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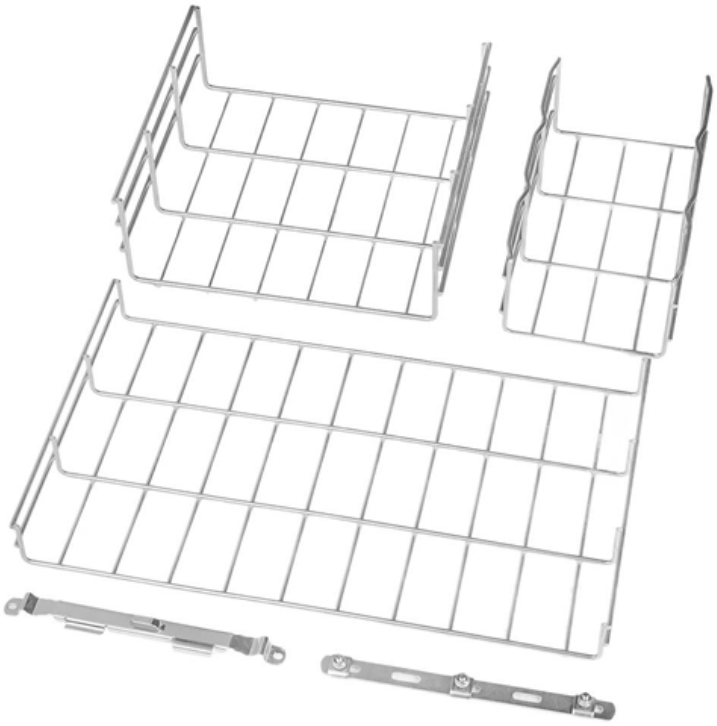
The beam splitter in the PON system is a passive device



Overview

For TDM-PON, a passive optical splitter is used in the optical distribution network. In the upstream direction, each ONU (optical network units) or ONT (optical network terminal) burst transmits for an assigned time-slot (multiplexed in the time domain). By connecting with OLT and ONU, the fiber splitter can achieve split ratios of 1:2, 1:4, 1:8, 1:16, 1:32, and more. It means that the only powered (active) equipment is at the service provider's central unit and on the user's side.

The beam splitter in the PON system is a passive device

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For TDM-PON, a passive optical splitter is used in the optical distribution network. In the upstream direction, each ONU (optical network units) or ONT (optical network terminal) burst transmits for an assigned time-slot (multiplexed in the time domain). In this way, the OLT is receiving signals from only one ONU or ONT at any point in time. In the downstream direction, the OLT (usually) continuously transmits (or may burst transmit). ONUs or ONTs see their own data through the address labels embe

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After data/light in the cable leaves the OLT, it travels to a beam splitter located closer to subscribers. Using passive technology, the splitter

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The splitters are stand-alone, not co-located with other splitters. In this scenario, the splitter is most often located in a closure or pedestal in the outside plant.

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These devices, along with passive optical splitters take care of the downstream and upstream traffic. OLT - The OLT is a device used at the central office of the

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The passive nature of the field components results in substantial cost efficiencies for the service provider. Since the optical splitters require no external power, there is no need for active

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