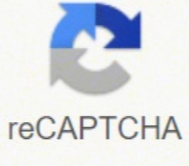




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Electrical drawing symbol for data outlet

Every engineering office uses their own set of electrical symbols; however, the symbols below are fairly common across many offices. Refer to the legend sheet in your set of plans for special symbols used in a particular set. Power Symbols Lighting Symbols Fire Alarm Symbols Arrow Indicates Direction of Egress Arrow Indicates Direction of Egress Security Symbols Communications Symbols Help make Archtoolbox better for everyone. If you found an error or out of date information in this article (even if it is just a minor typo), please let us know. Copyright © 2022 Archtoolbox. All rights reserved. Archtoolbox is a Trademark of Aggregate Digital LLC. If you're traveling outside of the US, you might need an electrical outlet converter or adapter. US-compatible outlets won't require one, but check with your destination for verification. Universal outlets are in many hotels that accept most electrical devices. Otherwise, have a converter with you just in case.VoltageVoltage is important. Check voltage requirements before you go. Look up information about your destination to get the outlet voltage used in the country first. Then, look at the electrical equipment you'll be taking to see what voltage they need. Plugging a high-voltage device into a standard electrical line can cause electrocution or damage the outlet and device. A power converter might be needed. For example, a 220v plug converter converts a European 220v to 110 volts so the American appliance can work on the current.Plug AdaptersElectrical plugs and sockets vary between countries, and a plug adapter may be needed. A three-prong plug converter allows an American two-prong plug to work in a European socket. World plug lists are available online that serve as a general reference guide. You can also find typical voltage requirements and frequency by country. Some countries have more than one plug type listed. Play it safe and pack an adapter just in case you need it. It will save you from damaging your electronic devices or having to buy a new one while you're overseas. The adapters can usually be found in international airports if you forget to pack one.Low-Wattage CircuitsMany countries have low-wattage circuits in the bathrooms. These can be a maximum of five to ten watts. This isn't enough for high-wattage hair dryers. Consider asking if the facility has hair dryers to use rather than taking one from home that won't work correctly. Or, buy one at a store in your travel destination.Computers and Mobile PhonesComputers, mobile phones, tablets and digital cameras usually have battery chargers that require dual voltage. Most travelers have one or more of these when they travel. These devices operate by circuit, chip or electronic motor. A transformer converts the voltage for electronic devices. Take one along with you to be certain you can use these techno devices.Points to NoteKeep in mind that many countries have fewer outlets than the US. So, you might have to search for outlets or use a device in an inconvenient location. An all-in-one converter is useful in most places around the world, which can be a handy device to have when traveling the globe. Countries develop their own standards for electricity. Check with a travel agent if you're going to multiple countries to make sure you're prepared. MORE FROM QUESTIONSANSWERED.NET By Meg Escott So you're trying to figure out all those electrical schematic symbols for TV, data, communications and sound? I have a pdf available with all the blueprint symbols and floor plans symbols that you can use as a reference. Go ahead and sign up below. These elements of home design are becoming more and more essential as the internet becomes more and more part of our lives. The way we consume and listen to TV and sound and the way we use the internet and wi-fi is constantly evolving.This page has the symbols and a checklist.This page is part of the blueprint symbols series.Get your free blueprint symbols file which includes all the blueprint symbols in one file. Most of the electrical schematic symbols for data, phone, TV and sound used on blueprints have become standard. Some architects or designers may use slightly different symbols. Always check with the key on your blueprints. Data and Communications Symbols The small horizontal line on the left of the symbol indicates that the outlet is wall mounted.A square around the symbol indicates that the outlet is mounted in the floor.If the symbol was mounted in ceiling this might be shown just as a plain symbol or with cross hairs. Tip for mobile browsers - these symbols are best viewed with your phone in landscape position. Phone jack symbol Data jack symbol Combined data / phone jack symbol Wi-fi booster Speaker symbol Volume control symbol TV jack symbol Data, phone, TV. Sound wiring checklist Make sure you know the location of you satellite dish or where the cable for cable TV will come into the house. It might not be as obvious as you think.Satellite dishes have to point a certain way. It's pretty easy to figure out roughly where a satellite dish needs to be by looking at others along your street but you have to know how the wire is going to come into the house, particularly if the satellite dish is on an upper floor. Is the wire going through the wall and down inside the house, or down outside the house and in on the bottom floor?Cable TV might come in under the ground from the street or you could be connected via an over head cable. So again it's important to know how the wiring will make its way from point of entry to each TV.How does your internet connection enter your home? Where will your modem(s) be located and do you need any wi-fi boosting points?How does your phone line enter your home? If the phone line is used to deliver internet and television services make sure the appropriate wiring is in place. If your security system is hooked up to the phone line check that wiring is in place as well. With wi-fi and mobile technology becoming more and more ubiquitous maybe it