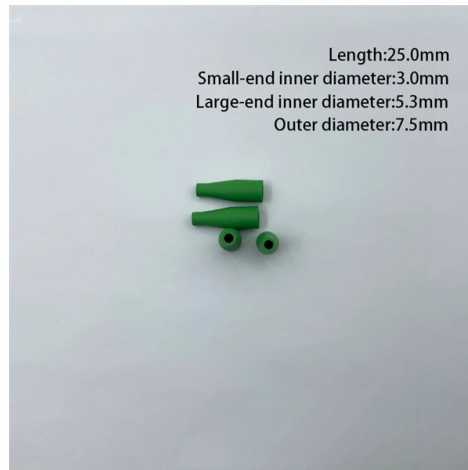


How are ONU optical modules categorized by model



Overview

Depending on transmission rates, optical modules are classified into 100GE, 40GE, 25GE, 10GE, FE, and GE optical modules. Optical modules are encapsulated in different. The optical module serves as a crucial component in optical fiber communication systems, operating at the physical layer, which is the lowest layer in the OSI model. Its primary function is to achieve optoelectronic conversion by converting electrical signals into optical signals and vice versa. These modules are typically installed in Optical Line Terminals (OLTs) at the service provider's central office and Optical Network Units (ONUs) or Optical Network. Optical modules are available in various types to meet diversified requirements. Due to their distinct functions, OLT and ONU modules differ in transmission power, reception sensitivity, and overload optical power: Transmission Power Reception. In the context of POTN (Packet Optical Transport Network) and advanced PON architectures, three form factors— SFP, QSFP, and OSFP —define the standards that connect access, aggregation, and core layers. Optical Network Termination (ONT).

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