

Cable tray for light boxes



Overview

Choose from our selection of cable trays, including over 850 products in a wide range of styles and sizes. Same and Next Day Delivery.

Key Takeaways

Cable trays can be repurposed as light boxes by leveraging their structural support, open or perforated designs, and mounting flexibility to safely house and diffuse lighting fixtures. Choosing the Right Cable Tray

Cable trays come in several types, each with features that affect their suitability for a light box:

- Ladder trays: Open design with side rails and rungs, allowing excellent airflow and easy access for mounting LED strips or tube lights. Ideal for industrial-style light boxes where ventilation is important .
- Perforated trays: Solid base with holes, providing a balance between support and ventilation. The perforations can help diffuse light and prevent heat buildup from lighting fixtures .
- Solid-bottom trays (troughs): Fully enclosed, offering maximum protection and a clean, uniform light diffusion surface. Best for applications where dust or moisture protection is needed .

Mounting and Installation



Cable trays can be mounted to walls, ceilings, or suspended from structures, making them versatile for light box applications. Using box or wall mounts designed for cable trays allows secure attachment of lighting fixtures inside the tray . For ceiling installations, ensure the tray is level and properly supported to handle the weight of the lighting components.

Integrating Lighting

- LED strips or tube lights are commonly used due to low heat output and flexibility. They can be attached along the tray's rungs or base using clips or adhesive.
- Diffusers: For ladder or perforated trays, adding a translucent acrylic or polycarbonate sheet over the tray can soften and evenly distribute light.
- Wiring: Keep electrical wiring organized within the tray, using cable ties or clips, which is consistent with the tray's original purpose of cable management .

Safety Considerations

- Ensure all electrical components are rated for the environment (indoor/outdoor, moisture exposure).
- Maintain proper spacing between lights and tray surfaces to prevent overheating.
- Use trays made of non-combustible materials like steel or aluminum for added safety.

Design Tips

- Ladder trays create an industrial aesthetic with visible light sources.
- Perforated trays allow creative light patterns through the holes.
- Solid trays provide a clean, modern look with uniform illumination. By selecting the appropriate tray type, mounting method, and lighting components, a cable tray can be effectively transformed into a functional and visually appealing light box while maintaining safety and accessibility for maintenance .

Article Content

Amazon : Cable Tray

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Cable tray manual

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Cable tray, Raceway, Junction Box, Suspender, Led Trunking

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