won't be long before many homes don't have a phone line at all.If you have the opportunity (through a new build or major remodel), it's worth considering having a communications control panel so that all those little ugly boxes can go in a neat little cupboard somewhere rather than be dotted about on your walls. More house plan symbols for you... Heating and air-conditioning systems, plumbing, electrical outlets and wiring (including lighting), and other mechanical systems are typically detailed in MEP (mechanical, electric, plumbing) plans, and installed by specialists in their field. While builders don't need to understand everything in the MEP plans, builders should be aware of how these systems will operate and where the wires and pipes will be placed. Architects also include information about outlets and switches in their power and data plans—which are part of the blueprints package—though these are generally not as comprehensive as MEP plans. Some elements of these plans will have more direct implications for builders as recessed lighting, ceiling fans, and features that have to be blocked (surrounded by a small frame) for support. Of the different systems on MEP plans, you'll want to pay special attention to the electrical elements and their placement. Jordan Smith explains in his Introduction to Reading Blueprints course: “The homeowner is going to interact with electrical much more than they're going to interact with things like plumbing lines or HVAC ductwork. There's going to be many points throughout the house where the homeowner's going to interact with light switches, with appliances and other things that are fed through the electrical system. So the architect pays a lot of attention to the electrical design.” While installation of the wiring and outlets will be left to an electrician, here are common blueprint symbols. These will typically also be listed in a legend, so it isn't necessary to memorize them all. Common Electrical and Lighting Symbols 1. Duplexes A circle off of the wall and connected to it by two parallel lines represents a typical outlet (or receptacle) with two sockets. Abbreviations and numbers next to the duplex provide additional information. For example, GFCI indicates a ground-fault circuit interrupter (an outlet with a built-in fast acting circuit breaker that prevents electric shocks and will typically be used with outlets near water, in bathrooms and kitchens). The number 220 next to a duplex indicates it's a 220-volt outlet, commonly used for appliances that require 220 volts, like ovens and dryers. Finally, if you see a square around a duplex or a quad (that is an outlet with four sockets) that indicates it's a floor receptacle. 2. Lights and fans The basic symbol for most lights is a circle and, as with duplexes, variations on how it is drawn and abbreviations next to it convey additional and essential information. The key on the floor plans will explain the particular symbols used on any project. For example, half of the circle may be shaded black to indicate it's an LED wall washer; the letter W next to it indicates it is intended for a wet area (like a bathroom). A recessed light is sometimes represented by a diagonal slash across the circle, though in other plans the letter R next to the circle is used to indicate that it should be recessed. Not all lights are represented by circles, however. A line with half-circles on each end may be used for under-cabinet lighting, and a line with small circles on either side is often used for strip lighting. Ceiling fans are often also represented by a circle, though with two angled lines extending off of it, symbolically representing (at least in a very loose way) the blades of a fan. A ceiling fan may also be indicated by a circle with three blades extending out from it. As Jordan explains, the lighting symbols are of special concern for builders because you have to make sure that you put blocking—that is, framing members—in all of these places to support ceiling fans and fixtures. 3. Switches When you see something that looks like a dollar sign on a plan, though with only one vertical bar, that's the common symbol for a switch. (Sometimes the bar is omitted and you'll see only an S.) If it doesn't have any other notation next to it, an S alone represents the most basic of switches, a single-pole one, but of course there's a huge variety of switches in contemporary houses. Three- or four-way switches, with one light controlled by multiple switches, are indicated by a small numeral next to the S. Dimmer, fused, remote-controlled, and weather-proofed switches, to pick a few examples, are typically indicated by abbreviations next to the S. 4. Appliances Outlets for larger appliances are often indicated by a triangle. Abbreviations next to them will indicate which appliance they are intended for: CD (clothes dryer), CW (clothes washer), DW (dish washer), R (refrigerator), etc. A television is typically indicated by the letters TV in a box. 5. Wire Runs Curving dashed lines on a floor plan, connecting switches and fixtures indicate (roughly) the route of wiring throughout the house. These wire runs are not precisely located on the floor plan—and they don't have to be. It will be the job of a master electrician to figure out the most appropriate placement for wires. The dashed lines on the floor plan are mostly for you, as the builder, to better understand how the future homeowner will live in the space, and which switches will correspond to which lights or other fixtures. At those points where you see one dashed line leap over another, it doesn't necessarily mean they will meet at that exact spot. Instead the plan is indicating to you simply that the two wire runs will pass by each other at some point in the room. MT Copeland offers video-based online classes that give you a foundation in construction fundamentals with real-world applications. Classes include professionally produced videos taught by practicing craftspeople, and supplementary downloads like quizzes, blueprints, and other materials to help you master the skills.

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