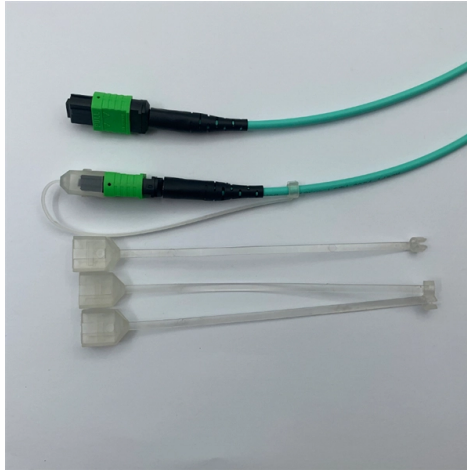


Double-layer cable tray for computer room



Overview

Under Desk Cable Management Tray, Double Layer Under DeskProduct Summary:
Under Desk Cable Management Tray, Double Layer Under Desk Storage Basket -
Sturdy.

Key Takeaways

Double-layer cable trays provide structured, high-density cabling with improved cooling and maintenance efficiency in computer rooms.Overview

Double-layer cable trays consist of two separate layers with space in between, allowing main cables to run in the inner layer while the outer layer can accommodate cooling fluids or additional cabling pathways . This design is particularly useful in high-density server rooms where hundreds or thousands of cables must coexist without obstructing airflow or creating maintenance challenges .

Benefits



1. Enhanced Cooling: The space between layers can be used for cooling liquids or airflow channels, improving heat dissipation up to five times compared to traditional trays . This is critical in hot aisle/cold aisle configurations to prevent equipment overheating and maintain energy efficiency. 2. Organized Cabling: Separating main and branch cables reduces tangling and interference, making it easier to trace, maintain, and expand cabling systems . Proper organization also minimizes electromagnetic interference (EMI) by keeping unshielded cables at safe distances. 3. Load Management: Double-layer trays can support significant cable weight. Aluminum alloy trays typically hold at least 150 kg per meter, while galvanized steel trays can support up to 300 kg per meter, ensuring safety even in dense installations . 4. Future Expansion: Modular design allows for quick addition of new sections, supporting evolving infrastructure without major downtime . Reserved capacity in trays ensures that new cables can be added without overfilling.

Best Practices

- Tray Fill Rate: Keep the fill rate below 30–40% to maintain airflow and prevent overheating . Calculate fill rate as the total cross-sectional area of cables divided by the usable tray area.
- Tray Type Selection: Use ladder trays for heavy backbone cables, perforated trays for medium runs requiring airflow, and wire mesh trays for flexible routing above racks .
- Airflow Considerations: Align trays with hot aisle/cold aisle layouts. Closed trays on cold aisles help direct airflow, while perforated trays on hot aisles allow heat to escape .
- Accessibility: Ensure trays are easily reachable for maintenance. Consider using computer-aided planning tools (BIM) to optimize routing and predict potential issues .
- Separation of Power and Data Cables: Maintain physical separation to reduce EMI and comply with standards .

Implementation Tips

- Plan cable routes carefully to avoid congestion and maintain airflow.
- Use modular blocks for trays to simplify installation and future upgrades.
- Consider underfloor or overhead routing depending on room layout and cooling strategy.
- Regularly inspect and maintain trays to prevent sagging, overheating, or cable damage. Double-layer cable trays are a strategic solution for modern computer rooms, combining high-density cabling, efficient cooling, and easy maintenance while supporting future growth and compliance with data center standards .

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