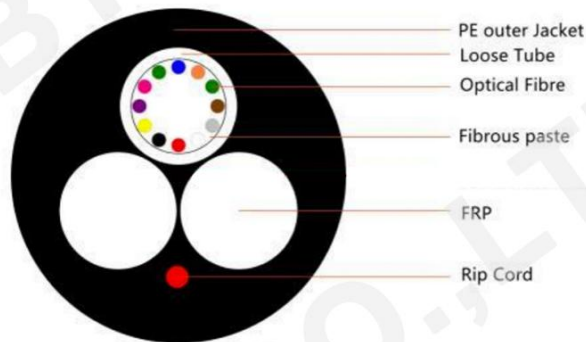




Cable type GYFXY (ASU)

Cable section diagram



Technical specifications of optical cable

Fiber count		4	6	8	12
Optical fiber type		G652D			
Structure		2+1			
Stiffener	Material	FRP			
	diamete (± 0.05) mm	1.7			
Loose tube	Material	PBT			
	diamete (± 0.06) mm	2.0			
	Thickness (± 0.03) mm	0.3			
	Fibers pertube	4	6	8	12
Outer jacket	Material	MDPE			
	Thickness (± 0.2) mm	1.5			
Cable size mm		7.0 \pm 0.2			
Fiber optic cable net weight (± 10) kg/km		45			
Tensile strength		2000			
application		Overhead, electric power			



Span	100M	
Attenuation	1550nm	≤0.2dB/ km
bending radius	Dynamic	25.0
	Static	15.0
temperature range (°C)	Installation Temperature	-20°C+60°C
	Transportation & Storage	-40°C+70°C
	running temperature	-40°C+70°C

Optical chromatography

serial number	1	2	3	4	5	6
colour	Blue	tangerine	green	brown	grey	white
serial number	7	8	9	10	11	12
colour	Red	Black	Yellow	Purple	Pink	turquoise

Loose tube chromatography

serial number	1
colour	white

Fiber properties (ITU-T G.652D)





Item		Unit	Specification
			G.652D
Mode field diameter	1310nm	um	9.2 ± 0.4
	1550nm	um	10.4 ± 0.8
Cladding diameter		um	125 ± 1
Cladding non-circularity		%	≤ 1.0
Core/cladding concentricity error		um	≤ 0.5
Coating diameter		um	242 ± 7
Coating/cladding concentricity error		um	≤ 12
Cable cut-off wavelength		nm	≤ 1260
Attenuation Coefficient	1550nm	dB/km	≤ 0.22
	1310nm	dB/km	≤ 0.36
Proof stress level		kpsi	≥ 100

ITU-T G.652D Other parameters meet standard ITU-T G.652

number	item	test mode	acceptance requirements
1	Stretch IEC 60794-1-2-E1	<ul style="list-style-type: none"> - Load : 600 N(long term) G (short-term) When G is less than 1500N, the cable load should be 1500N ; when G is between 1500 and 3000N, the cable load should be 1500N; when G is greater than 3000N, the cable load should be 3000N. - Subject length : 50 m - Load duration: ≥ 1 minute 	<ul style="list-style-type: none"> Under long- term tension load: - The optical fiber has no obvious strain - No obvious additional attenuation Short- term tension load: - Additional attenuation : 0.1dB After the test is completed : - No significant residual additional attenuation - No obvious residual fiber strain - No broken fiber and visible cracking of sheath - Cable residual strain: 0.08%



2	flattening IEC 60794-1-2-E3	300 N (long term) 1000 N (short term) - Load duration: \geq 1 minute	Under long- term flattening load: - No obvious additional attenuation Short- term flattening load: - Additional attenuation : 0.1dB After the test is completed: - No significant residual additional attenuation - No broken fiber and visible cracking of sheath
3	impact IEC 60794-1-E4	4.5 N · m - Impact points: 5 - Impact times per point :1 - Impact energy : 4.5 N · m	After the test is completed : - No significant residual additional attenuation - No broken fiber and visible cracking of sheath
4	alternating bending IEC 60794-1-2-E6	- Core shaft radius : 20 times cable diameter - Load: 15kg - Subject length: 1 m - Bending rate: 2 seconds/time - Bending times: \geq 30 times - Bending Angle: \pm 90	After the test is completed: - No significant residual additional attenuation - No broken fiber and visible cracking of sheath
5	reverse IEC 60794-1-E7	- Subject length: 1 m - Load: 15kg - Torsion Angle: \pm 180° - Number of twists : \geq 10 times	After the test is completed: - No significant residual additional attenuation - No broken fiber and visible cracking of sheath
6	infiltration test IEC 60794-1-F5	- Water column height: 1 m - Sample length: 3 m - Test duration : 24 hours	There is no water seepage





7	High and low temperature cycle test IEC 60794-1-F1	+20°C → -40°C → +70°C → +20°C - Duration of each temperature point: 12 hours - Number of cycles : 2	-40°C +70 °C Additional attenuation 0.1 dB/km@1550 nm After the test is completed: - No significant residual additional attenuation - No broken fiber and visible cracking of sheath
8	Drip test IEC 60794-1-E14	- Sample length : 30 cm - Temperature: 70° C ± 2° C - Test time: 24 hours	No drip

Sheath tag

The printed words on the optical cable should be 1 meter apart and numbered sequentially for 1 length marking. The initial number of lengths ordered for any coil shall begin with zero metres. The accuracy of length marker measurement should be controlled within $\pm 1\%$. Fiber optic cable printing should have the following content

- A.Name of manufacturer
- B.Cable type
- C.Year and month of manufacture
- D.each meter of length marked along the cable

Optical fiber some	Wooden tray diameter	Wooden plate width	segment length	net weight $\pm 10\%$ KG/KM	gross weight $\pm 10\%$ KG /KM	packaging
4-12	800mm	700mm	4000	180kg	220kg	Plywood plate sealing plate



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