

RIVO MULTITRADE OPTICAL SYSTEMS

How to arrange the pigtail fiber warehouse



Overview

General fiber preparation instructions are included within this document for inside plant, outside plant, air-blown, and ribbon cable.

Key Takeaways

Organize a pigtail fiber warehouse by classifying pigtails, using proper storage trays and racks, labeling clearly, and maintaining a clean, controlled environment to ensure efficiency and minimize damage.

Classification and Inventory

Start by categorizing fiber pigtails based on key attributes:

- Connector type: LC, SC, ST, FC, MT-RJ, E2000, etc.
 - Fiber type: Single-mode (yellow jacket) or multimode (orange or aqua jacket for OM3/OM4)
 - Fiber count: 6, 12, or 24 strands
 - Length: Short, medium, or long pigtails
- Maintain a digital inventory system to track stock levels, locations, and usage history. This helps prevent shortages and ensures quick retrieval for splicing or deployment.

Storage Solutions

- Use fiber splice trays, racks, or bins to store pigtails without bending or kinking the fibers.

- Keep pigtails coiled loosely to maintain the minimum bend radius and prevent signal loss.
- Store single-mode and multimode fibers separately to avoid confusion and cross-contamination.
- Consider ODFs, fiber terminal boxes, or distribution boxes for organized storage of pre-terminated pigtails .

Labeling and Accessibility

- Clearly label each tray or rack with fiber type, connector type, and quantity.
- Use color-coded jackets or markers to quickly identify fiber types and connector types.
- Arrange frequently used pigtails in easily accessible locations to reduce handling time and minimize the risk of damage .

Environmental Control

- Maintain a clean, dust-free environment to protect the delicate fiber ends.
- Control temperature and humidity to prevent fiber degradation or connector issues.
- Provide lint-free wipes, isopropyl alcohol, and cleaning kits near storage areas for quick cleaning before splicing .

Workflow Optimization

- Design the warehouse layout to minimize movement between storage, splicing, and shipping areas.
- Keep fusion splicers, cleavers, and strippers near the pigtail storage for efficient preparation.
- Implement FIFO (First In, First Out) for pigtail usage to ensure older stock is used first and reduce waste .

Safety and Handling

- Train staff on proper handling techniques to avoid bending, scratching, or contaminating fibers.
- Use protective sleeves or caps on connector ends when not in use.
- Avoid stacking heavy items on pigtail storage trays to prevent crushing or deformation . By following these practices, a pigtail fiber warehouse can maintain high efficiency, reduce signal loss, and ensure reliable deployment for data centers, telecom networks, or FTTH projects.

Article Content

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Written by Ben Hamlitsch, trueCABLE Technical and Product Innovation Manager
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The pigtail is the bridge between the factory-made connector world and the field-spliced cable world. It lets you keep

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