

# Multimode Combiner Specifications

Multimode Input Fibers	7 : 1		19 : 1
Number of input fibers	7	7	19
Numerical aperture	.165	.22	.165
Core diameter	105 ± 3 µm	105 ± 3 µm	105 ± 3 µm
Cladding diameter	125 ± 2.5 µm	125 ± 2.5 µm	125 ± 2.5 µm
Coating outer diameter	250 ± 15 µm	250 ± 15 µm	250 ± 15 µm
Pigtail fiber length	1 meter	1 meter	1 meter
Output Fiber			
Numerical aperture	.45 ± .03	.45 ± .03	.45 ± .03
Cladding diameter	125 ± 2.5 µm	200 ± 2.5 µm	200 ± 2.5 µm
Coating outer diameter	250 ± 15 µm	300 ± 15 µm	300 ± 15 µm
Pigtail fiber length	1 meter	1 meter	1 meter
Performance			
Multimode transmission (*2)	>90%	>90%	>90%
Optical return loss	40 dB	40 dB	40 dB
Maximum total input power (*3)	35 Watts	(*3)	100 Watts
Operating temperature	0 to +70°C	0 to +70°C	0 to +70°C
Compatibility			
Recommended for use with these OFS cladding pumped fibers	Yb 130	Yb 200	Yb 200
Order by Part Number	TFB11A0	TFB2220	TFB4120

(\*2) Tested by multimode input light with 70% and 99% of power confined with NA of 0.09 and 0.15 , respectively.

(\*3) These values are based on testing to date with 5W/leg conditions. Device capability is higher but has not yet been formally tested.