USB-C The Next Cable Revolution

Tired of carrying a different cable for every mobile device? USB-C solves the problem. It's the new universal standard, coming soon to virtually every new mobile phone, tablet, Ultrabook, hard drive, and more. The time for USB-C is now.

Use the new USB Type-C cable to charge devices, power a laptop, transfer data, connect a printer, and sync your data.

We live in a connected age. Smartphones. Tablets. Digital cameras. Music players. Fitness bands. Smart watches. GPS navigation devices. Laptop and desktop computers. We use them to do our jobs, stay in contact with friends, watch movies, play music, upload videos and photos, monitor our vital signs, pinpoint our location, and even go shopping.

We depend on these devices and that means staying charged is critical to communicating and storing data everywhere — at work, school, home, and on the go. Beyond talking and texting, 62 percent of wireless users look up health data, do online banking (57 percent), check real-estate listings (43 percent), and even search for a new job (43 percent).[1]

Staying charged is so important for maintaining communications, it's now common to plan ahead when traveling to locations where there's no place to plug in a charger — concerts, amusement parks, sporting events, restaurants, hiking, and the beach.

The problem is everywhere: in Western Europe where smartphone ownership will hit 67 percent by 2018,[2] In the United States, where 64 percent of adults currently own a smartphone,[3] and in Latin America where smartphone ownership jumped from 114 million units in 2013 to 146 million in 2015.[4]

Even if you purchase an external power pack or battery pack, you still need the right cable to connect it to each of your devices and to recharge it. If you travel light,

	LIGHTNING	USB-C	MICRO USB	USB 2.0 (Male)	USB 2.0 (Female)	USB 3.0 (Male)	USB 3.0 (Female)	MICRO-B	MINI-B	30-PIN	USB-B
CONNECTOR TYPES											
DEVICE EXAMPLES											
	iPhone 6 iPhone 5 iPad Air 2 iPad mini	Macbook Chromebook Pixel USB-C Charger	Smartphone Tablet Hard Drive Digital Camera	Thumb Drive Keyboard Mouse	Laptop Desktop Computer USB-A Charger Battery Pack	Thumb Drive Hub	Laptop Desktop Computer USB-A Charger Battery Pack	Samsung Galaxy S5 Hard Drive	Digital Camera	iPhone 4 iPad (3rd gen) iPad (2nd gen) iPod	Printer Scanner
RECOMMENDED USB-C CABLES	**3.0 USB-C TO USB-A** ADAPTER	**3.1 USB-C TO USB-C** CABLE	**2.0 USB-C** TO MICRO USB CHARGE CABLE	**3.0 USB-C TO USB-A** ADAPTER	**2.0 USB-A TO USB-C** CHARGE CABLE	**3.0 USB-C TO USB-A** ADAPTER	**3.1 USB-A TO USB-C** CABLE	**3.1 USB-C TO MICRO-B** CABLE	**2.0 USB-C TO MINI-B** CHARGE CABLE	**3.0 USB-C TO USB-A** ADAPTER	**3.0 USB-C TO USB-A** ADAPTER

Belkin offers USB-C cables for data transfer and charging with a variety of connectors compatible with virtually any existing device with a USB port.

with just a phone, tablet, camera, and smart watch, you may still need up to four different cables and four different chargers. Add a laptop computer, and you'll need yet another cable and charger. It's a lot to carry. There's got to be a better way.

The problem is simple: The USB® cables and connector plugs used by most devices have changed. Over the years, as our phones, tablets, and other devices have shrunk in size, so has the shape of the connector. Today, there are nearly a dozen different USB connector plug shapes and they all fit only one way. If the idea of technology is to simplify our lives, this frustrating hodge-podge of USB cables certainly hasn't helped.

USB-C: A Type-C Cable for Your Every Need

Wouldn't it be nice if there was a cable with an industry-standard connector that fit virtually any device? No more figuring out which cable belongs to each device. And wouldn't it be a time-saver if that connector had no top or bottom so you could never inadvertently insert it upside-down? Imagine if that same cable could also carry an electrical current, strong enough to power your laptop computer or even a large-screen monitor. After nearly 20 years, the cable we've been wishing for is finally here. It's nothing short of a revolution. It's USB-C, also known as USB Type-C™.

After years of wrangling with different, incompatible cable types, USB-C, serves like a docking station in one simple connector, it's the one cable for charging devices, transferring data, connecting to a printer, and syncing the data on your devices with your computer at maximum speed.

- At home: Connect your mobile phone, tablet, or other device to the USB-C port on your computer to manage photos and videos, transfer data, and sync your music library at the fastest speeds possible.

- At work: Bring your laptop computer into the office and connect directly to a personal printer or scanner with a USB-C cable. No more fumbling to find the right cable for each device.

- At school: Connect directly to the campus network with a USB-C cable and Ethernet adapter to avoid the weak signal, slow performance, and traffic jams caused

when hundreds of other students access Wi-Fi simultaneously.

