

Active Fibre Combiner

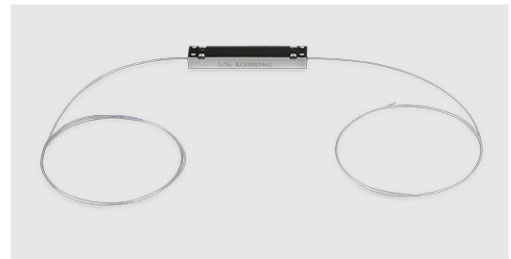
The active fibre combiner is designed for high power EDFA. Excellent optical properties are obtained by the use of unique fusion tapering process. The input port includes two pump channels and one signal channel, and the output port is an active fibre. The fibre type can be customized.

Characteristics

- High conversion efficiency
- Low distortion
- High pump efficiency
- Customized

Applications

- Optical fibre amplifier power coupling



Specifications

Product Type	AMPC-P12-S46X
Product Discription	(2+1)×1 Active Fibre Combiner
Signal Operating wavelength (nm)	1500 - 1600, Typical 1550
Pump Operating wavelength (nm)	800 - 1000
Fibre Type	
Input Pump Fibre	SI 105/125 (0.22)
Input Signal Fibre	DCF 11/125 (0.12/0.46)
Output Fibre	TC1500Y 11/125 (0.12/0.46)
Optical Properties	
Light Conversion Efficiency (%)	> 25
Insertion Loss (dB)	< 0.5 (Typical 0.3)
Return Loss (dB)	≥ 40.0
Max Pump Power per Port (W)	Typical 25
Environmental Properties	
Operating Temperature (°C)	-5 to +70
Relative Humidity (RH%)	5 - 95
Storage Temperature (°C)	-40 to +85
Appearance	
Dimensions (mm)	8×12×70
Fibre Length (m)	1.0
Active Fibre Length (m)	3.8 or Customized