

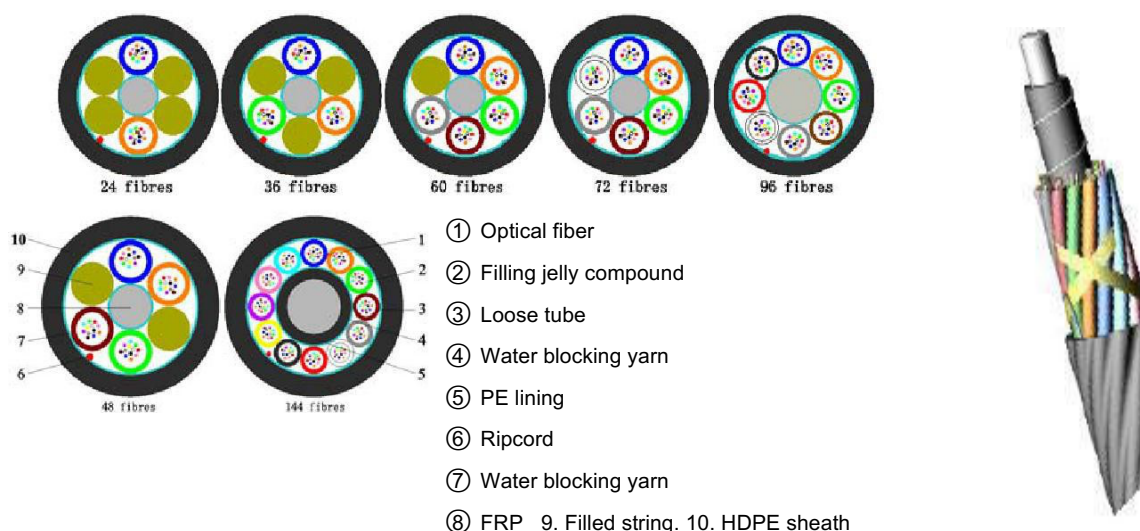
Micro Blown Cable

Description

HOC has been devoted to developing and producing the air blown fibre cable since 2002. So far, we have produced various air blown cable types, in that, the air blown micro cable and the air blown fibre unit are the main products.

It is proved that HOC products are superior to the other ones in several product performance tests, and the cables are praised by all the customers during its blowing installation. Till 2010, HOC has exported micro cables to Europe about 10000 km and supplied to domestic customers nearly 1500 km

Structure



Characteristics

Optimum cable structure, high fibre density.
Accurate fibre length balance, ensure stable performance.
No gel in cable core for water blocking, low carbon and environmental.
Structure Innovation in sheath, enhancing the blowing performance.

Standards

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

Optical fibreITU-T G.652D、G657、IEC 60793-2-50

Optical cableIEC 60794-5、IEC 60794-1-2

Technical Index

Cable Type		Layer Cable							
Fibre Count		12	24	36	48	60	72	96	144
Number of loose tube		1	2	3	4	5	6	8	12
Number of filled string		5	4	3	2	1	0	0	0
Number of fiber/tube		12							
Water blocking method	FRP or PE Lining	Water Blocking yarn							
	Cable Core	Water Blocking yarn							
Thickness of HDPE sheath		Nominal: 0.50mm, Average: 0.45mm, Minimum: 0.40mm							
Overall Diameter		5.6±0.1 mm					6.4±0.1 mm	7.8±0.1 mm	
Weight		27 kg/km					40 kg/km	55 kg/km	
Max. Tensile Strength		500N					1000N	1000N	
Max. Crushing Resistance		800N/100mm							
Min. Bending radius -Static		12 outer Φ							
Min. Bending radius -Dynamic		20 outer Φ							
Cable Fiber Attenuation (single mode)		0.35dB/km max @1310nm 0.22dB/km max @1550nm							
Temperature range		Storage -40~+70℃； Installation -10~+40℃； Operation -40~+70℃							
Cable service life (estimate value)		25 years							

Testing Index

Blowing Performance

Blowing Tool	Typical blowing length		
PLUMETTAZ : PR-140, MiniJet-400 etc. Air pressure : 15bar	Fiber Count	Duct type 8.0/10.0mm	Duct type 10.0/12.0mm
	12 72 Fibers	≥1800m	≥2300m
	96 Fibers	≥1800m	≥2300m
	144 fibers	/	≥1200m

