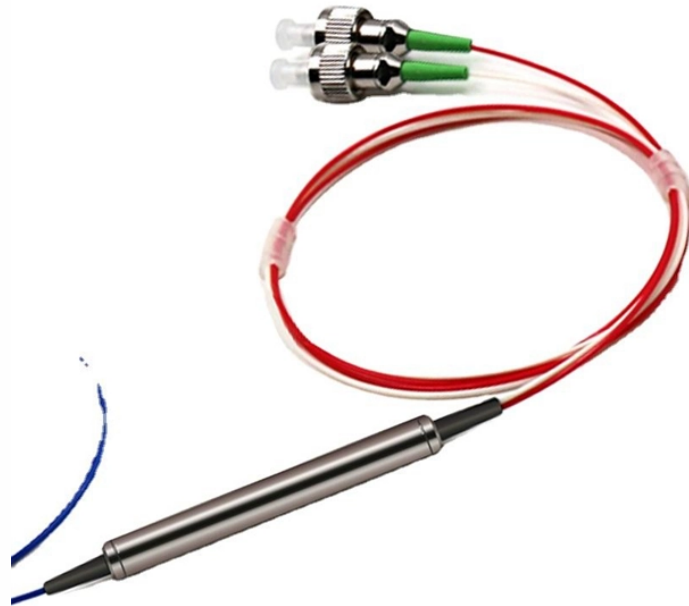


The cover of the electrical distribution box in the house



Overview

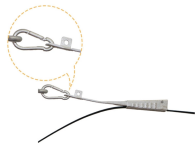
A service panel is a steel box with a hinged door or lift-up panel on the front. With the door open, you can access all the circuit breakers in the panel. Typically, one panel feeds the entire house, but there can also be another, smaller panel, called a subpanel, which may be used to serve a specific area, such as an addition, a large kitchen, or a garage. When you open the panel door, you gain access to the circuit breaker switches, but that's all. And that's as far as most homeowners need to go. However, to get inside the panel to install or replace a circuit breaker, you have to remove the protective cover around the breaker switches, known as the dead front cover. The dead front cover is typically a metal plate that covers the breaker switches. The main circuit breaker is a large breaker usually located at the top of the panel but sometimes near the bottom or along one side. It controls all the power of the branch circuit breakers (the breakers controlling individual circuits) in the panel. Power comes from the utility service lines, flows through the electrical meter on the outside of the house. The two

thick, black service wires feeding the main circuit breaker each carry 120 volts from the electric meter and feed the two "hot" bus bars in the panel. Circuit breakers snap into place onto one or both of the bus bars to provide power to the circuits. Single-pole circuit breakers provide 120 volts and connect to just one hot bus bar. Double-p. Once the power leaves the electrical service panel through the hot wire(s) of a circuit and does its work through the electrical devices (light bulbs, outlets, etc.), the electrical current returns back to the service panel through the neutral (usually white) circuit wire, which is connected to the neutral bus bar. The bar connects to the main servi.

The cover of the electrical distribution box in the house



An electrical panel, also known as a breaker box or distribution board, is the component of your home's electrical system that divides the electrical power into subsidiary circuits.



An electrical panel, also known as a breaker box or distribution board, is a crucial component of a house's electrical system. It is usually located in a utility room or basement and serves as the main ...



Learn all about your home's power distribution center in this helpful guide on home electrical service panels.



Electrical panel boxes, aka breaker boxes, can be on a wall in an out-of-the-way area of your home. You can find electric panels inside cabinets, behind refrigerators, or inside clothes ...



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It receives the incoming power from the utility company and distributes it to each of the circuits that supply the various lights, outlets, appliances, and other devices throughout the house. ...



Finding a solution must ensure the covering is both creative and completely safe for the homeowner and future electrical work. This article provides safe, actionable ideas for covering an ...



At the point where the power enters your house, you'll usually find an electric meter and main service panel, as shown in the illustration above and photo below.



Learn about the internal structure of a distribution box, its components, functions, and key types. Understand its role in electrical systems and safety.



All electrical panels require a cover, called a dead front, to prevent touching any of the electrified ("live") parts inside. The panel's circuit breaker switches should stick through openings in ...

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