

# INTRODUCING USB TYPE-C RECEPTACLES

- Deliver data, power and A/V through a single connection at faster speeds
- Enable easy, reliable mating with reversible design



TE Connectivity (TE) introduces the new USB Type-C receptacle, providing one solution to deliver data up to 10 Gbps, power up to 100W and audio/video input in a single connection. The USB Type-C connector is the next-generation solution for current and future USB applications. This connector is designed to an industry standard that provides a slim profile small enough for handheld devices yet robust enough for industrial applications. Featuring a reversible mating interface, the receptacle is designed to accept a plug in any direction, enabling easy, reliable mating. This connector supports a variety of protocols and, with the use of adaptors, is backwards compatible to HDMI, VGA, DisplayPort and other types of connections from the single USB Type-C port. TE's new USB Type-C receptacle is designed with industry-leading EMI protection and enhanced retention features.

## BENEFITS

- Deliver data, power and audio/video through a single connection at faster speeds
- Enable easy, reliable mating with reversible design
- Allow backward compatibility to other USB connectors using converter cables or adaptors
- Support high speed data transfer with USB2.0 (480 mbps), USB3.1 gen 1 (5 Gbps) & USB3.1 gen 2 (10 Gbps)
- Increase power capability up to 100W at 20V
- Provide increased durability with additional board retention features
- Help eliminate unwanted EMI leakage and provide enhanced performance over similar legacy products with industry-leading EMI protection

## APPLICATIONS

- Factory automation
- Industrial machinery
- Data centers
- Medical devices
- A/V digital switches
- Power packs and chargers
- Automotive infotainment
- Business equipment
- Lighting
- Tablets
- PCs and laptops
- Wearables
- Smart phones

## LEARN MORE

[USB Type-C Connectors Overview Page](#)

[USB Type-C Video](#)

[USB Type-C Product Flyer](#)

[USB Type-C Customer Presentation](#)

[USB Type-C Parts List](#)

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## ELECTRICAL

- Voltage Rating: 30 V Max.
- Current Rating:
  - VBUS pins: 5A Max, GND pins: 6.25A
  - VCONN pins: 1.25A Max
  - Signal pins contact: 0.25A Min
- Low Level Contact Resistance : 40 m $\Omega$  (Max) initial for VBUS, GND and all other contacts. Maximum change (delta) of +10 m $\Omega$  after environmental stresses.
- Dielectric Withstanding Voltage:100VAC (rms) for 1 minute at sea level

## MECHANICAL

- Insertion Force: Between 5N and 20N
- Extraction Force: Within the range of 8 N to 20 N, measured after a preconditioning of five insertion/extraction cycles;The extraction force shall be within the range of 6 N to 20 N after 10,000 insertion/extraction cycles.
- Durability: 10,000 cycles

## MATERIALS

- Contact: Copper alloy
- Housing: Thermoplastic, UL 94 V-0
- Shell: Stainless steel

## STANDARDS & SPECIFICATIONS

- TE 108-99061 Design Objective Specification

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