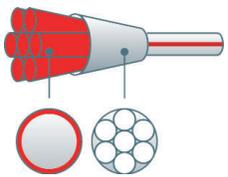
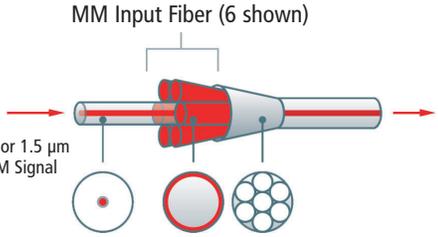
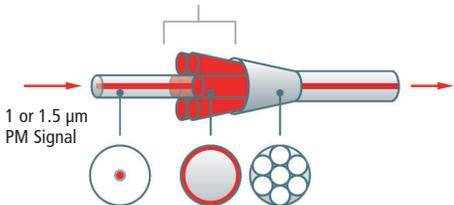


# Power Combiners

Power Combiners are available in all-fiber Multimode, Polarization-Maintaining, or Single-Mode constructions. They are designed for efficient coupling into cladding pumped fibers. Custom designs and value-added Gain Module or Laser Assemblies are also available. See individual variations below:

Product Description	Typical Applications	Features and Benefits
<p><b>Multimode</b></p> <p>Multimode Power combiners couple 7 or 19 multimode high-power sources into cladding pumped fiber.</p> <p>MM Input Fiber (7 shown)</p>  <p>for connection to Broad Area Emitters</p>	<ul style="list-style-type: none"> <li>• High-power fiber lasers for use in the following industries: <ul style="list-style-type: none"> <li>Industrial</li> <li>Military</li> <li>Medical</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Easy splicing</li> <li>• High coupling efficiency</li> <li>• Compatible with pump diodes with multimode input fiber of 0.15 NA or 0.22 NA</li> <li>• Provides scalability</li> </ul>
<p><b>Single-Mode</b></p> <p>Single-Mode Power Combiners couple 6 or 18 multimode high-power sources and 1 single-mode signal source for combined power output or for use with a cladding pumped fiber.</p> <p>MM Input Fiber (6 shown)</p>  <p>for connection to Broad Area Emitters</p>	<ul style="list-style-type: none"> <li>• This "Signal fiber design" is used for applications in the following industries: <ul style="list-style-type: none"> <li>Industrial</li> <li>Military</li> <li>Medical</li> </ul> </li> <li>• A single-mode Power Combiner can be used to construct an amplifier for use in telecommunications</li> <li>• Optimized for 1 μm and 1.5 μm applications</li> </ul>	<ul style="list-style-type: none"> <li>• Compatible with 915 nm and 976 nm pump diodes with multimode pigtail fiber with NA of .15 or .22</li> <li>• Easy splicing</li> <li>• High coupling efficiency</li> <li>• Provides scalability</li> </ul>
<p><b>Polarization-Maintaining</b></p> <p>Polarization-Maintaining Power Combiners couple 6 or 18 multimode high-power sources and 1 polarization-maintaining (PM) source for combined power output or for use with a PM cladding pumped fiber.</p> <p>MM Input Fiber (6 shown)</p>  <p>for connection to Broad Area Emitters</p>	<ul style="list-style-type: none"> <li>• This "Signal fiber design" is used to construct high-power amplifiers requiring signal polarization outputs for use in the following industries: <ul style="list-style-type: none"> <li>Industrial</li> <li>Military</li> <li>Medical</li> <li>Telecommunications</li> </ul> </li> <li>• Optimized for 1 μm and 1.5 μm applications</li> </ul>	<ul style="list-style-type: none"> <li>• All PM design—PM signal input and output</li> <li>• Compatible with 915 nm and 976 nm pump diodes with multimode pigtail fiber with NA of .15 or .22</li> <li>• Easy splicing</li> <li>• High coupling efficiency</li> <li>• Provides scalability</li> </ul>