# DATA SHEET

Connect any two USB-C or Thunderbolt™ 3 enabled devices such as a tablet, smartphone, or laptop.

## OVERVIEW

This one cable offers high speed data transfer, 4K video support, high bit depth audio, and power delivery. Get more done with less hassle by carrying one cable to complete nearly any task.

Deliver up to 10Gbps to or from a USB 3.1 (Gen2) enabled port. Whether uploading or downloading data this cable is an ideal solution to transfer large amounts of information, such as high resolution photos for editing or storage, 3D models for video game authoring, or HD video for editing.

Stream video and audio with full DisplayPort 2.1 and "Alt" mode functionality, displaying up to 4K video with amazing contrast and color depth to see photos, videos, and text with unbelievable detail.  4-channel audio with microphone support ensures crisp, lifelike audio delivery.

Ensure that a USB-C equipped laptop, smartphone, or tablet is fully charged and ready to go while displaying video content, transferring files, or streaming audio. Deliver up to 60W of charging power to or from the connected device with smart power delivery. The USB-C cable offers a light-weight, portable, and simple way to deliver video and data—all while staying charged up!

The USB-C connector has a robust design, allowing for the connector to be plugged in and un-plugged up to 10,000 times. The sturdy construction ensures that the product provides peace of mind and is built to stand up to the rigors of the most demanding on-the-go life. The USB-C connector has a symmetrical design which is identical on both sides, so it does not matter if you plug it in upside-down or right-side-up. It will plug in correctly the first time, every time while preventing damage to the connector port.

## FEATURES

- Supports all USB 3.1 (Gen2) including data transfer rate up to 10Gbps
- Backward compatible with USB 3.0, 2.0, and 1.1
- Supports all "Alt" mode features, outputting full DisplayPort – including multi-streaming
- Delivers up to 60watts of power to or from a connected source
- Gold flashed laser welded contacts
- USB-IF Certified

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## SPECIFICATIONS:
## USB-C 3.1 (USB 3.1 Gen 2) USB-C Male to Male Cable

### ELECTRICAL CHARACTERISTICS:

| | |
|---|---|
| USB Specification: | USB 3.1 (Gen 2) |
| Pair Attenuation: | ⩾ -1.02dB at 50MHz, -1.43 dB at 100MHz, -2.40 dB at 200MHz, -4.35 dB at 400MHz |
| Pair Differential Impedance: | 75 - 105[OHM] |
| Propagation Delay: 2 | 0ns max |
| Skew: | 100ps max |
| Fitted Insertion Loss (ILfitatNq): | ⩾ -4dB at 2.5GHz, -6dB at 5GHz, -11dB at 10GHz |
| Voltage Drop: | 250mV for GND and 500mV VBUS |
| Conductor Resistance: | 378[OHM]/km at 20[D]C Max 30AWG |
| Insulation Resistance: | 10m-km min at 20[D]C DC 500V (EIA-364-21) |
| Dielectric Strength: | AC 500V/1 minute no breakdown (EIA-364-20) |

### PHYSICAL CHARACTERISTICS:

| | |
|---|---|
| Operating temperature: | 0[D] - 50[D]C; 15-85% RH (Non-condensing) |
| Storage temperature: | -25[D] - 70[D]C; 15-85% RH (Non-condensing) |
| Inner Jacket Shield: | Braid (16/11/0.08 Tinned Copper) |
| Jacket: | 5.2±0.15mm – Black |
| Approvals: | CE, RoHS2, USB-IF |
| Housing materials: | Plastic |
| Housing dimensions (LxWxH): | 27±.01 x 6.5 x 6.4±.01mm |
| Cable length: | 1000mm ± 20mm |
| Weight: | 0.121 lbs (54.88 g) |

### CONDUCTOR (4 PAIR):

| | |
|---|---|
| Conductor 1 – 4 Pair: | 30AWG (7/0.10 Bare Copper) Drain (19/0.06 Tinned Copper) Shield (Aluminum Foil) |
| Conductor 2 – 1 Pair: | 32AWG (7/0.08 Bare Copper) Drain (7/0.08 Tinned Copper) Shield (Aluminum Foil ) |
| Conductor 3 – 2 Conductors: | 26AWG (19/0.1 Bare Copper) |
| Conductor 4 – 4 Conductors: | 34AWG (7/0.06 Bare Copper) |

