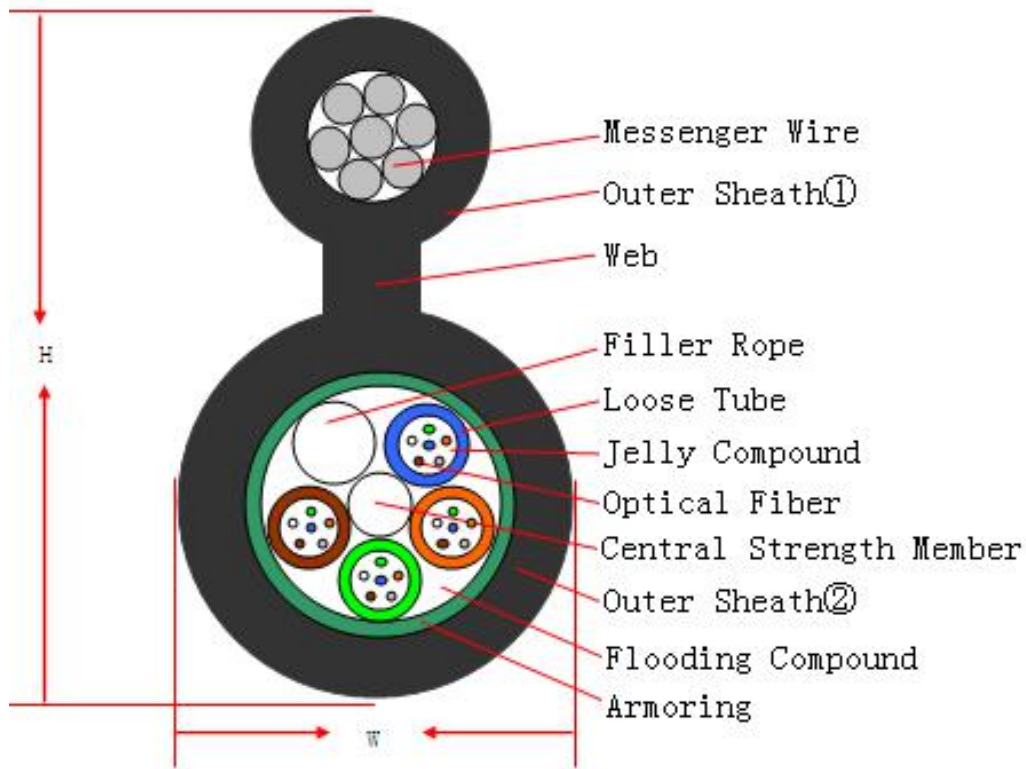


Figure-8 Aerial Optic Cable, Single Mode (GYTC8S)

Cable Design



Technical Data Sheet

No. of cable		12	24	48
Fiber Model		G.652D		
Design (StrengthMember+Tube&Filler)		1+5		
Central Strength Member	Material	Steel Wire		
	Diameter (±0.05) mm	1.4		
Loose Tube	Material	PBT		
	Diameter (±0.06) mm	1.65	1.65	1.9
	Thickness (±0.03) mm	0.25	0.25	0.30
	The Max.Core NO./Tube	6	6	12
Filler Rope	Material	LDPE		
	Diameter (±0.05) mm	1.65	1.65	1.9
	NO.	3	1	1
Armoring	Material	Steel tape		
	Thickness (+0.03) mm	0.20		
Outer Sheath①	Material	MDPE		
	Thickness (±0.2) mm	1.5		
Outer Sheath②	Material	MDPE		

	Thickness (±0.2) mm	1.6		
Web	Material	MDPE		
	Size (±0.5) mm	2.0*3.0		
Messenger Wire	Material	Galvanized steel strand		
	Size (±0.1) mm	R7×0.9		
Cable Diameter (±0.5) mm (W×H)		8.9×17.6	8.9×17.6	9.4×19.1
Cable Weight (±10) kg/km		140	140	150
Allowable Tensile Strength(N)		3000		
Allowable Crush Resistance(N/100mm)		1000		
Application		Aerial		
Attenuation	1310nm	≤0.35dB/ km		
	1550nm	≤0.21dB/ km		
Min. bending radius	Without Tension	10.0×Cable-φ		
	Under Maximum Tension	20.0×Cable-φ		
Temperature range (°C)	Installation	-20~+60		
	Transport&Storage	-40~+70		
	Operation	-40~+70		

Fibre Color

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

Loose Tube Color

No.	1	2	3	4
Color	Blue	Orange	Green	Brown

Main mechanical & environmental performance test

Item	Test Method	Acceptance Condition
Tensile Strength IEC 794-1-2-E1	- Load: 3000N - Length of cable: about 50m	- Fiber strain ≤ 0.36% - Loss change ≤ 0.1 dB @1550 nm - No fiber break and no sheath damage.
Crush Test IEC 60794-1-2-E3	- Load: 1000N/100mm - Load time: 1min	- Loss change ≤ 0.05dB@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 ≤ 0.1dB@1550nm - No fiber break and no sheath damage.
Temperature Cycling Test YD/T901-2001-4.4.4.1	- 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.