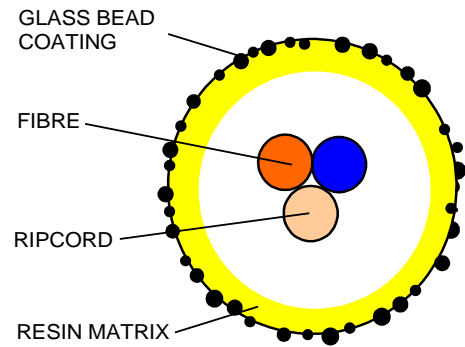


**EPFU standard product range details and technical parameters**

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.

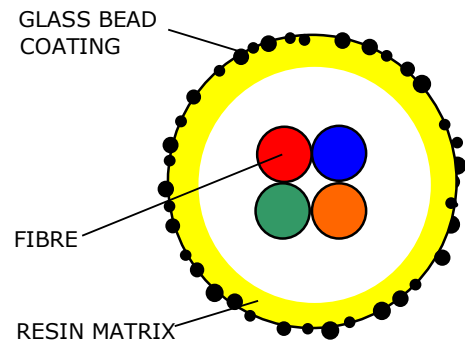
**2 Fibre Unit**

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, OM4 and OM5.



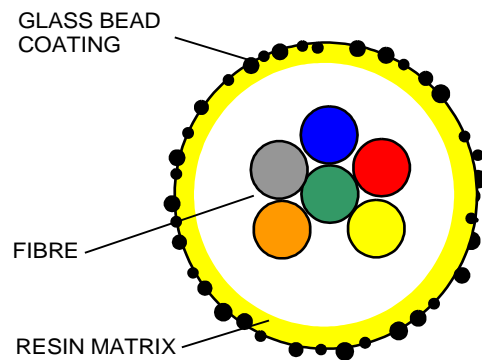
**4 Fibre Unit**

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, OM4 and OM5.



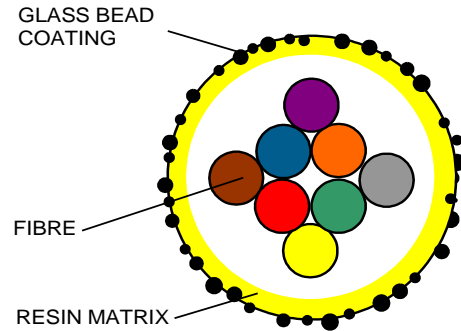
**6 Fibre Unit**

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, OM4 and OM5.



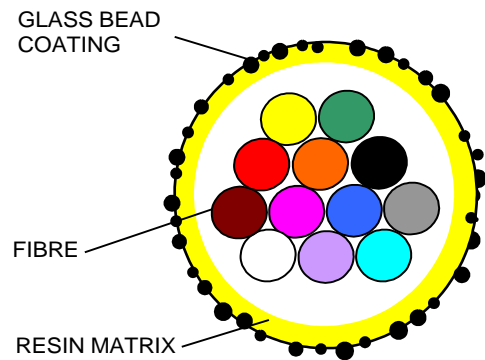
**8 Fibre Unit**

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, OM4, OM5.



**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, OM4 and OM5.



**Fibre data sheets**

- 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 50/125 Multimode (OM5) 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
- EPFU Environmentally Friendly Pans

- Data sheet SE002
- Data sheet SE003
- Data sheet SE004
- Data sheet SE005
- Data sheet SE006
- Data sheet SE007
- to be confirmed
- Data sheet SE008
- Data sheet SE009
- Data sheet SE010
- Data sheet SA005

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es and values without tolerances are reference values. Specifications are for product as supplied by Prysmian: any modification or alteration towards of product may give different result.

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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	1W N x (9.81 x mass of 1km)	Pass Maximum fibre strain $\leq 0.4\%$ Residual fibre strain $\leq 0.05\%$ Note 1
Crush	IEC 60794-1-2 E3	IEC 60794-5-20	100N for 60 seconds	Pass Note 1 & 2
Bend	IEC 60794-1-2 E11	IEC 60794-5-20	4 turns, 3 cycles 3 turns, 5 cycles $\varnothing 40\text{mm}$ (2f and 4f) $\varnothing 60\text{mm}$ (6f, 8f & 12f)	Pass Note 1 and 2 Singlemode $\leq 0.15\text{dB/km}$ Multimode $\leq 0.30\text{dB/km}$
<b>Environmental</b>				
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 $\leq 0.15\text{dB/km}$ Multimode $\leq 0.30\text{dB/km}$
			-10 to +65. 3 cycles	Pass Note 2,3 and 4
Cold test	BS EN 60068-2-1		-20 °C 96 hours	Pass $\leq 0.5\text{dB/km}$
Condensation test	IEC 60068-2-38		-10 °C to +65 °C at 93% RH 10 cycles 24 hours dwells	Pass Note 3 & 4
Water immersion	IEC 60793-1-53	IEC 60794-5-20	30days, room temp	Pass Singlemode $\leq 0.05\text{dB/km}$ Multimode $\leq 0.20\text{dB/km}$
			20 °C +/- 2 °C 2000 hours	Pass Note 3 & 4
Static Bend	QA5061		1000hours, +60°C 40mm (2f, 4f & 6f) 60mm (8f & 12f)	Pass Note 1
Fibre break out from unit /buffer removal	QA5058	IEC 60794-5-20	0 °C, 20 °C, 40 °C 2m samples	2f: $\leq 2$ minutes 4f: $\leq 3$ minutes 6f: $\leq 4$ minutes 8f: $\leq 5$ minutes 12f: $\leq 5$ minutes

Note 1 No significant damage.

Note 2 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

Pan codes  
Shallow (S)  
Environmentally Friendly Deep (D)  
Environmentally Friendly Double Deep (DD)

Dimensions (mm)  
L = 615 x W = 530 x H = 155  
L = 615 x W = 530 x H = 251  
L = 513 x W = 513 x H = 390

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