

Passive Optical Components are available from Opterna AM, a company with decades of experience in the Broadband industry. With multi-disciplinary design and manufacturing capabilities that cover HFC electronics and systems, fiber optic components, sheet metal and plastics, Opterna AM offers state-of-the-art products for the most demanding customers. All products are carefully engineered for reliability, easy installation and maintenance.

With a history of more than 15 years manufacturing optical components, Opterna AM continues to be a trusted supplier to numerous equipment manufacturers and broadband service providers. These products are manufactured in world-class ISO-9001 production facilities utilizing the latest technology and rigorous quality processes.



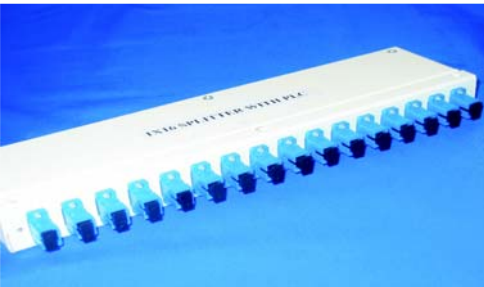
Couplers and WDMs

Opterna AM's couplers and WDMs are designed to operate over a wide range of wavelengths in 1310 and 1550 windows with low loss. Couplers designed to operate at 1490nm are also available for the FTTH market. WDMs are designed to operate in 1310/1550nm wavelengths. WDMs for EDFA applications operate in the 980/1550nm range. These come in 1x2 and 2x2 configurations, with light, medium, or heavy duty packaging and a variety of connector options.



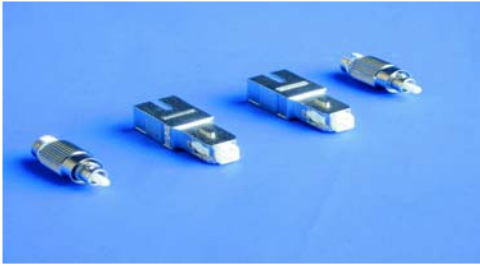
Tree Couplers

Opterna AM's tree couplers are made in configurations up to 2x32 ports. These are packaged in aluminum as well as other enclosures with various connector options. These high performance devices meet stringent uniformity and loss specification requirements. Tree couplers designed to perform in 1490 and 1600 nm bands are also available.



Module Assemblies

Opterna AM's Couplers and WDMs are packaged in custom modules as per customer-specific requirements. These are available in standard 19" rack-mount modules, LGX compatible modules or custom designs for 2xN and 1xN configurations with a variety of connector options.



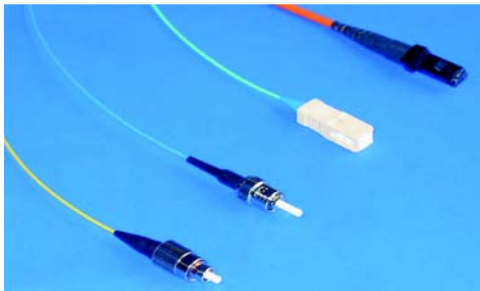
Build Out Attenuators

Opterna AM's Attenuators (BOAs) in a plug-style body can be used directly on the end of a fiber jumper or inserted directly into an adapter. These are available in FC and SC connector styles, with a PC finish and ultra-low return loss.



Variable Optical Attenuators

Opterna AM's variable attenuators are mechanically variable and designed to operate in the wavelength range of 1200-1600 nm. With low insertion loss and back reflection, these are relatively insensitive to changes in temperature. Available in medium and heavy-duty packaging with various connector options



Patchcords and Pigtailed

Opterna AM's fiber optic patchcords and pigtailed are manufactured with a variety of connector ends and polishes. With 100% testing for insertion loss and back reflection, these products have established global reputation for quality, reliability, durability and cost competitiveness. Over 10 million terminations have been shipped from our facilities.



Mode Conditioning Patchcords

Used in Gigabit Ethernet networks, this patchcord allows laser transmitters to operate at gigabit rates over multimode fiber without being unduly limited by Differential Mode Delay (DMD) effects. Designed for 1000BASE-LX transmitters and fully compliant with IEEE 802.3z, these patchcords have permanent offset closure. Available in various connector options.



Attenuated Patchcords

Opterna AM's Attenuated Patchcords combine the functions of an attenuator and a cable assembly. These are compact, multi purpose passive devices designed to operate at 1310 and 1550nm wavelengths. Available with various connector styles.

Opterna AM reserves the right to change product specifications without prior notice.