

OBD optical splitter type



Article Overview

An optical splitter (OBD) is a passive optical device that divides a single input optical signal into multiple output signals or combines multiple signals into one, primarily used in fiber-optic networks.

Definition and Function

An optical splitter, also known as a beam splitter or fiber optic splitter, is a passive component in optical communication systems that distributes light from one input fiber to multiple output fibers without requiring electrical power. It enables a single fiber infrastructure to serve multiple users, making it essential in Passive Optical Networks (PON) and Fiber-to-the-Home (FTTH) deployments. The device operates based on the physics of light, using waveguides, reflection, refraction, and evanescent field coupling to split or combine optical signals.

Working Principle

The splitter works by guiding light through a network of waveguides or by fusing and tapering fibers together. The incoming optical signal enters the input port, interacts with the internal structure, and is divided among the output ports according to a split ratio (e.g., 1×2, 1×4, 1×32). Key performance metrics include insertion loss, split ratio, and uniformity of output power.

Types of Optical Splitters

- Fused Biconical Taper (FBT) Splitters: Made by fusing and tapering two or more fibers, controlling the splitting ratio through fiber twisting and stretching. FBT splitt...

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explains how optical splitters enable FTTH, their types (FBT vs. PLC), key ratios, and how they integrate with LINK

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Autel Original OBD2 16 Pin OBDII Y Splitter Extension Adapter Cable, 16Pin 1x Male to 2X Female Extension Y Connector, Fits for

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For users who decide to connect multiple devices, choosing the correct splitter type is an important first step. Splitters

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AutoMeter OBD-II Signal Splitters 5323

AutoMeter OBD-II Signal Splitters AutoMeter OBD-II Signal Splitters provide remote mount connections for

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Schematic of OBD sensors and optical microscope. The

Schematic of OBD sensors and optical microscope. The inset shows an optical micrograph of two cantilevers approaching a Si

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