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Homemade micro usb to hdmi wiring diagram

Portable devices like smartphones, iPods, GPS devices and more are supposed to make our lives easier. But they all use different USB connectors (micro, mini, 30-pin, Lightning...), so if you leave the wrong cable at home, all you've got is an expensive paperweight. Bring every cable and you've got a tangled, bulky mess. To pare down to 1 cable, I bought some connector tips (see Step 1), each with a different end, but I kept losing them. I saw several 2-in-1 and 3-in-1 connector cables on the market, but many had low ratings, none had all the connectors I needed, and I wanted to make use of what I already had, so I decided to see what I could come up with. One of the connector tips, from Lenmar, had a handy loop built in. I used a small cellphone strap with a split ring and lobster clip to attach it to the cable (see Step 2). I had a few on hand that had come with other products, but it also turns out you can buy them in bulk fairly cheaply. None of the other connector tips had a friendly attachment loop built in. Enter the Sugru and a paper clip! (see Step 3). As a bonus, I stamped my initials into the Sugru, so not only did I add an attachment loop, I also id'd them as mine. The result is my own flexible 4-in-1 connector, pictured below. This cable is small enough to fit just about anywhere. I can charge from my laptop, a wall charger or my lovely little Goal Zero Guide 10 Plus which uses rechargeable AA batteries. And, if the inputs or outputs on my future devices change, my adapter cable can change with it. Enjoy! Look at your devices and figure out which connector tips you need. Use the photo to identify a few different types of USB connectors. Common connectors include: the standard flat USB USB mini - commonly found on cameras and older phones or bluetooth devices USB micro - flatter and smaller than USB micro, commonly found on newer devices, including phones and bluetooth Apple 30-pin - found on iPhones through iPhone 4, iPods through __, and iPads through iPad 3 Apple Lightning connector - found on iPhones 5 and up, iPods __ and up, and iPads 4 and up I had a USB to USB-micro cable handy, and I'd purchased a micro-to-30-pin connector tip as well as a micro-to-mini connector tip. When I got an iPhone 5, I purchased a micro-to-lightning connector tip, too. These had all been under \$10 each, most under \$5.Note: Be careful to match the direction of your connector tips - female-to-male (inny-to-outy) vs. male-to-female - so they're all compatible. Since I'm using a USB cable with a male micro USB end (far right in photo), all my connector tips have female micro USB connections (on the ends you can't see in the photo) and male mini, 30-pin or Lightning connectors on the ends you can see. Since some of the connector tips didn't have a loop to attach them to my cable, I added loops, using bent paper clip bits held in place with Sugru. Just for fun and a bit of ID, I use letter sets to add my initials. I made this over 6 months ago, use it almost daily, and travel and hike with it, and it hasn't come apart.Tools & materials: Needle nose pliers/wire cutters or equivalent a paper clip or two 1 pack of Sugru USB connector tips of your choice Optional: superglue Instructions: Straighten a short bit of paperclip and cut it off Use the needle nose pliers to bend it into the shape of a '6' or similar (see piece in photo). Aa 'U' shape might easily pull out, but if you bend the paper clip so it has a tail, that will help hold it in place. Place the paperclip loop on a flat side of the connector in a way that won't block either end - optional: you can superglue the paperclip to the connector Press a lump of Sugru over the paperclip and smooth it out Optional: add your initials with letter punches, if you want Let dry overnight There are lots of ways to attach the tips to the cable. Here's how I did it: Put a split ring on the cable itself, and add a lobster claw to the split ring. Connect the cell phone straps to the tips using the split ring on each strap Then simply clip the other end of the strap onto the lobster claw Done! This one little cable will let me power or charge all my devices. I've added a lobster claw to a longer USB cable, because sometimes one tiny short cable just won't do. I have 2 Limit switches, 1 6v DPDT relay, and a motor. By using a timer, I would like to reverse the direction of the motor when it reaches the respective limit switches. Can someone help me with my connections. I numbered all the terminals so you can just tell me 3-5, 6-2, etc. Thank you so much in advance. Hi, I have a genius usb mouse(Model "GM-03023U Made in china), its cable near the usb male end got cut off and i could'nt trace the connections back to the circuit board. It has 5 wires from the circuit board. the cable can be plugged off from the circuit board and can be replaced with a new cable. but i can't find such a cable. so can any one help me how to solder the wires to a usb connector? Our editors independently research, test, and recommend the best products; you can learn more about our review process here. We may receive commissions on purchases made from our chosen links. The best micro USB cables should be durable and able to charge your phone or other devices at full speed. Micro USB cables used to be the most common cable and port for charging everything from smartphones and tablets to Bluetooth headphones and gaming mice, but these days USB-C is more common. Despite that, there are still plenty of devices that use micro USB cables. Our top choice for most people is the Fuse Chicken Titan Loop M at Amazon. Aside from the unique name, it's highly durable with steel around the wires to prevent tangling and breakage. It also supports fast charging and data transfer. If you have more USB-C devices, be sure to take a look at our list of the best USB-C cables. When you need to charge your phone, the best kind of cable is the one you've got on you. You don't want to carry around a long cable that'll get tangled and take up a ton of space, and you also don't want one that'll get damaged while stored