



flawless fusion with infinite possibilities

SIFAM
FIBRE OPTICS



Duplexing WDM 1310/1550nm and 1625nm

The Duplexing WDM enables the low loss combining or splitting of a pair of wavelengths. 1310nm/C band or 1310nm/L band components are used to double network bandwidth, whilst the 1310/1625nm component is used to add or drop a supervisory wavelength from a system.

SIFAM proprietary manufacturing technology provides uniquely low excess loss and wavelength dependence, along with low polarisation and temperature dependence for all ports.

In addition to the standard wavelengths shown, other combinations such as 1550/1625nm are available. Please contact us with your specific requirements.

Key Features:

- Ultra-low typical <0.05dB excess loss
- Wide range of regular parts available
- High power handling

Applications:

- Optical Networking
- Two-channel WDM
- Supervisory wavelength add/drop

Compliance:

- Telcordia GR-1221

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As part of our policy of continuous product improvement we reserve the right to change specifications at any time
PEC0112 Rev 2

Optical Specifications

Device Type	Grade	Available Housing Option	Insertion Loss (dB) ₁	WDL (dB) ₂	PDL (dB) ₃	TDL (dB) ₄	Isolation (dB)
1310 - C band	P	2,3,4,5,6	0.30	0.20	0.10	0.10	15
	A		0.50	0.30	0.10	0.10	14
1310 - L band	P	3,4,5,6	0.30	0.20	0.10	0.10	15
	A		0.50	0.30	0.10	0.10	14
1310 - 1625nm	P	3,4,5,6	0.30	0.20	0.10	0.10	15
	A		0.50	0.30	0.10	0.10	14

1. Insertion loss over operating wavelength range (not including PDL, TDL or connector losses)
2. Change in insertion loss over the operating wavelength range
3. Change in insertion loss over all input polarisation states at band centre wavelength
4. Change in insertion loss from -5 to 75°C

Parameter	Specification	Unit	
Operating Wavelength Range	1310nm	1290-1330	nm
	C band	1528-1563	nm
	L band	1570-1605	nm
	1625nm	1610-1640	nm
Return Loss/Directivity ₁	55	dB	
Pigtail Tensile Load	5	N	
Optical power handling	4	W	
Operating / Storage Temperature Range ₂	-40 to +75 / -40 to +85	°C	
Environmental Qualification	Telcordia GR-1221		

1. Measured reference port P3 input for longer wavelength, P2 input for shorter wavelength and P1 input for both wavelengths.
2. For connectorised component, operating temperature range is -5 to +75°C.

Housing Option

Housing	Description	Dimensions (mm)	Pigtail
2	Miniature	3.0 (Ø) x 50 (L)	Primary-coated fibre
3	Regular	3.0 (Ø) x 55 (L)	Primary-coated fibre
4	Ø 0.9 mm slim	3.0 (Ø) x 65 (L)	Ø 0.9 mm loose-tube
5	Ø 0.9 mm semi-ruggedised	5.0 (Ø) x 80 (L) max.	Ø 0.9 mm loose-tube
6	Ø 3.0 mm fully-ruggedised	80 (L) x 10 (W) x 8 (H)	Ø 3.0 mm fan-out sleeving

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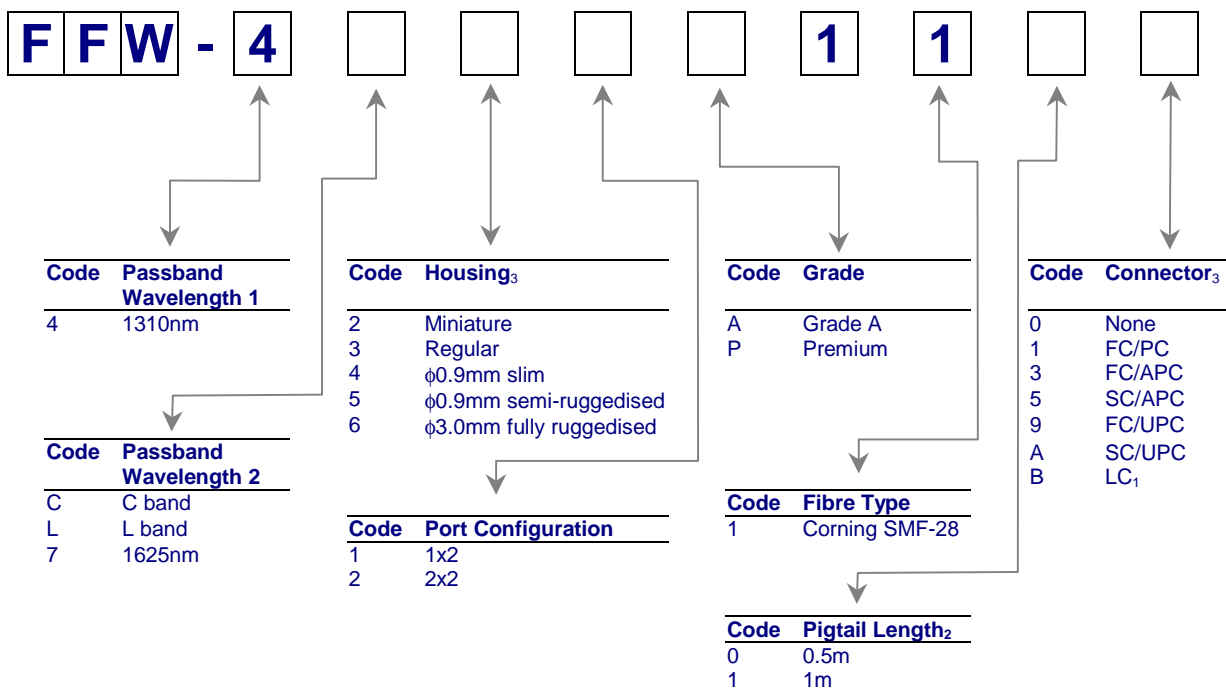
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Configuration



Ordering Code Information

Sample: FFW-4L31P1110 (Fused Fibre WDM, 1310nm, L band, regular housing, 1x2, Premium grade, Corning SMF-28 fibre, 1m pigtail, no connector)



1. Not available for housing option 6.
 2. Minimum pigtail length. Further pigtail lengths available on request. Where connectorised, pigtail length is to connector end face.
 3. Connectors may be fitted to housing types 4, 5 and 6. For connectorisation of housing types 2 and 3 please contact the sales office.

