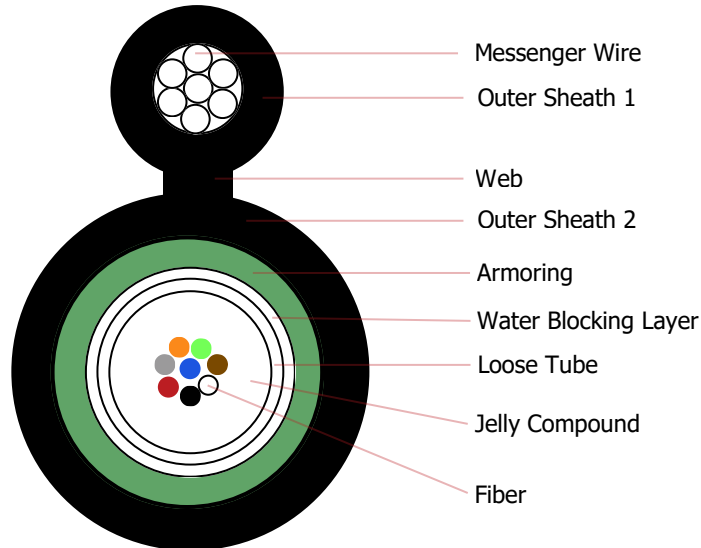


FIBERCORE 8 CORES AERIAL FIGURE 8 OUTDOOR OPTICAL FIBER CABLE G652D HDPE (GYXTC8S)



Product Overview

The FiberCore Aerial Figure-8 Cable GYXTC8S provides reliable single-mode fiber connectivity using G.652D fibers with low signal attenuation for extended outdoor transmission. Engineered with a durable HDPE sheath and an integrated steel messenger wire, this 8-core cable ensures high tensile strength and stable performance in aerial network installations.

Features

- G.652D single-mode fiber for low signal attenuation over long distances
- 8-core fiber count for higher capacity and multi-line connectivity
- Figure-8 structure with integrated steel messenger wire for self-supporting aerial installation
- Tough HDPE (High-Density Polyethylene) outer sheath for UV, moisture, and abrasion resistance
- High tensile strength to withstand wind loads and mechanical stress
- Stable optical performance in harsh outdoor environments
- Corrosion-resistant materials for long service life
- Simple pole mounting using standard aerial hardware

Applications

- Aerial outdoor fiber optic infrastructure
- Long-distance backbone and distribution networks
- Fiber to the Building (FTTB) and industrial sites
- Rural broadband expansion projects
- LAN/WAN outdoor deployment
- Power grid and utility communication networks
- Multi-node aerial connections across suburban or remote areas



Want to know more about FiberCore?

For more information visit www.fibercore-plus.com or contact sales@fibercore-plus.com

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Technical Specifications

No. of Cable		8
Fiber Model		G.652D
Loose Tube	Material	PBT
	Diameter (±0.1) mm	2.6
	Thickness (±0.05) mm	0.40
Water Blocking layer (Material)		Water Blocking Tape
Armoring	Material	Steel Tape
	Thickness (±0.03) mm	0.25
Messenger Wire	Material	Galvanized steel strand
	Size (±0.05) mm	2.7mm (R7×0.9)
Web	Material	HDPE
	Size (±0.1) mm	2.0×3.0
Outer Sheath ^①	Material	HDPE
	Thickness (±0.1) mm	1.3
Outer Sheath ^②	Material	HDPE
	Thickness (±0.1) mm	1.5
Cable Diameter (±0.5) mm		7.1*15.4
Cable Weight (±10) kg/km		105
Min. bending radius	Without Tension	10.0×Cable-φ
	Under Maximum Tension	20.0×Cable-φ
Temperature range (°C)	Installation	-40~+70
	Transport&Storage	-40~+70
	Operation	-40~+70

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



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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 ≤0.22 dB/km ≤0.30dB/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 μm
Core / Clad concentricity error	≤0.5 μm
Cladding diameter	125.0 ± 0.7 μm
Cladding non-circularity	≤1.0%
Primary coating diameter	245 ± 10 μm
Proof test level	100 kpsi (=0.69 Gpa), 1%
Temperature dependence 0°C~ +70°C @ 1310 & 1550nm	≤ 0.1 dB/km

Ordering Information

Description	Part No.
GYXTC8S Outdoor Armored F8 Fiber Optic Cable G.652D 8 Core	FC-34-00220-Y8



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