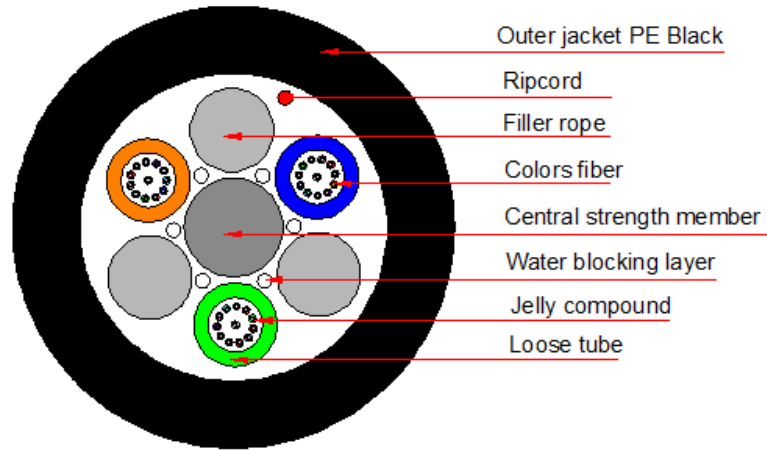


GCYFTY Air Blown Cable



Cable characteristics

- 1.Small size, light weight, low friction coefficient
- 2.Plasticity shrink back small, can operating in low temperature and temperature difference environment
- 3.Rigidity high, can blow farther in conduit track comparatively straight

Applications:Used for air-blown laying in micro-tube

Cable technical parameters

No. of cable		/	2-24	36	48	60	72	96	144	216	288	
Fiber type		/	G.652D									
Central Strength Member	Material	mm	FRP									
	Diameter (±0.05mm)		1.4	1.4	1.4	1.4	1.4	1.4	2.3	1.4	2.0	
Additional jacket	Material	mm	MDPE									
	Size (±0.05mm)		—	—	—	—	—	2.7	3.8	—	6.0	
Loose Tube	Material	mm	PBT									
	Diameter (±0.05mm)		1.4									2.0
	Thickness (±0.03mm)		0.15									0.2
	MAX.NO./per		12									24

Filler Rope	Material	mm	LDPE								
	Diameter ($\pm 0.05\text{mm}$)		1.3								
	NO.		4	3	2	1	—	—	—	—	
Water Blocking Layer	Material	/	Water Blocking Yarn								
Ripcord	Material	/	Kevlar								
Outer jacket	Material	mm	H DPE								
	Thickness		0.5 (nominal) 0.40(min.)								
	Colour		Black.								
Cable Diameter($\pm 0.2\text{mm}$)		mm	5.0	5.0	5.5	5.5	5.5	6.5	8.5	8.5	11.0
Cable Weight($\pm 10.0\text{kg/km}$)		kg/km	25	25	25	25	25	35	60	60	95
Attenuation coefficient	1310nm	dB/km	≤ 0.35								
	1550nm		≤ 0.21								
MAX. Tensile Strength		N	500	500	500	500	500	1000	500	1000	
MAX. Crush Resistance		N/100m	800								
Min. bending radius	Without Tension	mm	10.0×Cable- ϕ								
	Under Maximum Tension		20.0×Cable- ϕ								
Temperature range (°C)	Installation	°C	-10~+40								
	Transport&Storage		-40~+70								
	Operation		-40~+70								

The true weight of optical cable may had some tolerance with the above stated value.

Fibre Colours

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
No.	13	14	15	16	17	18
Color	Blue''	Orange''	Green''	Brown''	Gray''	White''
No.	19	20	21	22	23	24
Color	Red''	Black''	Yellow''	Violet''	Pink''	Aqua''

Loose Tube Colours

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

Transmission Characteristics:

Fiber type	Attenuation				OFL bandwidth	Effective model bandwidth	10G Ethernet SX	Min bend radius
Conditions	1310/1550nm		850/1300nm		850/1300nm	850nm	850nm	/
	Typical	Maximum	Typical	Maximum				
Unit	dB/km	dB/km	dB/km	dB/km	MHZ.km	MHZ.km	m	mm
G652D	0.36/0.22	0.4/0.3	---	---	---	---	---	16
G657A1	0.36/0.22	0.4/0.3	---	---	---	---	---	10
G657A2	0.36/0.22	0.4/0.3	---	---	---	---	---	7.5
50/125	---	---	3.0/1.0	3.5/1.5	≥500/500			30
62.5/125	---	---	3.0/1.0	3.5/1.5	≥200/500			30
OM3	---	---	3.0/1.0	3.5/1.5	≥1500/500	≥2000	≤300	30
OM4	---	---	3.0/1.0	3.5/1.5	≥3500/500	≥4700	≤550	30
BI-OM3	---	---	3.0/1.0	3.5/1.5	≥1500/500	≥2000	≤300	7.5
BI-OM4	---	---	3.0/1.0	3.5/1.5	≥3500/500	≥4700	≤550	7.5

Main mechanical & environmental performance test

Item	Test Method	Acceptance Condition
Tensile Strength IEC 794-1-2-E1	- Load: Short term tension - Length of cable: about 50m	- Loss change ≤ 0.1 dB @ 1550 nm - No fiber break and no sheath damage.
Crush Test IEC 60794-1-2-E3	- Load: Short term crush - Load time: 1min	- Loss change ≤ 0.05 dB@ 1550nm - No fiber break and no sheath damage.
Impact Test IEC 60794-1-2-E4	- Points of impact: 3 - Times of per point: 1 - Impact energy: 5J	- Loss change ≤ 0.1 dB@ 1550nm - No fiber break and no sheath damage.
Temperature Cycling Test YD/T1460-2006	- Temperature step: +20°C→-40°C→+70°C →+20°C - Time per each step: 12 hrs - Number of cycle: 2	- Loss change ≤ 0.05 dB/km@ 1550 nm - No fiber break and no sheath damage.

Cable sheath marking

White color printing at each meter distance of cable sheath

The standard printing contents are as below, alternative contents available on request

- 1.Meter mark
- 2.Cable model
- 3.Fiber count
- 4.Company/Brand name
- 5.Manufacture month and year

Labelling of wooden reel

The standard label contents are as below (alternative labelling available on request)

- 1.Cable model
- 2.Fiber count
- 3.Length of cable packed on reel
- 4.Gross weight KGS
- 5.Total no. of reels of the batch of cargoes
- 6.Manufacture month and year