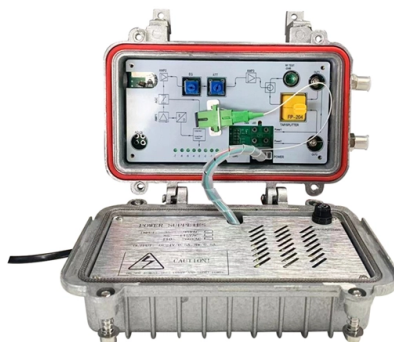


What are the methods for fixing mesh cable trays



Overview

Four different mesh cable tray types are available, depending on the requirements, area of application and cable quantity.

Key Takeaways

Fixing a mesh cable tray involves proper mounting, securing with brackets, cutting or bending as needed, and using accessories to maintain cable organization and structural integrity.

Mounting the Tray

Mesh cable trays are typically mounted using ceiling brackets and threaded rods. Adjustable brackets like TFP-A or TFP2 can be attached to ceiling profiles or corrugated sheets, and then connected to threaded rods (GT-8 or GT-10) to support the tray. Ensure brackets are securely fastened using the provided holes and nuts, and maintain proper spacing—generally every 2 to 3 meters—to prevent sagging.

Cutting and Bending

If the tray needs to be resized or shaped, bolt cutters can be used to make bends, tees, crosses, risers, or reducers directly on-site. The cutting process preserves the protective zinc layer, and rubber caps can be applied to exposed ends to prevent injury and corrosion. The mesh design allows easy creation of bends and branches without compromising structural integrity.

Securing Cables

To prevent tangling and overheating, use internal dividers, collars, or separators within the tray. These accessories help organize cables, maintain airflow, and provide additional rigidity to the tray. For high-current or heavy cables, consider reducing the support interval to 2-2.5 meters and using taller sidewalls to increase load capacity.

Material and Environment Considerations

Choose the tray material based on the environment: stainless steel or galvanized steel for corrosive areas, FRP for chemical facilities, and PVC or aluminum for indoor or light-duty applications. Ensure the tray type and dimensions match the cable quantity and load requirements.

Final Checks

After installation, inspect the tray for proper alignment, secure connections, and adequate support. Verify that bends and branches are smooth, cables are organized, and there is no excessive sag or stress on the tray. Proper installation ensures safety, longevity, and efficient cable management.

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