



flawless fusion with infinite possibilities

SIFAM
F I B R E O P T I C S

PM Combiner



The SIFAM PM Combiner enables the efficient combination of two orthogonally polarised sources of light such that they are output through the same, single fibre output.

In optical amplifiers this provides a doubling of pump power whilst ensuring pump redundancy should a pump failure occur.

Applications include high power optical amplifiers and undersea systems. All ports consist of polarisation maintaining fibre.

Key Features:

- Low insertion loss
- High power handling
- 9xx, 10xx, 14xx and 15xx variants

Applications:

- Erbium doped fibre amplifiers (EDFAs)
- Raman amplifiers
- Undersea systems
- Coherent optical communications

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Certificate No. 0962231

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Optical Specifications

Parameter	9xx	10xx	14xx	15xx	16xx
Range of available centre wavelengths _{1,2}	915-999nm	1000-1099nm	1400 – 1499nm	1500-1599nm	1600-1650nm
Insertion Loss (fast axis)₃					
Grade M	Max	0.40dB	0.40dB	0.40dB	0.50dB
Grade W	Max	0.60dB	0.60dB	0.60dB	0.70dB
Housing Option		3	3	3	3
Dimensions (ϕ x L) for 1x2 and 2x2	3.0 x 71mm				
Insertion Loss (slow axis)₃					
Grade M	Max				0.35dB
Grade W	Max				0.40dB
Return Loss / Directivity	Min				50dB
TDL	Typ				0.15dB
Pigtail tensile load	Max				5N
Optical power handling	Max				4W
Fibre type	All ports PM fibre				
Pigtail	Primary coated fibre				
Operating temperature range	-5 to 75°C				
Storage temperature range	-40 to 85°C				

1. The centre wavelength may be selected from within the operating wavelength ranges supplied.
2. Other wavelengths are available. Please contact the sales office.
3. Insertion loss at centre wavelength (not including TDL or connector losses).

Configuration



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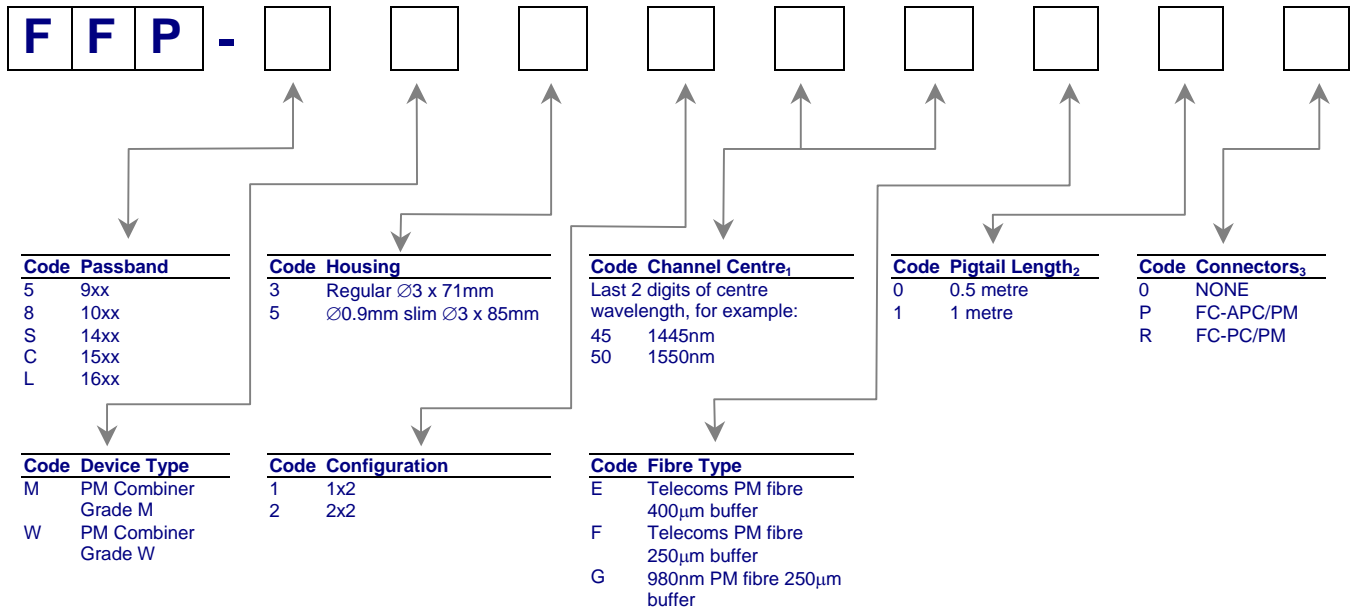


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Ordering Code Information

Example: FFP-SM3245F10 (PM Combiner, Grade M, regular housing, 2x2, channel centre = 1445nm, telecoms PM fibre 250µm buffer, 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. Insertion loss in specification table does not include connector loss. Other connectors 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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