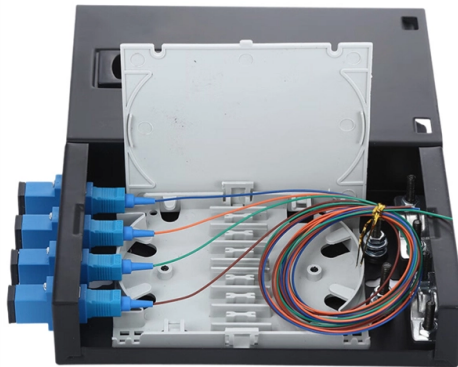


Coupler connection to optical fiber



Overview

Fiber optic couplers can either be passive or active devices. Passive fiber optic couplers are said to be passive as no power is required for operation. They are simple fiber optic components that are used to redirect light waves. Passive fiber optic couplers can either be passive or active devices. Passive fiber optic couplers are said to be passive as no power is required for operation. They are simple fiber optic components that are used to redirect light waves. Passive couplers either use micro-lenses, graded-refractive-index (GRIN) rods and beam splitters, optical mixers, or splitters. Types of fiber optic couplers include splitters, combiners, X-couplers, trees, and stars, which all include single window, dual window, or wideband transmissions. Fiber optic splitters take an optical signal and supply two outputs. They can further be described as either Y-couplers or T-couplers. 1. Y-couplers have equal power distribution, meaning that. When specifying optical couplers you should consider the fiber optic cable, the coupler type, signal wavelength, number of inputs and outputs, as well as insertion loss, splitting ratio, and polarization dependent loss (PDL).



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