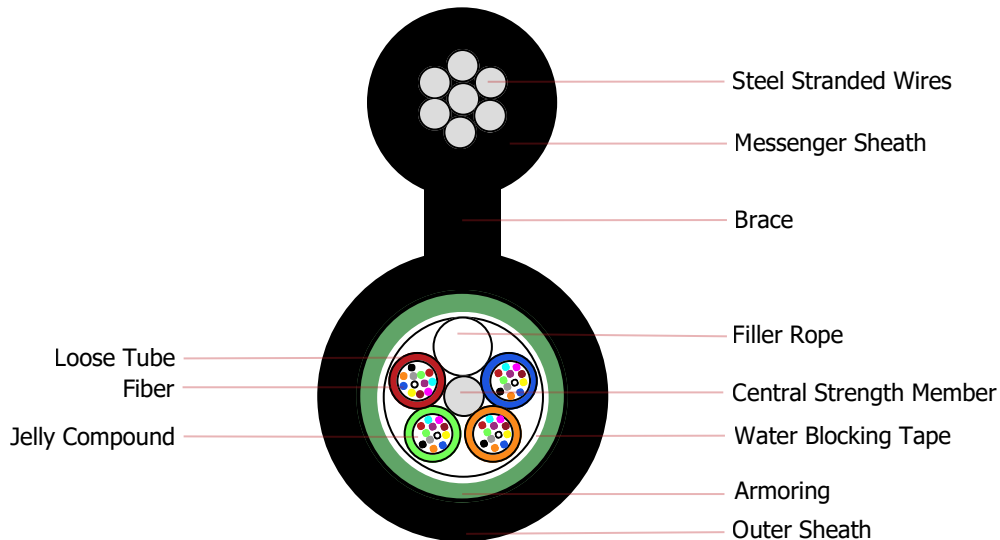


## FIGURE 8 AERIAL OPTICAL FIBER CABLE 48 CORES G652D HDPE (GYTC8S)



### Product Overview

The FiberCore Figure-8 Aerial Cable GYTC8S delivers high-capacity single-mode fiber connectivity using G.652D fibers with low attenuation for long-range outdoor transmission. Built with a robust HDPE outer sheath and integrated steel messenger wire, this 48-core cable offers exceptional mechanical strength and reliability for large-scale aerial network deployments.

### Features

- G.652D single-mode fiber for low attenuation and long-range transmission
- 48-core high-capacity design for large-scale fiber networks
- Integrated steel messenger wire for self-supporting aerial installation
- Rugged HDPE (High-Density Polyethylene) outer sheath for excellent weather resistance
- High tensile strength to endure environmental stress and mechanical loads
- Corrosion-resistant and moisture-proof construction for long service life
- Stable performance in extreme outdoor conditions
- Easy deployment on poles using standard aerial hardware

### Applications

- Aerial backbone and distribution fiber networks
- High-density metropolitan or campus fiber infrastructure
- Fiber to the Building (FTTB) and enterprise access networks
- Long-haul telecom transmission
- LAN/WAN outdoor network expansion
- Utility, transportation, and industrial communication systems
- Rural broadband and multi-point aerial connections



**Want to know more about FiberCore?**

For more information visit [www.fibercore-plus.com](http://www.fibercore-plus.com) or contact [sales@fibercore-plus.com](mailto:sales@fibercore-plus.com)

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## FIGURE 8 AERIAL OPTICAL FIBER CABLE 48 CORES G652D HDPE (GYTC8S)

### Technical Specifications

No. of Cable		48
Fiber Model		G.652D
Design (Strength Member + Tube & Filler)		1+5
Messenger Wire	Material	Galvanization stranded steel wire
	Size ( $\pm 0.05$ ) mm	3.6mm (1.2mm*7)
Messenger Sheath	Material	MDPE
	Thickness ( $\pm 0.15$ ) mm	1.2
	Diameter ( $\pm 0.3$ ) mm	6.0
Central Strength Member	Material	Steel Wire
	Diameter ( $\pm 0.05$ ) mm	1.5
Loose Tube	Material	PBT
	Diameter ( $\pm 0.05$ ) mm	1.9
	Thickness ( $\pm 0.03$ ) mm	0.3
	The Max. Core NO./Tube	12
Filler Rope	Material	LDPE
	Diameter ( $\pm 0.5$ ) mm	1.9
	NO.	1
Water Blocking Material		Water Blocking Tape
Armoring	Material	Steel Tape
	Thickness ( $\pm 0.03$ ) mm	0.20
Outer Sheath	Material	HDPE
	Thickness ( $\pm 0.02$ ) mm	1.5
	Diameter ( $\pm 0.05$ ) mm	9.8
Brace	Material	HDPE
	Size ( $\pm 0.3$ ) mm	2.0*3.0
Cable Size ( $\pm 0.5$ ) mm (W×H)		9.8*18.3
Cable Weight ( $\pm 10$ ) kg/km		188
Allowable Tensile Strength		3600
Allowable Crush Resistance		1000
Attenuation	1310nm	$\leq 0.35$ dB/ km
	1550nm	$\leq 0.21$ dB/ km
Min. bending radius	Dynamic	20.0×Cable-D
	Static	10.0×Cable-D
Temperature range (°C)	Installation	-20~+60
	Transport & Storage	-40~+70
	Operation	-40~+70



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## FIGURE 8 AERIAL OPTICAL FIBER CABLE 48 CORES G652D HDPE (GYTC8S)

### Fiber 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

### The properties of single mode optical fiber (ITU-T Rec. G.652D)

Items	Specifications
Fiber type	Single mode
Fiber material	Doped silica
Attenuation coefficient @ 1310 nm @ 1383 nm @ 1550 nm @ 1625 nm	≤0.35 dB/km ≤0.32 dB/km ≤0.21 dB/km ≤0.25dB/km
Point discontinuity	≤0.05 dB
Cable cut-off wavelength	≤ 1260 nm
Zero-dispersion wavelength	1300 ~ 1324 nm
Zero-dispersion slope	≤ 0.092 ps/(nm <sup>2</sup> .km)
Chromatic dispersion @ 1288 ~ 1339 nm @ 1271 ~ 1360 nm @ 1550 nm @ 1625 nm	≤3.5 ps/(nm. km) ≤5.3 ps/(nm. km) ≤18 ps/(nm. km) ≤22 ps/(nm. km)
PMDQ (Quadrature average*)	≤0.2 ps/km <sup>1/2</sup>
Mode field diameter @ 1310 nm	9.2±0.4 um
Core / Clad concentricity error	≤0.5 um
Cladding diameter	125.0 ± 0.7 um
Cladding non-circularity	≤1.0%
Primary coating diameter	245 ± 10 um
Proof test level	100 kpsi (=0.69 Gpa), 1%
Temperature dependence 0°C~ +70°C @ 1310 & 1550nm	≤ 0.1 dB/km



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**FIGURE 8 AERIAL OPTICAL FIBER CABLE 48 CORES G652D HDPE (GYTC8S)**

**Ordering Information**

Description	Part No.
GYTC8S Outdoor Armored F8 Fiber Optic Cable G.652D 48 Core	FC-34-00223-Y48



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