

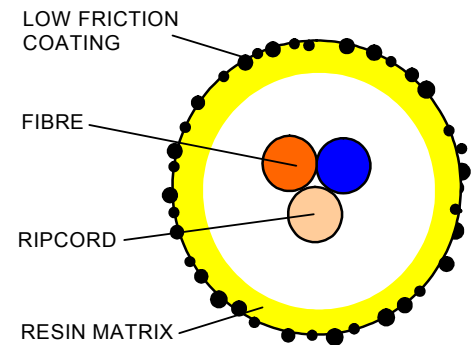
## EPFU STANDARD PRODUCT RANGE DETAILS AND TECHNICAL PARAMETERS

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, which is typically 1000 meter's at 10 Bar.

Sirocco units can be supplied in a range of fibre types including SingleMode G.652.B, Low water peak MagniLight™ G.652.D, CasaLight™ G.657.A, CasaLight Plus™ G.657.B, Multimode 62.5/125 OM1 and 50/125 OM2, OM3 and OM3E (enhanced). The resin is colour coded to indicate the fibre within (singlemode yellow, 50/125 turquoise and 62.5/125 red) except for the 12 fibre unit which has an alternative grey low friction coating.

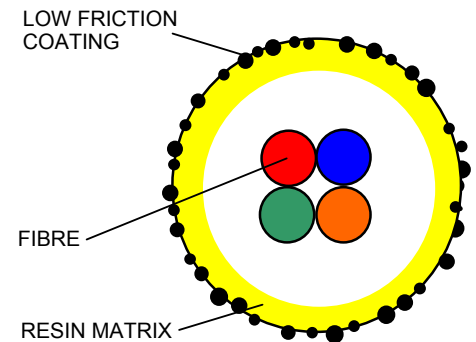
### 2 Fibre Unit

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	G.652.B, G.652.D, G.657.A, G.657.B OM1, OM2, OM3 and OM3E



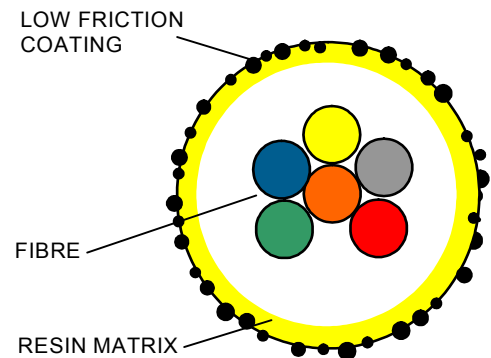
### 4 Fibre Unit

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	G.652.B, G.652.D, G.657.A, G.657.B OM1, OM2, OM3 and OM3E



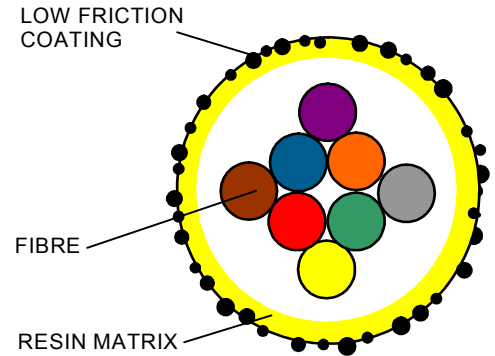
### 6 Fibre Unit

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	G.652.B, G.652.D, G.657.A, G.657.B OM1, OM2, OM3 and OM3E



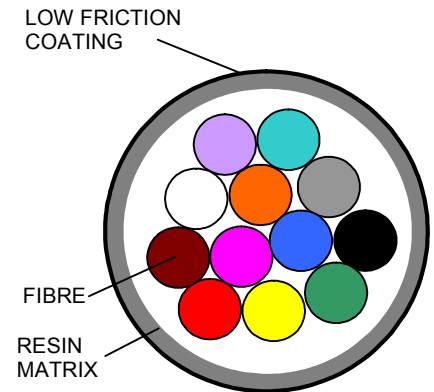
### 8 Fibre Unit

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	4000m
Fibre types	G.652.B, G.652.D, G.657.A, G.657.B OM1, OM2, OM3 and OM3E



### 12 Fibre Unit

Diameter	1.3 mm
Weight	1.64 g/m
Break out	8 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	G.652.B, G.652.D, G.657.A, G.657.B OM1, OM2, OM3 and OM3E



### Fibre data sheets

EPFU Standard Product Range Details & Technical Parameters  
 EPFU SingleMode G.652.B Fibre Specification  
 EPFU MagniLight™ G.652.D Fibre Specification  
 EPFU 62/125 Multimode (OM1) Fibre Specification  
 EPFU 50/125 Multimode (OM2) Fibre Specification  
 EPFU OM3 50/125 Multimode Fibre Specification  
 EPFU OM3E (enhanced) 50/125 Multimode Fibre Specification  
 EPFU CasaLight™ bend insensitive G.657.A Fibre Specification  
 EPFU CasaLight Plus™ bend insensitive G.657.B Fibre Specification  
 EPFU Hybrid Product Range Details & Technical Parameters

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

### Detailed Test Specification

Mechanical Properties	International standard	Test conditions	Performance
Tensile strength	IEC 60794-1-1 E1	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	100N for 60 seconds	Pass Note 1 & 2
Bend (5 turns, 3 cycles)	IEC 60794-1-2 E11	Ø40mm (2f, 4f & 6f ) Ø60mm ( 8f & 12f )	Pass Note 1 & 2
Aged bend	BT CW1500 pt 4	40mm (2f, 4f & 6f ) 60mm ( 8f & 12F)	Pass Note 1
<b>Environmental</b>			
Temperature performance	IEC 60794-1-2 F1	Singlemode -30 °C to +60 °C 3 cycles Multimode -10 °C to +60 °C 3 cycles	Pass Notes 2,3 & 4
Cold test	BS EN 60068-2-1 CW1574	-20 °C 96 hours	Pass Notes 2,3 & 4
Condensation test	IEC 60068-2-38 CW1574	-10 °C to +65 °C at 93% RH 10 cycles 24 hour dwells	Pass Notes 2,3 & 4
Water immersion	BT CW1500 pt 4	20 °C +/- 5 °C 2000 hours	Pass Note 3 & 4
Fibre break out from unit	BT CW1500 pt 4	0 °C, 20 °C, 40 °C 2m samples	2f: ≤2 minutes 4f: ≤3 minutes 6f: ≤4 minutes 8f: ≤5 minutes 12f: ≤8 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

Length	2 Fibre		4 Fibre		6 Fibre		8 Fibre		12 Fibre	
	Pan	Kg	Pan	Kg	Pan	Kg	Pan	Kg	Pan	Kg
1000m	S	3.3	S	3.3	S	3.5	S	4.0	S	4.1
2000m	S	4.1	S	4.1	S	4.5	D	5.5	S	7.0
4000m	D	6.9	D	6.9	D	7.1	D	9.7	D	9.8
6000m	D	8.5	D	8.5	N/A	N/A	N/A	N/A	DD	15.8

Pan codes	Dimensions (mm)
Shallow (S)	L = 615 x W = 530 x H = 155
Deep (D)	L = 615 x W = 530 x H = 251
Double Deep (DD)	L = 615 x W = 530 x H = 392

TJ 22/09/2008

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