in a bag, pocket, or purse. This is where the Fuse Chicken Titan Loop M cable comes in. This Micro USB cable is built with steel around the wires to make it extremely durable. It can also fold around on itself to create a loop that easily attached to keychains or bags. This cable can charge, with some fast charging supported, and transfer data. Though a bit more expensive than some models, Smart&Cool's GenX cable can come in handy if you need more options beyond just the Micro USB connection. This five-foot model uses a similar type of magnetic nib that stays plugged into your devices to easily connect to the cable. But, this version includes nibs for Micro USB, Lightning, and USB Type-C. So, in addition to data transfer and fast charging, you get plenty of versatility. Magnetic tips are one way to simplify plugging in Micro USB cables, but JianHan has a product that takes another route. The Micro USB and USB-A ends of this cable are both made to be reversible. The special design lets you plug it in without worrying about whether it's upside down. For the affordable price, you even get three cables of varying sizes, with a six-foot, three-foot- and 1.5-foot cable included. These cables can transfer data and support some fast charging. Sometimes you don't need anything too fancy, but just something that's just trusty. Rampow has a 6.5-foot Micro USB cable that will allow you to transfer data and charge devices quickly thanks to thick 21 AWG cables inside. This cable supports QuickCharge 2.0, making it a great pick for your devices that use that fast charging standard. This is a braided cable, which is often less prone to tearing or getting cut open to expose the wire. And, Rampow has backed the durability of this design with a lifetime warranty. Sometimes a normal Micro USB cable isn't the best one for the job. The straight connection found on the ends of most cables can make them inconvenient when you want to hold the device, tuck it away somewhere, or keep it plugged in in a specific position and orientation. CableCreation has angled Micro USB cables that plug in and then make a 90-degree turn. These are braided cables that support data transfer, and one reviewer has said they support QuickCharge 2.0 for fast charging. These are extra affordable in packs of two, and come they come in multiple sizes. Belkin has a handy cable to make your life easy and make your friends' lives easy, too. While most Micro USB cables would just have the Micro USB connection at the end, this one also keeps an adapter on the end that can convert the Micro USB to a Lightning connector. In other words, you can charge your device or an iPhone with this cable. So, if you've got multiple devices or are surrounded by friends who are always running out of battery, this cable has you covered. It can also transfer data using both connectors. If you're often rough on your USB cables and have run into lots of broken connectors or torn cables, then this one might be for you. Belkin's Mixit DuraTek Micro USB cable is built to be extra tough. The connectors at each end are enclosed in hard aluminum cases. The ends of the cables also are reinforced to handle a lot more bending than a basic cable, so it can handle more drops and use. Inside, it's even reinforced with Kevlar. This cable supports data transfer and fast charging, and Belkin backs it with a five-year warranty. There's not just one company that makes a cable ready for both Micro USB and Lightning connections. CableCreation has an affordable and handy 2-in-1 cable that has a Micro USB end. But, attached to that end is a Micro UBS-to-Lightning adapter, giving you an easy way to carry around one cable while having the option to charge and transfer data on both Android smartphones and iPhones, among other devices. This cable comes in a four-foot size or an easily portable 0.8-foot size, both of which are affordable. NetDot has an affordable, quality option for anyone who needs multiple cables and has multiple devices but wants the convenience of magnetic connections. For the price of some single Micro USB cables, NetDot offers a three-pack of 3.3-foot cables with Micro USB nips that can stay permanently plugged into your devices. Then, when you need to plug the devices in, you just need to put the magnetic end of the cable close to the nib and it'll snap right on. These cables support fast charging and data transfer, though data transfer is only supported with the cable oriented in one direction. Charging, meanwhile, works in either of the cables orientations. Monoprice has the cable you'll want for any extra long connections you might need to make. This is a 15-foot cable with a simple design and an affordable price. It's available in black or white. While there's little about it to get really excited about, it should prove handy. Both ends of the cable have some simple reinforcement, and there's a ferrite choke that can help prevent issues with data transmission and interference. If you need something simple, reliable, and long that you'll generally keep plugged in (rather than plugging and unplugging frequently), this is a good option. Anker is one of the better known brands for cables and charging accessories. The company offers high-quality components for a reasonable price, and the Anker PowerLine 6ft. is no exception. It consists of a six foot long micro USB cable that's reinforced with "bulletproof aramid fiber" to make it stronger than the average cable. According to Anker, it can stand up to more than 5,000 bends, so you don't have to worry about it fraying or getting tangled in your pocket. Fast charging and data transfer are both supported, along with a 18-month warranty. Final Verdict The best micro USB cable to get is the Fuse Chicken Titan Loop M (view at Amazon) for its impressive durability, ability to attach to keychains, and support for fast charging and data transfers. For a feature-packed option, we like the Smart&Cool GenX Nylon Braided 3-in-1 (view at Amazon). It comes with a variety of adapters to let you use it with Micro USB, USB-C, and Lightning cables, and supports fast charging.

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