

Gooch & Housego

PM Coupler



The G&H PM Coupler enables the accurate monitoring and splitting of optical signals in polarisation maintaining fibre. Manufactured using industry-standard PM fibre, the PM Coupler is available in any coupling ratio from 1% to 50%.

Based on G&H's fused fibre technology, the PM Coupler demonstrates very low loss, high power handling and there is no price penalty for adding a second input port. The centre operating wavelength may be chosen from within a wide variety of operating passbands, including 980, 1064, 1310, 14xx, 15xx and 16xx.

In common with all PM components, it is necessary to launch into either the slow or the fast axis to maintain polarisation. For the G&H PM Coupler, specifications are based on slow axis launch, although fast axis versions are also available if requested.

Key Features:

- All PM fibre construction
- Low excess loss
- High power handling
- 980, 1064, C, L and S bands available
- Slow axis operation as standard
- Fast axis operation also available

Applications:

- Power monitoring of PM sources
- Coherent communications
- Fibre gyroscopes
- High power fibre lasers
- Fibre amplifiers

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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

株式会社オプトサイエンス

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Optical Specifications₁

Parameter	Specification							Unit
	9xx	10xx	1310	14xx	15xx	16xx		
Centre Wavelength Range	9xx	10xx	1310	14xx	15xx	16xx		nm
Available Wavelengths ₂	915-999	1000-1099	1310	1425-1499	1500-1599	1600-1650		nm
Coupling Ratio	1/99							%
Coupling Ratio Tolerance	+/- 0.5							%
Extinction Ratio ₃	Grade A	20	20	20	20	20	20	dB
	Grade B	17	17	17	17	17	17	dB
Coupling Ratio	5/95							%
Coupling Ratio Tolerance	+/- 1.5							%
Extinction Ratio ₃	Grade A	20	20	20	20	20	20	dB
	Grade B	17	17	17	17	17	17	dB
Coupling Ratio	10/90							%
Coupling Ratio Tolerance	+/- 3.0							%
Extinction Ratio ₃	Grade A	20	20	20	20	20	20	dB
	Grade B	17	17	17	17	17	17	dB
Coupling Ratio	33/67							%
Coupling Ratio Tolerance	+/- 4.0							%
Extinction Ratio ₃	Grade A	17	17	20	20	20	20	dB
	Grade B	15	15	17	17	17	17	dB
Coupling Ratio	50/50₅							%
Coupling Ratio Tolerance	+/- 5.0							%
Extinction Ratio ₄	Grade A	17	17	20	20	20	20	dB
	Grade B	15	15	17	17	17	17	dB
Excess Loss	Grade A	0.3	0.3	0.3	0.3	0.3	0.3	dB
	Grade B	0.5	0.5	0.5	0.5	0.5	0.5	dB
Return Loss/Directivity	50							dB
Pigtail Tensile Load	5							N
Operating Temperature	-5 to +75 ₁							°C
Storage Temperature	-40 to +85							°C
Fibre Type	Polarisation maintaining fibre (industry-standard profile)							

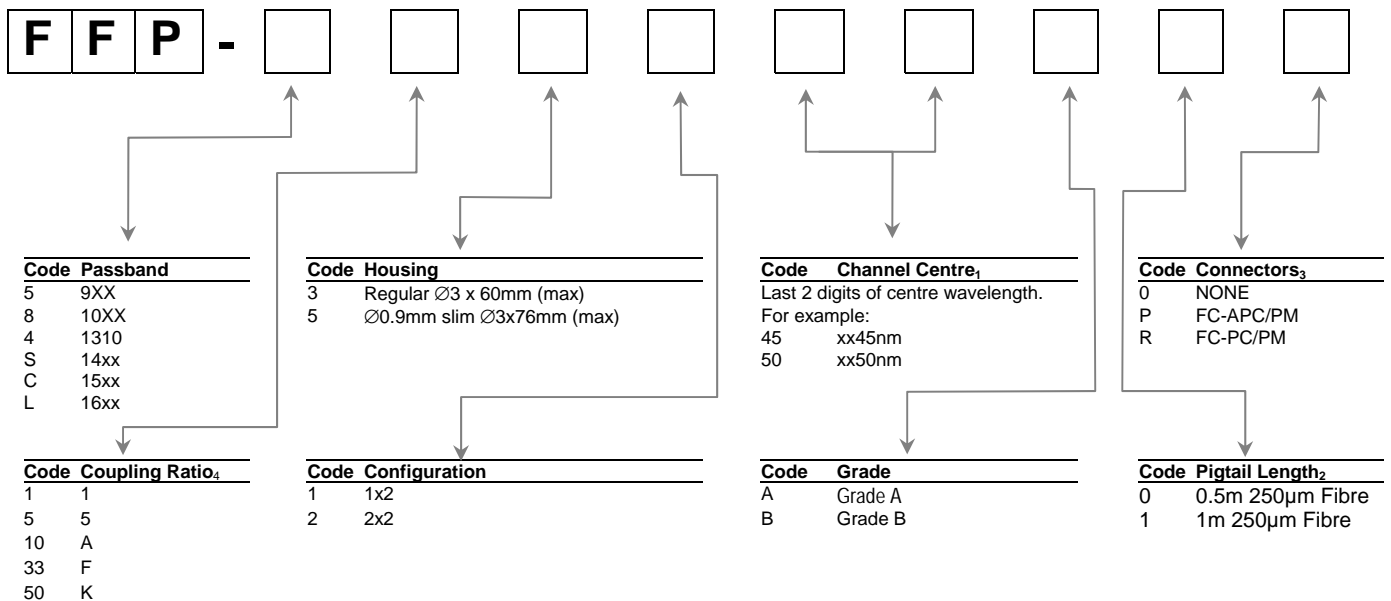
1. All specifications are for operation at room temperature.
2. The centre wavelength may be selected from within the available wavelength ranges supplied.
3. Defined for signal path P1-P2.
4. Defined for both signal path P1-P2 and tap path P1-P3.
5. Preliminary specifications.

Configuration



Ordering Code Information

Example: FFP-CK3250A10 (C band, PM Coupler, 50/50 coupling ratio, regular housing, 2x2, channel centre = 1550nm, grade A, 1m pigtail, no connector)



1. Channel centre must be within the wavelength ranges shown in the Optical Specifications table.
2. Minimum pigtail length. Other pigtail lengths are available on request.
3. Optical specifications in specification table do not include connector loss. Other connectors available on request.
4. Other coupling ratios available on request.

PM Products are manufactured using 250µm PANDA PM fibre, 400µm PANDA PM fibre available at wavelengths higher than 1400nm.