



Utilising its core competencies in the manufacturing and cabling of optical fibre, Prysmian produces optical fibre units EPFU (Enhanced Performance Fibre Units) specifically engineered for Blown Fibre applications. The fibres are contained within a soft inner acrylate layer which cushions the fibres, an outer harder layer which protects the fibre from damage and a low friction layer that assists in improving blowing distance. Sirocco units can be supplied in a range of SingleMode and MultiMode fibre types

Datasheet Ref.

SE001 04

💿 sirocco

#### 2 Fibre Unit

Diameter	1.0 mm					
Weight	0.8 g/m					
Break out	2 minutes (typical)					
Blow distance	1000m (typical at 10 Bar)					
Fibres	Two + ripcord					
Fibre colours	Blue and Orange					
Packaging	Fibre rosette into pan					
Max length	6000m					
Fibre types	Singlemode; G.652.B, G.652.D, G.657.A1, G.657.A2. Multimode; OM1, OM2, OM3 and OM4					



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# 4 Fibre Unit

Diameter	1.0 mm				
Weight	0.8 g/m				
Break out	3 minutes (typical)				
Blow distance 1000m (typical at 10 Bar)					
Fibres	Four				
Fibre colours	Blue, orange, green and red				
Packaging	Fibre rosette into pan				
Max length	6000m				
Fibre types	Singlemode; G.652.B, G.652.D, G.657.A1, G.657.A2. Multimode; OM1, OM2, OM3 and OM4				

# 6 Fibre Unit

Diameter	1.1 mm				
Weight	0.95 g/m				
Break out	4 minutes (typical)				
Blow distance	800m (typical at 10 Bar)				
Fibres	Six				
Fibre colours	Blue, orange, green, red, grey and yellow				
Packaging	Fibre rosette into pan				
Max length	4000m				
Fibre types	Singlemode; G.652.B, G.652.D, G.657.A1, G.657.A2. Multimode; OM1,OM2, OM3 and OM4				





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# 8 Fibre Unit

Diameter	1.4 mm			
Weight	1.5 g/m			
Break out	5 minutes (typical)			
Blow distance	800m (typical at 10 Bar)			
Fibres	Eight			
Fibre colours	Blue, orange, green, red, grey, yellow, violet and brown			
Packaging	Fibre rosette into pan			
Max length	6000m			
Fibre types	Singlemode; G.652.B, G.652.D, G.657.A1, G.657.A2. Multimode; OM1,OM2, OM3 and OM4			

#### **12 Fibre Unit**

Diameter	1.4 mm				
Weight	1.7 g/m				
Break out	5 minutes (typical)				
Blow distance	800m (typical at 10 Bar)				
Fibres	Twelve				
Fibre colours	Blue, orange, green, red, yellow, grey, violet, brown, black, white, pink and turquoise				
Packaging	Fibre rosette into pan				
Max length	6000m				
Fibre types	Singlemode; G.652.B, G.652.D, G.657.A1, G.657.A2. Multimode; OM1, OM2, OM3 and OM4				





# Fibre data sheets

EPFU Standard Product Range Details & Technical Parameters EPFU SingleMode G.652.B Fibre Specification EPFU G.652.D Fibre Specification EPFU 62/125 Multimode (OM1) Fibre Specification EPFU 50/125 Multimode (OM2) Fibre Specification EPFU 50/125 Multimode (OM3) Fibre Specification EPFU 50/125 Multimode (OM4) Fibre Specification EPFU Bend insensitive G.657.A1 Fibre Specification EPFU Bend insensitive G.657.A2 Fibre Specification EPFU Hybrid Product Range Details & Technical Parameters EPEU Environmentally Friendly Pans	
EPFU Environmentally Friendly Pans	

Data sheet SE001 Data sheet SE002 Data sheet SE003 Data sheet SE004 Data sheet SE005 Data sheet SE006 Data sheet SE007 Data sheet SE008 Data sheet SE009 Data sheet SE010 Data sheet SA005

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# **Detailed Test Specification**

Mechanical Properties	Test method	Test Standard	Test conditions	Performance		
Tensile strength	IEC 60794-1-2 E1	IEC 60794-5-20 BT CW1574	1W N x (9.81 x mass of 1km)	Pass Maximum fibre strain ≤ 0.4% Residual fibre strain ≤ 0.05% Note 1		
Crush	IEC 60794-1-2 E3	IEC 60794-5-20 BT CW1574	100N for 60 seconds	Pass Note 1 & 2		
Bend	IEC 60794-1-2 E11	IEC 60794-5-20 BT CW 1574	4 turns, 3 cycles 3 turns, 5 cycles Ø40mm (2f and 4f) Ø60mm ( 6f, 8f & 12f )	Pass Note 1 and 2 Singlemode ≤0.15dB/km Multimode ≤ 0.30dB/km		
Environmental						
Temperature performance	IEC 60794-1-2 F1	IEC 60794-5-20	-15 to +60. 2 cycles -40 to +70. 2 cycles	Pass Note 2 Singlemode ≤0.15dB/km Multimode ≤0.30dB/km		
		BT CW1574 -10 to +65. 3 cycles		Pass Note 2,3 and 4		
Cold test	BS EN 60068-2-1	BT CW1574	Pass ≤0.5dB/km			
Condensation test	IEC 60068-2-38	BT CW1574	-10 °C to +65 °C at 93% RH 10 cycles 24 hour dwells	Pass Note 3 & 4		
Water immersion	IEC 60793-1-53	IEC 60794-5-20	30days, room temp	Pass Singlemode ≤0.05dB/km Multimode ≤0.20dB/km		
	BT CW1500 pt 4	BT CW1574	20 °C +/- 2 °C 2000 hours	Pass Note 3 & 4		
Static Bend	BT CW1500 pt 4	BT CW1574	1000hours, +60°C 40mm (2f, 4f & 6f ) 60mm ( 8f & 12F)	Pass Note 1		
Fibre break out from unit /buffer removal	BT CW1500 pt 4	IEC 60794-5-20 BT CW1574	0 °C, 20 °C, 40 °C 2m samples	2f: ≤2 minutes 4f: ≤3 minutes 6f: ≤4 minutes 8f: ≤5 minutes 12f: ≤5 minutes		

Note 1 Note 2 No significant damage.

No change in attenuation after test

Note 3 Pass for Singlemode = +/- 0.07dB/km at 1310 nm and 1550 nm Note 4

Pass for Multimode = +/- 0.25 dB/km at 850 nm and 1300 nm

#### Pan dimensions and weights

Length	2 Fibre		4 Fibre		6 Fibre		8 Fibre		12 Fibre	
	Pan	Kg	Pan	Kg	Pan	Kg	Pan	Kg	Pan	Kg
500m	S	3.0	S	3.1	S	3.2	S	3.3	S	3.4
1000m	S	3.3	S	3.3	S	3.5	S	4.0	S	4.2
2000m	S	4.1	S	4.1	S	4.5	D	6.4	D	6.8
3000m	D	6.1	D	6.1	D	6.2	D	7.9	D	8.5
4000m	D	6.9	D	6.9	D	7.1	D	9.4	DD	11.7
6000m	D	8.5	D	8.5	N/A	N/A	DD	11.7	DD	12.5
Pan codesDimensionShallow (S)L = 615 x VEnvironmentally Friendly Deep (D)L = 615 x VEnvironmentally Friendly Double Deep (DD)L = 513 x V					W = 530 x W = 530 x	H = 251				

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