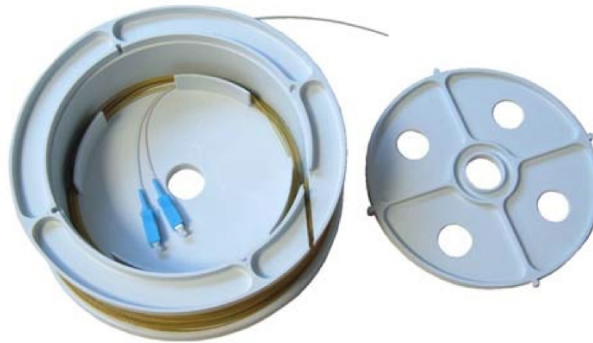


Pre-connectorised EPFU (Blown Fibre Unit)

Prysmian Part Number: See Table Below



Surface modified fibre unit for blown fibre applications with factory-terminated connectors at one end.

Product description

In certain applications, it may be desirable to minimise field termination of Sirocco blown fibre. In residential applications, such as when introducing FTTH (Fibre-to-the-Home) networks, it may be recommended to minimise time spent / disruption in customer premises. Prysmian's world-leading Sirocco blown fibre system now incorporates a pre-connectorised solution particularly suitable for FTTH applications

Currently available using a 2-fibre Singlemode EPFU (Enhanced Performance Fibre Unit) stored on a plastic reel with either 1 or 2 x SCU connectors on the inner end. The unit will be blown in using a suitable blowing head, with the reel located on a spindle (see SA003 for EPFU Reel Dispenser). A range of standard lengths of pre-terminated EPFU are available, as shown below, to cater for link length variations from customer premise to hub or underground joint.

For EPFU technical information please see the appropriate data sheets (SE001 to SE007).

Product details

EPFU fibre type / count	Singlemode 2 Fibre
Connector type	SCU
Connector insertion loss	≤ 0.3 dB
Connector return	≥ 45 dB
Packaging	Boxed Plastic Reel

Part Numbers

1 fibre terminated	2 fibres terminated	Length (m)
EPFU_SM1FSCU_50	EPFU_SM2FSCU_50	50
EPFU_SM1FSCU_100	EPFU_SM2FSCU_100	100
EPFU_SM1FSCU_150	EPFU_SM1FSCU_150	150
EPFU_SM1FSCU_200	EPFU_SM1FSCU_200	200
EPFU_SM1FSCU_250	EPFU_SM1FSCU_250	250
EPFU_SM1FSCU_300	EPFU_SM1FSCU_300	300
EPFU_SM1FSCU_400	EPFU_SM1FSCU_400	400
EPFU_SM1FSCU_500	EPFU_SM1FSCU_500	500

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Technical Specifications

Connector

Type	LC Duplex UPC (APC available upon request)
Ferrule	Ceramic, 1.25mm, not fitted with springs, LC - Compatible
Plug Color	Blue
Mating Durability	500
Operating Temperature	-40°C to +75°C

Cable

Fibre	9/125µ G.657.A2 & B2	
No. of Fibres	2	
Outer Sheath (mm)	1.8 +/- 0.2	
Sheath Color	Yellow (single mode)	
Filler Elements Colors	Uncoloured	
Cable Weight (kg/km)	3	
Pulling Force (N)	150	
Side Load	IEC 60794-1-2-E3	1250 N / 100mm
Impact	IEC 60794-1-2-E4	5 nM
Repeated Bending	IEC 60794-1-2-E6	R=25x D, 100 cycles
Cable Bend	IEC 60794-1-2E11	R=20x D
Temperature Range	Transportation & Storage	-30 to +60°C
	Installation	-10 to +50°C
	Operation	-20 to +60°C

Optical Performance

Fiber	Connector type	Wavelength	IL (dB) typical	IL (dB) maximum	RL (dB) typical	RL (dB) maximum
90/125µ	Pre-Ferruled LC/UPC	1550nm	≤0.25	0.45	≥55	55

Construction

After snapping the housing on the 1.25mm ferrule it transforms to a small form fiber optic connector. This connector is designed according to IEC 61 754-20 and TIA/EIA 604-10-A international standard and therefore fully LC standard compatible. Dry core non-metallic access cable for microducts according to IEC 60794-5 comes with the BendBrightXS fibers inside, making the cable less susceptible to macro- and microbending.

Draka's ferrule assembly for (LC compliant) connectors is a new compact pre-connectorized system which can be used within ducts of very small size or can be blown into microducts, offering an easy and reliable solution to perform FTtx installations.

Installation details

- Can be installed without house-visit using an air-venting end-stop (see datasheet CP036)
- Finishing the connector is easily done during installation. No polishing or splicing, also no attenuation measurement needed.
- Installable (blowing) up to 1000m through 4mm inner diameter microducts (see datasheet CP053 & CP095) with narrow (<70mm, 35mm with shuttle) bends

Tests

Interferometer, Insertion Loss, Return Loss and Visual Final Inspection
 QS-Management system ISO 9001:2000, ISO 14001 and TL 9000

Specifications and Standards

IEC 61 754-20 "Fiber optic connector interfaces – type LC connector family"
 TIA/EIA 604-10-A "Fiber optic intermateability standard – type LC"
 Meets IEC 60874-14-3 mechanical and environment tests.

Dimensions

Max. Ferrule diameter	2.6mm
Max. Ferrule length	22mm
Max. Diameter with 2 Ferrules	3.5mm

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