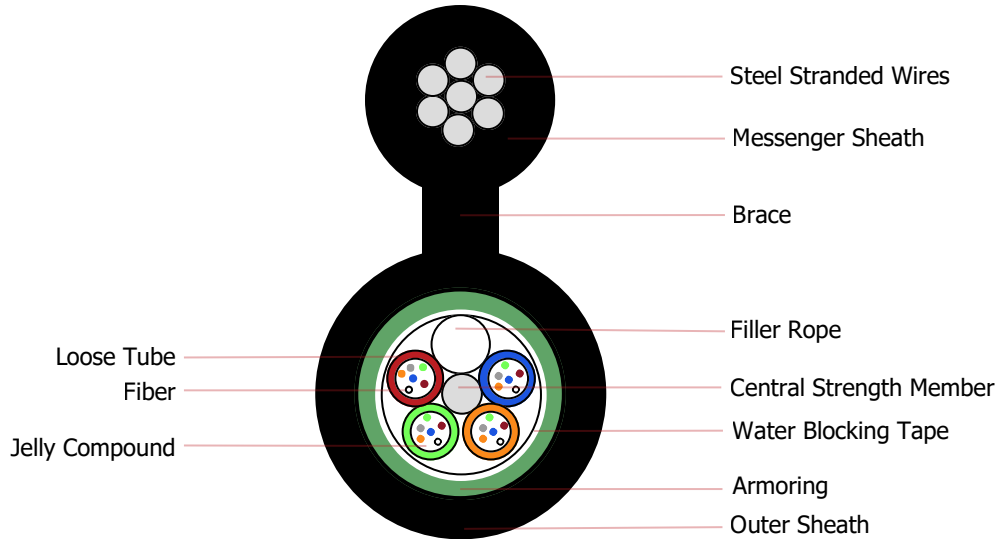


FIGURE 8 AERIAL OPTICAL FIBER CABLE 24 CORES G652D HDPE (GYTC8S)



Product Overview

The FiberCore Aerial Figure-8 Cable GYTC8S delivers reliable single-mode fiber connectivity using G.652D fibers designed for low-loss, long-distance outdoor transmission. Featuring a high-capacity 24-core design, durable HDPE sheathing, and an integrated steel messenger wire, this cable ensures strong mechanical support and stable performance in aerial installations.

Features

- G.652D single-mode fiber for low-loss, long-distance signal transmission
- 24-core high-capacity design for multi-line or dense network applications
- Integrated steel messenger wire for self-supporting aerial deployment
- Robust HDPE (High-Density Polyethylene) outer sheath for UV and weather resistance
- High mechanical strength to endure wind, tension, and environmental stress
- Stable optical performance in outdoor aerial installations
- Corrosion-resistant and moisture-protected construction
- Easy installation using standard aerial suspension 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?

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FIGURE 8 AERIAL OPTICAL FIBER CABLE 24 CORES G652D HDPE (GYTC8S)

Technical Specifications

No. of Cable		24
Fiber Model		G.652D
Design (Strength Member + Tube & Filler)		1+5
Messenger Wire	Material	Galvanization stranded steel wire
	Size (±0.05) mm	3.6mm (1.2mm*7)
Messenger Sheath	Material	MDPE
	Thickness (±0.15) mm	1.2
	Diameter (±0.3) mm	6.0
Central Strength Member	Material	Steel Wire
	Diameter (±0.05) mm	1.5
Loose Tube	Material	PBT
	Diameter (±0.05) mm	1.8
	Thickness (±0.03) mm	0.3
	The Max. Core NO./Tube	6
Filler Rope	Material	LDPE
	Diameter (±0.5) mm	1.8
	NO.	1
Water Blocking Material		Water Blocking Tape
Armoring	Material	Steel Tape
	Thickness (±0.03) mm	0.20
Outer Sheath	Material	HDPE
	Thickness (±0.02) mm	1.5
	Diameter (±0.05) mm	9.6
Brace	Material	HDPE
	Size (±0.3) mm	2.0*3.0
Cable Size (±0.5) mm (W×H)		9.6*18.1
Cable Weight (±10) kg/km		185
Allowable Tensile Strength		3600
Allowable Crush Resistance		1000
Attenuation	1310nm	≤0.35dB/ km
	1550nm	≤0.21dB/ 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 24 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 ² .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 ^{1/2}
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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CONNECTING CORE TO THE WORLD

FIGURE 8 AERIAL OPTICAL FIBER CABLE 24 CORES G652D HDPE (GYTC8S)

Ordering Information

Description	Part No.
GYTC8S Outdoor Armored F8 Fiber Optic Cable G.652D 24 Core	FC-34-00222-Y24

FIGURE 8 OUTDOOR ARMORED CABLE



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