

# Gooch & Housego



## Multimode Power Combiner

G&H's TFB series Power Combiners provide an all-fibre high efficiency means of combining light from several multimode sources into one fibre.

Fabricated using G&H proprietary controlled fusion process the combiner enables high coupling efficiency over a wide wavelength range.

Available in standard 3x1 and 7x1 configurations, G&H power combiners can be fabricated from a range of industry standard multimode fibres allowing ease of splicing to commercially available laser diodes.

Custom fibre and port configurations are available on request.

Please contact the sales team for further information.

### Key Features:

- | All fibre construction
- | High Coupling Efficiency
- | High Power Design
- | Custom configurations available

### Applications:

- | Cladding pumped fibre lasers
- | Medical
- | Industrial
- | Defence

Contact: [sales@goochandhousego.com](mailto:sales@goochandhousego.com)

[www.goochandhousego.com](http://www.goochandhousego.com)

As part of our policy of continuous product improvement we reserve the right to change specifications at any time

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光技術をサポートする

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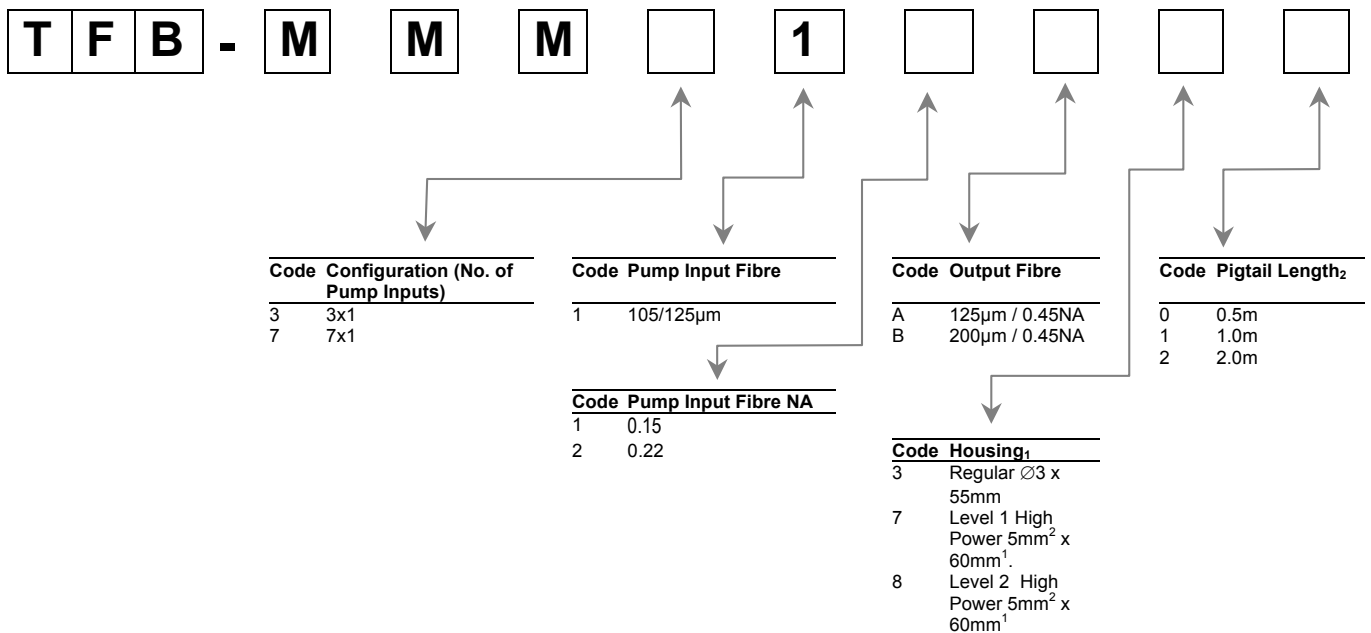
## Optical Specifications<sub>1</sub>

Parameter	Specification		Unit
Pump Input Fibre NA	0.15	0.22	-
Pump Input Wavelength	900 to 1000		nm
Pump (MM) Transmission Efficiency <sub>2</sub>	≥ 90 (Typ > 95)	≥ 90	%
Return Loss/Directivity	> 40		dB
Operating Temperature	-5 to +75		°C
Storage Temperature	-40 to +85		°C

1. All specifications are for operation at room temperature.
2. Transmission efficiency based 7x1 with 125µm / 0.45NA output fibre and 0.5m pigtails. Reported at 975nm as standard.

## Ordering Code Information

**Example: TFB-MMM711A70** (7x1 Tapered Fibre Bundle with seven 105/125µm 0.15NA pump inputs, one 125µm 0.45NA output in high power housing with 0.5m pigtails).



1. Maximum housing lengths. Note- Adequate heat-sinking is required for high power operation. See Heat Sinking notes (PEC 0134) on website or consult Sales Dept.
2. Minimum pigtail lengths.