- In the car: Plug your smartphone into the vehicle's entertainment system and navigate to your destination or listen to music without the battery drain that can occur when using Bluetooth®.

USB-C is 100-percent compatible with all of your existing USB 2.0 and 3.0 devices. Belkin offers a complete collection of cables to connect virtually any device equipped with a USB port.

USB-C benefits

The user-friendly USB-C, or USB Type-C, connector is reversible, so it can't be plugged in upside down. USB-C cables can be used with a vast array of devices, including phones, tablets, cameras, keyboards, mice, and hard drives. It can even carry enough electrical current to power large, high-resolution display monitors.

Perhaps the most impressive thing about USB-C cables is that they can transfer data at very high speeds, can power and charge devices, and can carry audio and video streams — all at the same time. That means fewer cables to carry around. And since one port now accommodates all of those capabilities, designers can create USB-C enabled devices that are thinner and lighter than ever before.

Those data speeds are amazing. USB-C is capable of transferring data at up to 10 gigabits per second (Gbps). That means it's now possible to download an entire high-definition, feature-length movie in just 30 seconds. That's up to 20 times faster than the 480 megabits per second speed (Mbps) of USB 2.0, the USB standard that's still the most widely used.

Those blazing data rates enable USB-C cables to deliver ultra-HD 4K video resolution to USB-C and HDMI displays. That's four times the resolution of a standard high-definition. The result is an image that's far sharper, clearer, realistic than ever before.

Power for many device

USB-C cables can carry far more electrical power than earlier USB cables, up to 20 volts and 100 watts of power. That's enough capacity to power everything from a laptop computer to a large, high-resolution display monitor and even some printers. A battery pack with a USB-C connector will be able to recharge the internal battery on the next generation of laptop computers. That's especially useful for tablets and phones that have sealed batteries that can't be removed.

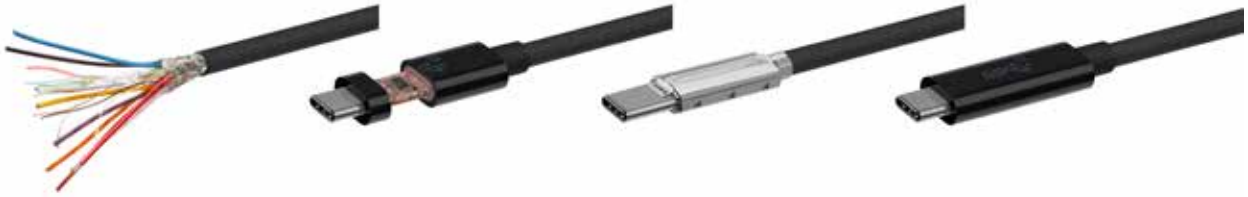
Devices that feature a USB-C port charge quickly and offer ultra-fast data-transfer speeds for connecting to external devices and peripherals. USB-C also supports audio/video output, including HDMI®, VGA, and DisplayPort™ displays. With USB-C, just one cable or power source could potentially power all your USB-C devices.

A Belkin USB-C cable for every need

Until we live in a world where every device features a USB-C port, you'll still need to connect with existing devices. Belkin offers a USB-C cables to cover every possibility:

- **USB-C to USB-C.** With a USB-C plug at both ends, this is the cable of future, available today, capable of transferring power, data, and multimedia content between new systems and devices with USB-C ports. It supports speeds up to 10 Gbps and can charge USB-C systems and devices with up to 20 volts at up to 3 amps (60 watts maximum power throughput).

- **USB-A to USB-C Charge Cable.** It's the perfect choice for transferring power and data between existing systems with USB-A ports (the type on most desktop and laptop computers, keyboards, and mice) and new devices with USB-C ports. It can



USB Type-C wiring supports a 24-pin double-sided, reversible connector plug. A built-in E-marker chip describes each cable's characteristics, including the maximum power load it can carry. The chip is electrically shielded in a metal housing then sealed within a thermoplastic grip.

charge USB-C systems and devices with 5 volts at up to 3 amps (15 watts maximum power output) and also supports USB 2.0 data speeds of up to 480 Mbps.

- **USB-A to USB-C Cable.** Everyone knows USB Type A. It's the original USB cable with a rectangular plug that's still used by just about every laptop and desktop computer. This cable transfers power and data between all existing systems with USB-A ports and new devices with USB-C ports. It supports speeds up to 10 Gbps and charges USB-C systems and devices with 5V at up to 3 amps (15 watts maximum power output).

- **USB-C to Micro USB-B Charge Cable.** Charge and sync between new systems with USB-C ports and existing devices with Micro USB-B 2.0 ports. It charge Micro USB-B 2.0 devices with 5 volts at up to 3 amps (15 watts maximum power output) and supports USB 2.0 data speeds.

- **USB-C to Micro USB-B Cable.** Charge and sync between new systems with USB-C ports and existing devices with Micro USB-B 3.1 ports. It supports speeds up to 10 Gbps and can charge Micro USB-B 3.1 devices with 5 volts at up to 3 amps (15 watts maximum power output).

