

Horizontal junction box with one inlet and one outlet

Article Overview

A horizontal junction box with one inlet and one outlet is a surface-mounted electrical enclosure designed for side-to-side wiring connections, ideal for space-limited installations and organized cable routing.

Overview

A horizontal junction box is oriented flat against a wall, with terminals aligned horizontally, unlike traditional vertical boxes that are recessed and stacked vertically . This design is particularly useful in areas with limited clearance, such as behind furniture, baseboards, or cabinetry, allowing for easier access and cleaner wiring layouts .

Design and Material

- o **Material:** Typically made from PVC or other non-conductive plastics, which are moisture-resistant, corrosion-proof, and suitable for indoor environments like kitchens, bathrooms, or laundry rooms .
- o **Construction:** Durable, impact-resistant, and often fire-rated for safety. Some models are ETL listed and comply with 2-hour fire-rated wall standards .
- o **Dimensions:** Common sizes for single-gang horizontal boxes are around 86mm x 86mm per compartment, with sufficient internal volume to accommodate multiple wires safely .

Wiring Configuration

- o **One Inlet, One Outlet:** This configuration allows a single incoming cable to connect to a single outgoing cable, simplifying wiring and reducing clutter. It is ideal for straightforward circuits or when only one device or branch is needed .
- o **Installation:** The box can be mounted directly on the wall surface, often with integral wire clamps, captive screws, and secure tabs to keep conductors organized .

Advantages

- o **Space Efficiency:** Fits in tight spaces where vertical boxes would protrude or interfere with existing structures .
- o **Simplified Wiring:** Horizontal orientation allows wires to run side-by-side, reducing tangling and making maintenance easier .
- o **Safety:** Non-conductive materials and optional transparent covers prevent accidental contact and comply with electrical codes .
- o **Flexibility:** Adjustable depth boxes can accommodate different wall thicknesses and retrofit applications .



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Applications

- o Residential or light commercial wiring for outlets, switches, or under-cabinet lighting.
- o Retrofit projects where existing walls or cabinetry limit vertical space.
- o Industrial control panels where a single-inlet, single-outlet configuration is sufficient for a clean, organized layout . In summary, a horizontal junction box with one inlet and one outlet provides a compact, safe, and efficient solution for routing electrical connections in constrained spaces, offering both practical installation benefits and compliance with safety standards .

To install a junction box in outdoor ground, you'll need a buried junction box, also known as a resin or gel junction box.

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