## SPECIFICATION

- Amphenol Product Specification: GS–12–1351

## ENVIRONMENTAL

- Operating Temperature: –55°C to 85°C

## TARGET MARKETS/APPLICATIONS

Infotainment

Adaptor
Flash Drive
Laptop
Phone
Portable Power Bank
Portable HDD
Tablet
Wearable Device

Motherboard Add–on Card
Storage Adaptor
Storage Enclosure

Factory Automation Equipment
Industrial Equipment

# PART NUMBERS

| Description | Orientation | Mounting Style | Part Numbers |
|---|---|---|---|
| USB 3.1 Type C Gen 2 receptacle | Right angle | Top mount SMT + DIP (Long shell) | 10133476–10001LF |
| USB 3.1 Type C Gen 2 receptacle | Vertical | Top mount dual SMT | 10132328–10011LF |
| USB 3.1 Type C Gen 2 plug | – | – | 10133475–10001LF |
| USB 3.1 Type C Gen 2 receptacle | Right angle | Top mount dual SMT (Short body) | 10137737–10001L |

www.amphenol–icc.com

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

INOUSB31GEN2127TEA4