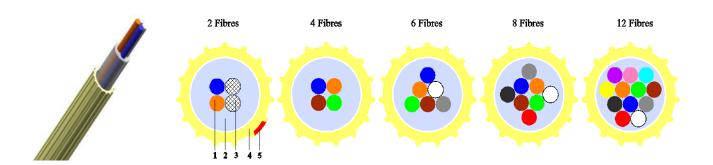


DYS FIBER OPTIC LIMITED

Air-blown fiber unit



Introduction

ABF is the important part of the series, and it is the most popular product of the indoor optical fiber cables for generic cabling in Europe, Japan, and South Korea etc. The ABF is the product that with extra small diameter, lightweight, highly flexibility and proper stiffness, and it can be blown into the 5.0/3.5mm microduct. The fibers are coated with a soft acrylate resin which provides excellent dimensional and thermal stability to cushion the fibers. In addition, the resin can be easily stripped in connecting the fibers. 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 fiber cable. It also provides not only the high level of mechanical protection, but also the perfect blowing performance.

Features and Benefits

- \geq 2, 4, 6, 8 and 12 fiber 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 FiberITU-T G.652, G.657 IEC 60793-2-50

Optica CableIEC 60794-1-2、IEC 60794-5



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Basic Performance

Fiber Count	2 Fiber	4 Fiber	6 Fiber	8 Fiber	12 Fiber		
Outer Diameter (mm)	1.15±0.05	1.15±0.05	1.35±0.05	1.50±0.05	1.65±0.05		
Weight(g/m)	1.0	1.0	1.3	1.8	2.2		
Min Bend radius (mm)	50	50	60	80	80		
Temperature	Storage: $-30^{\circ}\text{C} \sim +70^{\circ}\text{C}$ Operation: $-30^{\circ}\text{C} \sim +70^{\circ}\text{C}$ Installation: $-5^{\circ}\text{C} \sim +50^{\circ}\text{C}$						
Cable service life (estimate value)	25 years						

Note: It is recommended that the structure of 2 fiber unit consist of 2 filled fiber, for it is proved that 2 fiber unit with 2 filled fiber is better than the

Testing parameter

1. Fiber Unit Attenuation

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

2. Blowing Test

Fiber Count	2 Fiber	4 Fiber	6 Fiber	8 Fiber	12 Fiber			
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			



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3. Mechanical Performance

Test	Standard	Parameters	Test Results						
Tension	EN 18700 A1/501	Load is 1×W	Additional attenuation ≤0.05dB after test						
	IEC 60794-1-2-E1								
Bend	IEC 60794-1-2E11A	Diam 40mm×3turns 5 cycles at 20°C	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°C, +70°C,	Absolute attenuation ≤0.5dB/km,during test	
Temperature Eyere	112 007711 211	(2 cycles)	Additional attenuation <0.1dB/km,duringand a	
Water Soak	IEC 60794-5	1000 hours in water,	(Test after temp cycle) ≤0.07dB/km	
Water Souk	120 007712	18℃~22℃	Change compared to start value	
Damp Heat Cycle	IEC 60068-2-38	25°C, 65°C, 25°C, 65°C,	Absolute attenuation ≤0.5dB/km,during test	
Damp Treat Cycle	12.00000 2 30	25℃,-10℃, 25℃	Additional attenuation ≤0.1dB/km, during and after	
			All optical testing proceeded at 1550 nm	

Ordering Information

Fiber Color Code (Fiber 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

Jacket Color:Yellow

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

HuiYuan ABF type of fiber and numbe [MM-YYYY]=length marking in meter=

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

Delivery Length

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