Air Blown Fiber Cable-MABFU

Micro air-blown fiber unit (MABFU)

Introduction:

MABFU is the important part of the air blown fibre cable, 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 MABFU is the product that with small diameter, lightweight, highly flexibility and proper stiffness, and it can be blown into the microduct 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.

Features and Benefits:

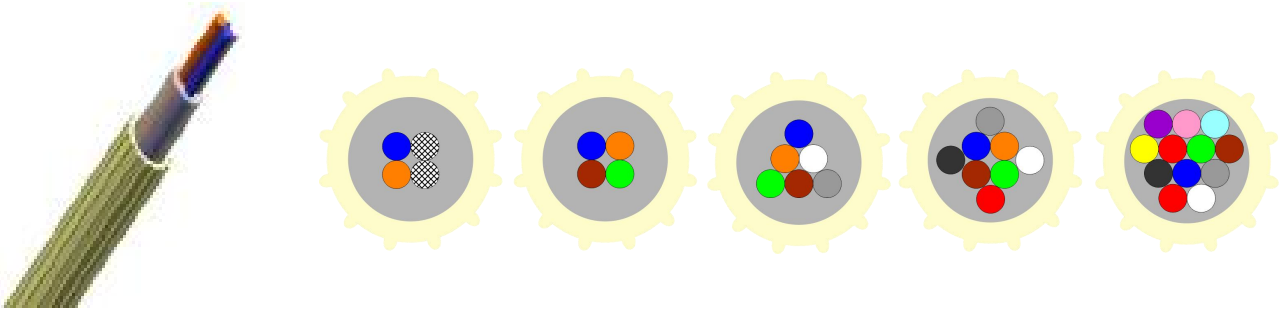
- 2、4、6、8 and 12 fibres options.
- Stable structure, good mechanical and temperature performance.
- Designed with special grooves to advance blowing distance.
- Lightweight and proper stiffness , repeat installation.
- Designed with no gel, easy stripping and handling.
- Better costs advantage compared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

Cross Section:



Basic Performance

Fibre Count	2 Fibres	4 Fibres	6 Fibres	8 Fibres	12 Fibres
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℃ ~ +70℃ Operation：-30℃ ~ +70℃ Installation：-5℃ ~ +50℃				
Cable service life	25 years				

Note: It is recommended that the structure of 2 fibres unit consist of 2 filled fibres, for it is proved that 2 fibres unit with 2 filled fibres is better than the one with zero or one filled fibre in the blowing performance and the fibre stripping-ability

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Testing parameter

Fibre Unit Attenuation

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

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/1000 m	500m/1000 m	500m/1000 m	500m/800 m
Typical blowing time	10min/18min	10min/18min	12min/18min	13min/18min	15min/18 min

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

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

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Fibre Color Code

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

Sheath Color

- Yellow

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.

Packaging

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
	6000 m	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
	3000 m	φ510 × 300	14.0
	4000 m	φ510 × 300	15.0

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