### CONNECTOR TYPE (QUANTITY 2):

| | |
|---|---|
| Connector: | USB-C Male 3.1 (Gen 2) Contacts (Gold Flashed) Shell (Nickel Plated) |

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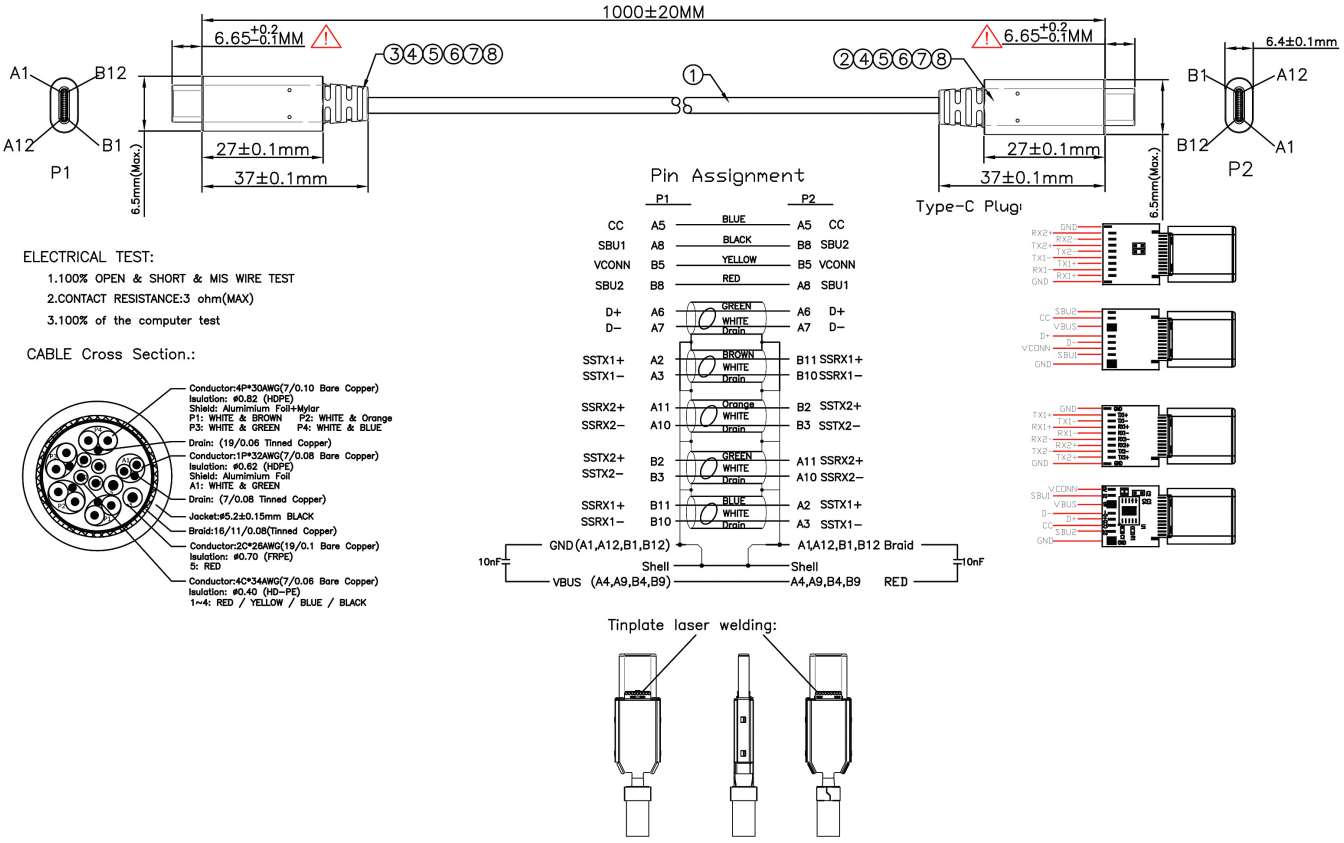


## ITEM DESCRIPTION

88848 USB-C 3.1 (USB 3.1 Gen 2) USB-C Male to Male Cable

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