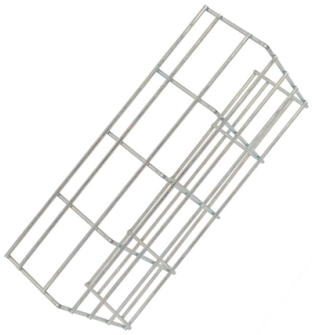
SolidWorks Spectral Distribution Box



Overview

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Key Takeaways

A SolidWorks Spectral Distribution Box can be designed using sheet metal tools for 3D modeling and managed electrically with the Distribute Terminal tool for precise circuit mapping.3D Modeling of Distribution Boxes

SolidWorks allows you to create distribution boxes using the sheet metal plugin, which is ideal for designing enclosures that house electrical components. These models can include features such as flanges, bends, and cutouts for cable glands or connectors. Several pre-made 3D models are available for download, including standard and non-standard sizes, such as a 1700x700x370 mm certified distribution box with editable parameters for learning and prototyping purposes . Other models include smaller electrical distribution boxes suitable for power distribution or mail distribution applications . These models are typically provided in SLDPRT (part) and SLDASM (assembly) formats, allowing full customization in SolidWorks.

Electrical Design and Terminal Management

For electrical schematics, SolidWorks provides the Distribute Terminal tool, which simplifies the arrangement of terminals and circuits within a distribution box. This tool allows you to:

- Link symbols to specific circuits and pins for accurate schematic representation.
- Distribute a single circuit across multiple terminal symbols.

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• Dynamically select circuits and terminals while adding new terminal strips.

• Change the mapping between symbol connection points and component circuit terminals.

• Manage partially used circuits and switch component connections efficiently . This functionality ensures that both the physical design of the box and the electrical connections are accurately represented, improving design accuracy and reducing errors in complex electrical systems.
Practical Applications
• Electrical enclosures for power distribution, control panels, or prototyping boards.

• Sheet metal fabrication learning and practice using editable SolidWorks models.

• Terminal management in electrical schematics for industrial or laboratory setups.

• Customizable designs for specific project requirements, including cable entry points, mounting brackets, and internal component layouts. By combining SolidWorks sheet metal modeling with the Distribute Terminal tool, engineers can create fully functional and visually accurate distribution boxes suitable for both mechanical fabrication and electrical design.

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This command is enabled when two terminals are selected. You can switch component connections between different circuits. The

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