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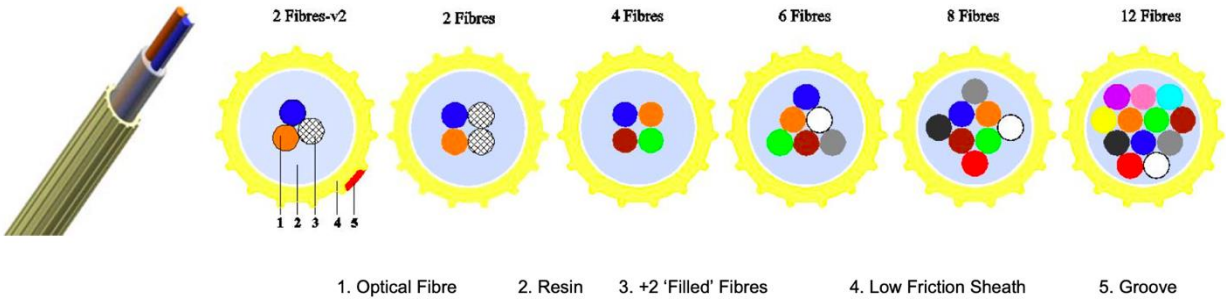
Air Blown Fibre Unit

Description

HOC has been devoted to developing and producing the air blown fibre cable since 2003. So far, it has produced various air blown fibre cable types which are of good performance and compose a complete series of air blown products. ABF is the important part of the series, and it is the most popular product of the indoor optical fibre cables for generic cabling in Europe、Japan 、South Korea and so on.

The ABF is the product that with small diameter, lightweight, highly flexibility and proper stiffness, and it can be blown into the micro duct of 5.0/3.5mm. The fibres are coated with a soft acrylate resin which provides excellent dimensional and thermal stability to cushion the fibres, in addition, the resin can be easily stripped in connecting the fibres. The outer sheath is a thermoplastic that is of low friction. The surface of the sheath is designed with special grooves, compared to the surface of the traditional optical fibre cable, it provides not only the high level of mechanical protection, but also the perfect blowing performance.

Cable Structure



Features and Benefits

- 2、4、6、8 and 12 fibres options.
- Stable structure, good mechanical, and temperature performance.
- Designed with special grooves to advance blowing distance.
- Lightweight and proper stiffness, repeat installation.
- Designed with no gel, easy stripping, and handling.
- Better costs advantage compared to traditional product.
- Complete accessories, less manpower, lower installation time.

Standards

Unless otherwise specified in this specification, all requirements shall be mainly in accordance with the following standard specifications.

Optical Fibre ..... ITU-T G.652、G.657
IEC 60793-2-50
Optica Cable ..... IEC 60794-1-2、IEC 60794-5

Technical Characteristics

Fiber Count	2 core	2 core	4 core	6 core	8 core	12 core
Model No.	EPFU-2B1.3 V2	EPFU-2B1.3	EPFU-4B1.3	EPFU-6B1.3	EPFU-8B1.3	EPFU-12B1.3
OD (mm)	1.13±0.05	1.18±0.05	1.18±0.05	1.35±0.05	1.55±0.05	1.65±0.05
Weight (g/m)	0.9	1.0	1.0	1.3	1.8	2.2
Min bending radius (mm)	50	50	50	60	80	80
Temperature range	Storage: -30℃ ～ +60℃; Operation: -30℃ ～ +60℃; Installation: -5℃ ～ +50℃					
Cable life (estimated)	25 years					

Testing Parameter

1. Fiber Unit Attenuation

Fibre Type	SM G.652D、G.657
Attenuation	0.40dB/km max @1310nm 0.30dB/km max @1550nm

2. Blowing Test

Fibre Count	2 Fibres	4 Fibres	6 Fibres	8 Fibres	12 Fibres
Test equipment		PLUMETTAZ：UM25, ERICSSON：F, CATWAY：FBT-1.1			
Standard duct		5.0/3.5 mm			
Pressure		7bar / 10bar			
Typical blowing distance	500m / 1000 m	500m / 1000m	500m / 1000m	500m / 1000m	500m / 800m
Typical blowing time	10 min / 18 min	10 min / 18 min	12 min / 18 min	13 min / 18 min	15 min / 20 min

3. Mechanical Performance

Test	Standard	Parameters	Test Results
Tension	EN 18700 A1/501 IEC 60794-1-2-E1	Load is 1×W	Additional attenuation ≤0.05dB after test
Bend	IEC 60794-1-2--E11A	Diam 40mm×3turns 5 cycles at 20℃	Additional attenuation ≤0.05dB, after test
Crush	IEC 60794-1-2-E3	100 N, 60s	Additional attenuation ≤0.05dB, after test
			All optical testing proceeded at 1550 nm

4. Environment Performance

Test	Standard	Parameters	Test Results
Temperature Cycle	IEC 60794-1-2-F1	-30℃, +70℃, (2 cycles)	Absolute attenuation ≤0.5dB/km, during test Additional attenuation ≤0.1dB/km, during and after test
Water Soak	IEC 60794-5	1000 hours in water, 18℃～22℃	(Test after temp cycle) ≤0.07dB/km Change compared to start value
Damp Heat Cycle	IEC 60068-2-38	25℃, 65℃, 25℃, 65℃, 25℃,-10℃, 25℃	Absolute attenuation ≤0.5dB/km, during test Additional attenuation ≤0.1dB/km, during and after test
			All optical testing proceeded at 1550 nm

Fiber Color Code (Fibre colors can also be determined by customer)

NO.	1	2	3	4	5	6	7	8	9	10	11	12
Color	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua

Sheath Color Yellow

Sheath Marking

The outer sheath is marked in 1 meter intervals as follows:

HOC ABF type of fibre and number [MM-YYYY] =length marking in meter=

Example: HOC ABF G652D 4F [04- 2014] =1888m=

Delivery Length

Standard delivery lengths are 1000m, 2000m, 3000m, 4000m, 6000m with a tolerance of -0.5～+1%.
For more options, please contact the customer service.

Packing

Free coiling in the pan.

Fibre Count	Length （m）	Pan Size Φ×H (mm)	Weight (Gross) (kg)
2～4 Fibres	2000 m	φ510 × 200	8.0
	4000 m	φ510 × 200	10.0
	6000m	φ510 × 300	13.0
6 Fibres	2000 m	φ510 × 200	9.0
	4000 m	φ510 × 300	12.0
8 Fibres	2000 m	φ510 × 200	9.0
	4000 m	φ510 × 300	14.0
12 Fibres	1000 m	φ510 × 200	8.0
	2000 m	φ510 × 200	10.0
	3000m	φ510 × 300	14.0
	4000 m	φ510 × 300	15.0

Ordering Information

Model No.	Description	Remark
Air Blown Fibre	Fiber count Fiber type Sheath material Sheath color	Contact our sales or technical dept for more information: Sales: sales@honecable.com Technical: tony@honecable.com