

Weight of a pigtail-type beam splitter



Article Overview

A typical pigtail-type fiber optic beam splitter weighs approximately 10-50 grams, depending on packaging and connectors.

Overview

Pigtail-type beam splitters are compact fiber optic devices that split or combine light between fibers, often using polarization-maintaining (PM) or single-mode (SM) fibers. They are commonly housed in rugged stainless steel or miniature plastic packages, which provide mechanical stability and protect the fiber pigtails. The device may include connectors such as FC/PC, FC/APC, or SC/PC, which slightly increase the overall weight.

Factors Affecting Weight

- **Package Material:** Stainless steel housings are heavier than plastic or ceramic enclosures.
- **Connector Type:** Devices with pre-attached connectors (pigtails) weigh more than bare fiber versions.
- **Fiber Length:** Longer pigtails add a few grams to the total weight.
- **Device Type:** Polarization beam splitters or combiners with additional coatings or multi-layer optics may be slightly heavier than simple non-polarizing splitters.

Typical Weight Range

- Miniature inline splitters: ~10-20 grams
- Standard stainless steel packaged splitters: ~20-50 grams...

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A beam splitter or beamsplitter is an optical device that splits a beam of light into a transmitted and a

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These are rugged beamsplitters that are easy to mount and are ideal for beam superposition applications. This type of beamsplitter

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Plate Beamsplitters are a type of Beamsplitter used in many life science, imaging, or laser applications. Plate Beamsplitters are used

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Beam Splitter

Beam-splitting metasurfaces are classified into two types depending on the incident polarization, it is a polarizing beam splitter if the

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Explore the precision, applications, and design principles of beam splitters, essential for advancements in scientific

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Beam Splitters — Abridged Guide

Quick-reference for beam splitter types, Fresnel equations, polarizing designs, and selection workflow. See the Comprehensive

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Optical Beamsplitters | Beamsplitter Selection | Edmund Optics

Beamsplitters are optical components used to split input light into two separate parts. Beamsplitters are common components in

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What are Beam Splitters? A beam splitter (or beamsplitter, power splitter) is an optical device which can split an incident light beam

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How to Select a Beamsplitter

Power separating beamsplitters are used to split beams into two orthogonal paths, and can also combine portions of two different

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Simplex Fiber Optic Pigtails Datasheet | FS

Fiber optic pigtail is an important component commonly used in fiber optic networks. It has fiber connector at one end, and the other

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Full-Fiber Pigtailed Polarization Beam Splitter/Combiner

Full-Fiber Pigtailed Polarization Beam Splitter/Combiner (PBS/PBC Series) The Polarization Beam Combiner/Splitter is a compact

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Polarization Maintaining Components 1550nm Polarization Beam

Description: 1550nm Polarization Beam Splitter, 0.5W power, P grade, PM fiber at port 3, and slow axis aligned to port 1, with 0.9mm

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Polarization Beam Combiner / Splitter

Above specifications are for device without connector. For devices with connector, IL will be 0.3dB higher, ER will be 2dB lower and

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How Does a Beam Splitter Work? Types, Principles & Applications

Learn how beam splitters work, compare cube and plate designs, and explore applications in lasers, microscopy, and interferometry.

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Beamsplitters Selection Guide For Optical Applications | Optometrics

Less common types of beamsplitters include transmission grating and polka dot. In form factor these are very similar to

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beamsplitters selection guide

Beamsplitters Selection Guide Beamsplitters selection Guide A beamsplitter is an optic that splits light into 2 directions. The split ratio

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The Buyer's Guide to Beam Splitters | Blue Ridge Optics

Beam splitters are the unsung heroes of the optics world. These optical components divide incident light into two

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Comprehensive Guide to Fiber Optic Pigtailed | Gezhi Photonics

Dive into the world of fiber optic pigtailed, their types, applications, and splicing methods. Enhance your network's

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How Beamsplitters Work: Types, Mechanisms, and Applications

This article explains the working principles of beamsplitters, detailing how they divide a beam of light into two separate

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Non-Polarizing Beamsplitters, ideal for laser beam manipulation, split light by overall intensity. Polarizing Beamsplitters, often used in

Contact Us

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