Version:4.0

48-144F Micro-duct air-blown cable

-Adopt 12f micro unit

Cable Type: GCYFY—xxxB6a2 （200μm）

Release Date: March 30,2011

Applications: Air- blowing installation

Code: GCYFY-xxxB6a2 （200μm）

GCYFY: Non-metallic strength, PE sheath, loose tube outdoor micro cable

xxxB6a2: fibre count

B6a2: Easyband® plus fibre

（200μm）:Diameter of coating is 200μm

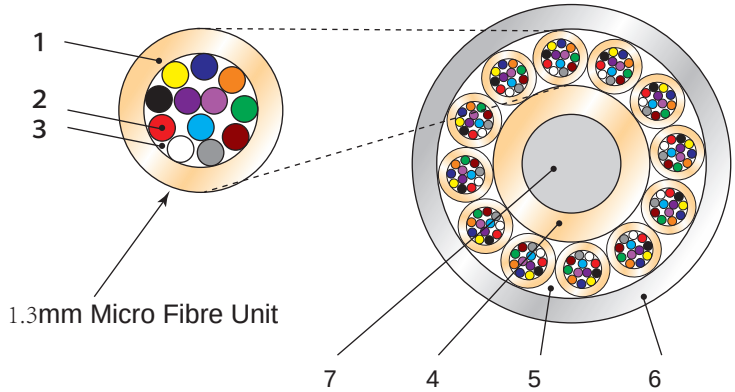
Cable Characteristics:

200μm B6a2 fibres are used to construct 12 fibres' micro unit, and by virtue of this, the size of optic cable can be miniaturized so as to enable the micro tubes up to 12/10 applicable in the whole series of blowing cables up to 144F and solve the problem that the diameter of the conventional stranded loose tube cable exceeds the maximum cable diameter that the 12/10 micro tube allows. It also makes the micro cables of smaller fibre counts can be blown into smaller micro tubes and hence increase the density of the fibres installed in the duct.

Meet the standards :

YD / T 1460.4-2006 communication blowing micro-cables and fibre units Part 4: Micro-cable.

Cable structure



1. PBT tube
2. 200μm Easybandplus fibre
3. Gel
4. TCentral strength plastic layer sets
5. Water-blocking material
6. PE jacket
7. TNon-metallic central strength

Structure and size

Fibre Count	Number of fibre per PBT tube	Number of PBT tube	Dia.PBT tube (mm)	Jacket thickness (mm)	Dia. (mm)	For microtubules (mm)	Weight (kg/km)	Bending Radius Static	Bending Radius Dynamic
≤48	12	5	1.3	0.5	4.5	8/6 or 10/8	16	10D	20D
50-72Xn	12	6	1.3	0.5	5.0	10/8	20	10D	20D
74-96Xn	12	8	1.3	0.5	5.8	10/8	30	10D	20D
98-144Xn	12	12	1.3	0.5	7.5	12/10	48	10D	20D

Note: D is the outer diameter ofcable

Optical transmission characteristics

Fibre Type	20℃ typical attenuation factor		
	1310nm	1550nm	1625nm
B6a2	≤ 0.40 dB/km	≤ 0.25 dB/km	≤ 0.25 dB/km
(200μm Easybandplus)	Test Method：GB/T 15972.40-2008		

Note: See other fibre characteristics in the latest product specifications of YOFC

Environmental characteristics

No.	Item	Indicators, and test methods
1	Operation/Storage/ transport temperature	-40℃ ~ +70℃
2	Installation temperature	-20℃ ~ +70℃
3	Temperature characteristics of attenuation	6.6.1 in YD/T 1460.4-2006
4	Seepage	70℃,no filling compound and coating compound drop out Method F6 in GB / T 7424.2-2008
5	Water penetration	1m high water is applied on the whole l cross section of 3m long cable, and no water comes out in 24 hours Method F5B in GB/T 7424.2-2008.

Mechanical properties

No.	Item	Indicators	Test Method
1	long-term tensile strength	0.15G	YD/T1460.4-2006-6.5.2
2	short-term tensile strength	0.5G	
3	long-term crush resistance	150N/100mm	YD/T1460.4-2006-6.5.3
4	short-term crush resistance	450N/100mm	
5	Repeated bending	50N，30 times	YD/T1460.4-2006-6.5.4
6	Reverse	±90°，10 times	YD/T1460.4-2006-6.5.5
7	Coiling	10 rounds，5 cycles	YD/T1460.4-2006-6.5.6