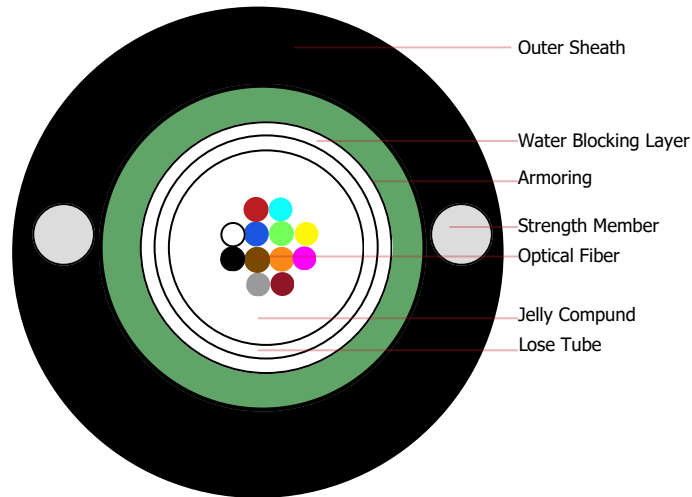


GYXTW OUTDOOR FIBER CABLE SM 12C G652D STEEL STRIP HDPE BLACK



Product Overview

The FiberCore GYXTW Outdoor Fiber Cable SM 12C G652D delivers reliable single-mode connectivity using low-loss G.652D fibers within a moisture-resistant loose tube structure. Reinforced with dual steel strip armor and a rugged black HDPE sheath, this cable ensures robust mechanical protection for 12-core outdoor backbone installations.

Features

- 12-core single-mode G.652D fibers for low-loss, long-distance data transmission.
- Moisture-resistant central loose tube structure for fiber protection and stability.
- Dual steel strip armor for enhanced crush resistance and mechanical durability.
- Dual steel strength members provide excellent tensile strength and structural support.
- UV-resistant and water-blocking HDPE outer sheath ensures long-term outdoor protection.
- Compact, lightweight design for easier handling and installation.
- Suitable for aerial and duct installations in harsh environments.

Applications

- Outdoor backbone and long-distance transmission networks.
- Industrial, telecom, and campus network infrastructure.
- FTTH feeder routes in access networks.
- Aerial and duct installations exposed to environmental stress.



Want to know more about FiberCore?

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

V1.0 - 09012025

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Technical Specifications

No. of Cable		12
Fiber Model		G.652D
Strength Member	Material	Steel Wire
	Diameter (± 0.05) mm	1.0
	NO	2
Lose Tube	Material	PBT
	Diameter (± 0.06) mm	2.5
	Thickness (± 0.03) mm	0.35
Water Blocking layer (Material)		Water Blocking Tape
Armoring	Material	Steel Strip
	Thickness (± 0.05) mm	0.25
Outer Sheath Thickness (± 0.2) mm		2.2
Outer Sheath (Material)		HDPE
Cable Diameter (± 0.2) mm		8.5
Cable Weight (± 10) kg/km		75
Min. bending radius	Without Tension	$10.0 \times \text{Cable-}\phi$
	Under Maximum Tension	$20.0 \times \text{Cable-}\phi$
Temperature range ($^{\circ}\text{C}$)	Installation	$-20 \sim +60$
	Transport & Storage	$-40 \sim +70$
	Operation	$-40 \sim +70$

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 ≤0.30 dB/km ≤0.21 dB/km ≤0.24 dB/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.
GYXTW Outdoor Armored Fiber Optic Cable G.652D SM 12 Core	FC-33-00213-Y12



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V1.0 - 09012025