Mechanical Performance

Item	Testing Method	Testing Results	Specified Value
Tension performance	IEC 60794-1-2-E1	Short term : a <0.10 a dB, reversible ; Long term : a ≤0.03 dB ;	Short term : see technical index Long term = 0.5 Short term
Crush	IEC 60794-1-2-E3	Short term : a <0.10 a dB, reversible ; Long term : a ≤0.03 dB ; The outer sheath has no visible crack.	Short term crushing force =800 N Long term crushing force =400 N
Repeated bending	IEC 60794-1-2-E6	After test, a ≤0.03 dB ; The outer sheath has no visible crack.	R=20 outer Φ Bending load =50N Bending times =30
Torsion	IEC 60794-1-2-E7	After test, a ≤0.03 dB ; The outer sheath has no visible crack.	Torsion angle=±180° Torsion load =50N Torsion times =10
Cable bend	EC 60794-1-2- E11A	After test, The optical fiber can't be broken ; The outer sheath has no visible crack.	R=20 outer Φ 10Turns Cycles times =5













All optical testing proceeded at 1550 nm

Environment Performance

Item	Testing Method	Testing Results
Temperature cycling	IEC 60794-1-2-F1	Allowable additional attenuation (1550nm)
		G.652D/G65 7
		$\alpha \leq 0.05$ dB/km, α
Water penetration	IEC 60794-1-2-F5B	reversible ;
Filling compound flow	IEC 60794-1-2-E14	Water column: 1m, 3m cable, Period:24 hours













Other Index

Fiber Colors

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
												

Loose Tube Colors

(Loose tube colors can be determined by the requirement of 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
												

12~72 Fibers: 1~6 colors, 96 Fibers: 1~8 colors, 144 Fibers: 1~12 colors

Filled String Colors

All filler string are uncolored (natural).

- Cable core: SZ stranding.
- Sheath Color : Black
- Sheath Marking

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

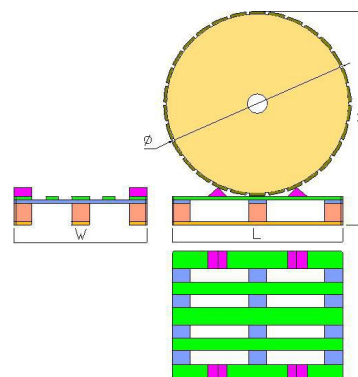
number and type of fiber Fibers Per Tube×Tube Count [MM-YYYY] =length

ABC marking in meter=

Example: ABC 48 G652D 12×4 [04- 2014] =6888m=

Packing

Wooden or plywood drums with protection.



Delivery Lengths

Standard delivery lengths are 2km, 4km, 6km, 8km with a tolerance of -1%~+3%.

Fibre Count	Drum Length (mm)	Drum Size $\Phi \times W$ (mm)	Packing Size L×W ×H (mm)	Weight (Gross) (kg)
12~72 Fibers	2000	$\Phi 600 \times 450$	640×450×805	95
	4000	$\Phi 700 \times 570$	740×570×905	160
	6000	$\Phi 800 \times 570$	840×570×1005	230
	8000	$\Phi 800 \times 750$	840×750×1005	280
96 Fibers	2000	$\Phi 600 \times 570$	640×570×805	120
	4000	$\Phi 800 \times 570$	840×570×1005	220
	6000	$\Phi 800 \times 750$	840×750×1005	300
	8000	$\Phi 900 \times 750$	940×750×1105	390
144 Fibers	2000	$\Phi 800 \times 570$	840×570×1005	190
	4000	$\Phi 900 \times 750$	940×750×1105	330
	6000	$\Phi 1000 \times 750$	1050×750×1315	480

Ordering Information

Model No.	Description	Remark
Micro Fiber Cable	<input type="checkbox"/> Fiber count <input type="checkbox"/> Fiber type <input type="checkbox"/> Sheath material <input type="checkbox"/> Sheath color	Contact our sales or technical dept for more information: Sales: sales@honecable.com Technical: tony@honecable.com