- **USB-C to Mini USB-B Charge Cable.** Charge and sync between new systems with USB-C ports and existing devices with Mini USB-B ports. Charge Mini USB-B devices with 5 volts at up to 500 mA (250 watts maximum power output). It also supports USB 2.0 data speeds

- **USB-C to USB-B Printer Cable.** Connect new systems with USB-C ports and existing devices with USB-B 2.0 ports, including printers and external storage devices. Charge USB-B 2.0 devices with 5 volts at up to 3 amps (15 watts maximum power output). It also supports USB 2.0 data speeds

- **USB-C to USB-A Adapter.** Connect new systems with USB-C ports to existing cables or peripherals with a standard USB-A connector.

- **USB-C to Gigabit Ethernet Adapter.** Connect new systems with USB-C ports to Gigabit Ethernet networks.

Cables are just the beginning. Look for entire range of USB-C products from Belkin, including adapters, hubs, and power devices.

Quality and expertise: The Belkin difference

Belkin engineers maintain strict standards to ensure that every product is designed and tested to meet the highest standards for quality. We take pride in the quality of every Belkin product. Belkin maintains complete control of the production process, from initial idea to final product.

Every Belkin USB-C product model is subjected to stringent testing and each has earned certification from USB-IF (the USB Implementers Forum, the worldwide overseer of the USB standard). Not every USB-C accessory manufacturer takes the time to do this.

We highly recommend that you only purchase USB-IF certified USB-C cables, otherwise you risk damaging or destroying your device. Benson Leung, Google engineer, encountered this risk while conducting testing on different USB-C cables. During his testing Leung

"Belkin's USB Type-C to USB Type-A Charge and Data cable is excellent. This cable meets the USB Type C Specification, meaning it correctly identifies as "Default USB Power" as per the USB Type C Specification Section 4.11. Other cables (see my reviews) use incorrect CC termination to identify the cable incorrectly to the device it charges. This cable is safe to use with all of your USB Type C devices and legacy Type-A ports."

— BENSON LEUNG

permanently damaged his laptop with a cable that did not adequately meet the specification standards. Present day, Leung continues his mission to test as many cables as possible to prevent this from happening to someone else.

To identify counterfeit or uncertified cables and accessories, look for the certification mark on the cable, USB certification emblem on packaging, and consistent design on the product packaging. Whenever possible purchase directly from Belkin or an accredited retailer, you will have peace of mind in knowing you have purchased a 100% certified product.

You can be assured that every Belkin USB-C product meets international electrical, mechanical, and reliability standards and can be used with confidence in any market worldwide. Belkin USB-C products are guaranteed to not just work; they are guaranteed to reflect our intense commitment to excellence.

USB-C is already on its way to becoming the industry standard for manufacturers of devices of all types. It was chosen by Apple® as the sole power and data connector on its newest ultra-thin MacBook® computer. Dozens of USB-C enabled products are already available, including Chromebook™ computers, flash drives, portable hard drives, and computers. Hundreds more are on the way, including smartphones, tablets, and monitors.

The Windows®, Google®, and Mac® OS operating systems, as well as many peripheral manufacturers already support the USB-C standard (known officially as USB Type-C). In the European Union, where a universal charger and cable that works with any mobile phone is mandated by law, USB-C is the answer. That's great news for consumers worldwide: With only a few exceptions, just about every kind of electronic device will be powered, charged, and connected by USB-C cables.

Summary

The timing is perfect for USB-C. Our mobile lifestyles and the need to stay connected demands one connection for data and power that works with any device, anytime, anywhere. Nearly every mobile device still needs to be recharged or powered through a cable. USB-C is quickly becoming the one cable standard for every device.

When you standardize on devices that connect with USB-C, there's less to carry, no more searching for the right cable, and no more cable tangles. Whether you simply need to recharge or transfer data, sync the content on your device and computer, watch video on an ultra-high-definition 4K monitor, or even deliver enough electrical current to power laptops and displays, USB-C is the one cable that does it all. Belkin has a USB-C cable to meet every need, certified and guaranteed.

Specifications are subject to change without notice. An active Wi-Fi® connection, customer-purchased Internet Service Provider broadband account, and/or wireless telecommunications carrier account are required for connection of wireless devices to a local network, the Internet, or wireless telephone or other service.

[1] http://www.pewinternet.org/2015/04/01/us-smartphone-use-in-2015/
[2] http://www.statista.com/statistics/203722/smartphone-penetration-per-capita-in-western-europe-since-2000/
[3] http://www.pewinternet.org/2015/04/01/us-smartphone-use-in-2015/
[4] http://www.bnamericas.com/en/news/telecommunications/one-quarter-of-latam-population-to-own-smartphone-by-end-2014-emarketer?idioma=en
[5] http://money.cnn.com/2016/02/05/technology/usb-c-cords/