



flawless fusion with infinite possibilities

SIFAM
FIBRE OPTICS

PM Coupler



The SIFAM 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 SIFAM'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 SIFAM 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
- 1x2 and 2x2 versions at same price
- 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

Configuration:



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Optical Specifications₁

Parameter	Specification							Unit
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	
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.

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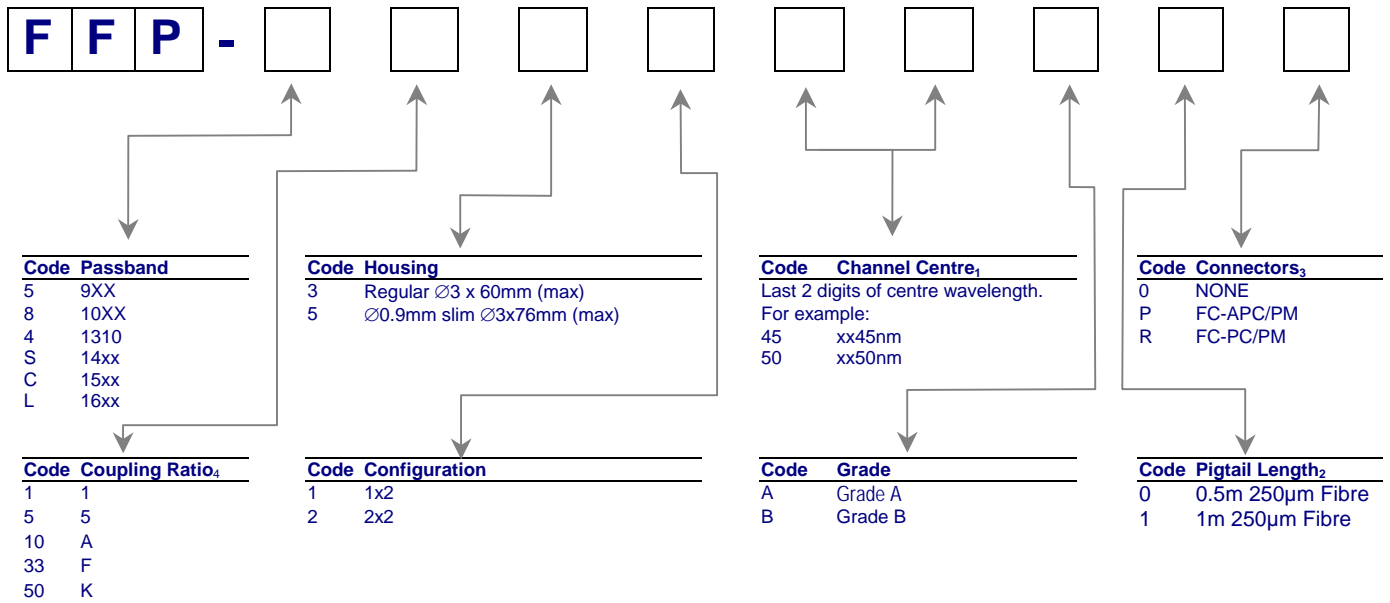


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Ordering Code Information

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.

If you require any further information including technical and qualification data about these or any other SIFAM Fibre Optics components, please contact the SIFAM Fibre Optics Team.

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