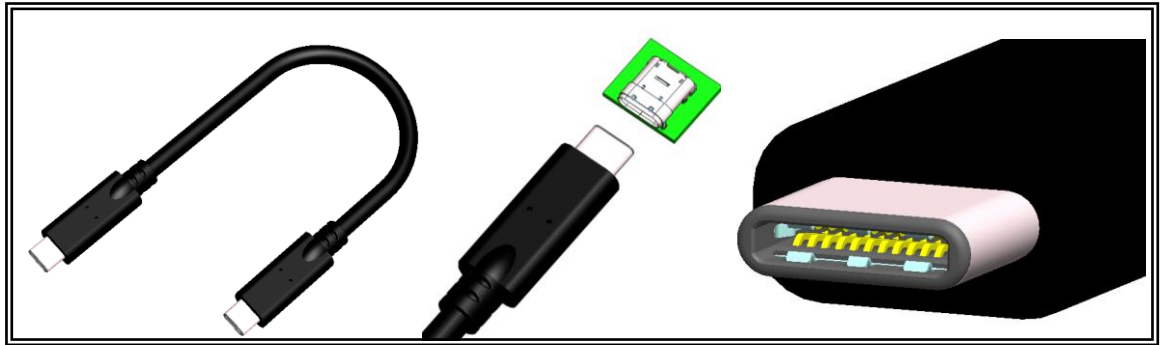




USB 3.1 Type-C Cable Assemblies



PalCONN, the Interconnect Division of PalPilot

Applications

SuperSpeed Hubs
SuperSpeed A/V
Display Dock
Printer/Tablet
Smart Phone
Webcam/Storage

USB Specifications

USB 2.0
USB 3.1
USB PD Rev 2.0

Data Rates

USB 1.1 12Mbps
USB 2.0 480Mbps
USB 3.0 5Gbps
USB 3.1 Gen 1 5Gbps
USB 3.1 Gen 2 10Gbps

Abbreviations

SS=SuperSpeed
SSP=SuperSpeedPlus

Type-C Cable Features

CC pins - used to detect connections & configure the interface across USB Type-C cables and connectors.

Vconn +5V pin powers circuits in the plug needed to implement Electronically Marked Cables. Vconn is independent of VBus.

The USB Type-C Connector and Cable specification defines a new receptacle, plug, cable and detection mechanisms that are compatible with existing USB interface electrical and functional specifications.

• Type-C Compliant Cable Assemblies and Legacy Adapter Assemblies

- USB 3.1 Type-C to Type-C plug on each end, Gen 1, $\leq 2M$ length
- USB 3.1 Full Featured Type-C plug on each end, Gen 2, $\leq 1M$ length
- USB 2.0 Power only, Type-C plug on each end, $\leq 4M$ length
- USB Type-C plug to Micro B receptacle, USB version 2.0, $\leq 0.15M$
- USB Type-C plug to Type-A receptacle, USB 3.1, Gen 1, $\leq 0.15M$

• Key Characteristics

- Supports SuperSpeed, 5Gbps or SuperSpeedPlus, 10Gbps
- Supports (2) power sources, Vbus-cable bus pwr, Vconn-plug pwr.
- USB Power Delivery capacity 3A@20V for standard cables.
- All cables include shielding (braid) terminated as close as 360° to plug metal shell, to control EMC.
- All cables that are either full-featured and/or rated at more than 3A current are Electronically Marked Cables, a Type-C Port Controller chipset is included in each plug at each end of cable assembly.



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