

Article Overview

Optical splitters are available in various package types, including ABS modules, mini modules, and bare chip formats, designed to suit different installation environments and split ratios.

Common Package Types

1. **ABS Module Packaging** ABS (Acrylonitrile Butadiene Styrene) modules are widely used for PLC splitters. They are compact, durable, and easy to mount in distribution boxes or enclosures. ABS modules typically support split ratios like 1x8, 1x16, and 1x32 and are compatible with SC/APC or SC/UPC connectors . 2. **Mini Module Packaging** Mini modules are smaller than standard ABS modules, offering space-saving installation for high-density deployments. They are ideal for FTTH networks where multiple splitters need to be installed in a limited space. Mini modules also support common split ratios and connector types, including SC, LC, and FC . 3. **Bare Chip or PLC Chip Packaging** Some PLC splitters are supplied as bare chips without an enclosure. These are typically used in OEM applications or integrated directly into custom network equipment. Bare chips provide maximum flexibility but require careful handling and additional housing for field deployment . 4. **FBT Splitter Packaging** FBT (Fused Biconical Taper) splitters are often packaged in cylindrical or rectangular modules with protective coatings. They are generally lower-cost and suitable for small split ratios like 1:2 or 1:4. FBT modules are less compact than PLC modules but are simpler to manufacture .

Connector and Installation Considerations

- o **Connector Types:** SC, LC, and FC connectors are commonly supported, in both APC and UPC styles .
- o **Mounting Options:** Modules can be installed in wall-mounted boxes, rack-mounted panels, or directly in junction boxes depending on network design.
- o **Environmental Protection:** Enclosed modules provide protection against dust, moisture, and mechanical stress, which is critical for outdoor or high-density indoor deployments.

Summary

Choosing the right optical splitter package depends on split ratio, installation space, connector type, and environmental requirements. PLC splitters are preferred for high split ratios and uniform signal distribution, while FBT splitters are cost-effective for small splits. ABS and mini modules offer ready-to-install solutions, whereas bare chips are suited for custom or integrated applications .

Fiber-optic splitter A fiber-optic splitter, also known as a beam splitter, is based on a quartz substrate of an integrated waveguide



Optical Splitter Package

Fiber optic splitters include PLC type fiber optic splitters and FBT type fiber optic splitters. Available in single mode and multimode

An optical splitter is a crucial passive fiber optic device that splits and combines optical

FIS Optical Splitter Module PLC LC/APC Connector Adapters 1x16 1RU Short LGX Package SKU: Z1PLM1161SLLA Unit of

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The optical splitter is an optical power distribution device that splits one optical signal into multiple optical fiber signals

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Understanding splitter technologies, performance specifications, and deployment options is key to select the fiber optical splitter best

Understand the Package Types of Fiber Optic PLC Splitter Bare Fiber Optical Splitter: This type lacks connectors at the bare fiber

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