

Optical module clip color



Overview

How to Identify Optical Transceiver Wavelengths by Pull This article provides a professional guide on transceiver pull tab color codes by Why do some optic.

Key Takeaways

Optical module clip colors serve as a visual guide to identify fiber type, wavelength, and transmission distance, simplifying installation and maintenance. Standard Color Coding by Fiber Type and Wavelength

Single-Mode Modules (SMF):

- Blue: 1310nm, medium-distance transmission
- Purple: 1490nm, medium-distance transmission
- Yellow: 1550nm, long-distance transmission (40km+)
- Green: 1550nm, ultra-long-distance transmission (80km+)

Multi-Mode Modules (MMF):

- Black: 850nm, short-distance transmission (under 2km)
- Aqua/Beige: 850nm or 10G SR modules, short-range high-speed applications BiDi (Bidirectional) Modules:

- Use a single fiber for both transmit and receive; pull tab colors indicate the specific wavelength pair for each direction. Exact colors vary by manufacturer and should be verified with the module label. CWDM (Coarse Wavelength Division Multiplexing) Modules:

- Each of the 18 CWDM wavelengths (1270nm–1610nm) has a unique pull tab color for easy identification. Colors are standardized but may slightly vary by vendor, so always cross-check with datasheets.

Practical Considerations

- **Quick Identification:** Pull tab colors allow technicians to rapidly distinguish module types, fiber modes, and transmission distances without removing the module.
- **Verification Required:** While color is a helpful visual cue, it should always be confirmed with the module label or datasheet to avoid mismatched installations.
- **Vendor Variations:** Most manufacturers follow widely accepted color standards, but minor differences exist. Always consult vendor documentation for precise mapping.
- **Operational Efficiency:** Using color coding reduces installation errors, simplifies troubleshooting, and streamlines port mapping in complex networks.

Summary

Optical module clip colors act as a visual language in fiber optic networks, indicating wavelength, fiber type, and transmission distance. Blue, purple, yellow, and green are common for single-mode modules, black for multi-mode, and specialized colors for BiDi and CWDM modules. Always verify with labels or datasheets to ensure correct deployment and network reliability. This system enhances efficiency in data centers, telecom, and enterprise fiber networks. Citations: LINK-PP, Svelol SFP, ETU-Link, Zion Communication

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