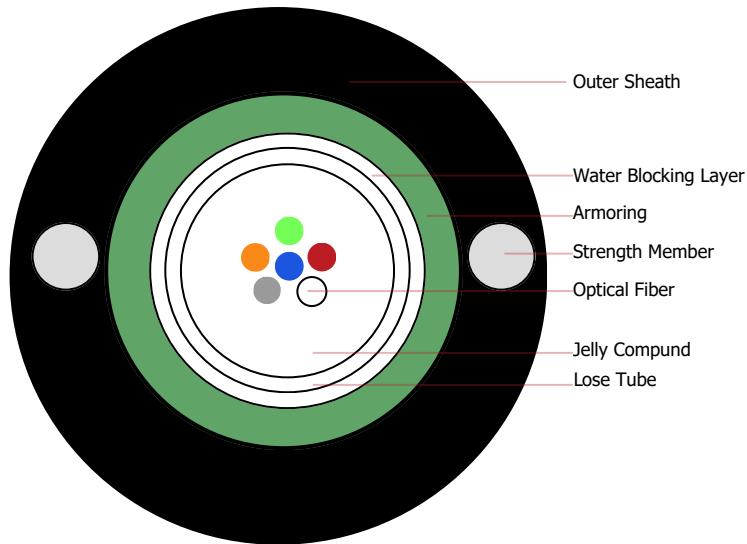


GYXTW OUTDOOR FIBER CABLE MM 6C OM2 STEEL STRIP HDPE BLACK



Product Overview

The GYXTW Outdoor Fiber Cable MM 6 core OM2 delivers reliable multimode fiber connectivity using OM2 fibers with low attenuation and high bandwidth performance. Engineered with dual steel wire strength members and corrugated steel strip armoring, this black HDPE-sheathed cable ensures rugged durability for 6-core outdoor deployments.

Features

- Multimode OM2 fibers for high-speed, high-bandwidth data transmission
- Low optical attenuation for reliable signal performance
- Dual steel wire strength members for added tensile strength
- Corrugated steel strip armor for enhanced mechanical protection
- Water-blocking tape to prevent moisture intrusion
- UV-resistant black HDPE outer sheath for outdoor durability
- 6-core fiber configuration for higher capacity installations
- Wide operating temperature range: -40°C to +70°C
- Designed for rugged, long-term outdoor use

Applications

- Outdoor backbone and LAN fiber optic installations
- Campus and enterprise network connectivity
- Industrial and utility environments requiring armored cabling
- Telecommunication links for multimode short to mid-range transmission



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		6
Fiber Model		OM2
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



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■ The properties of multi mode optical fiber (ITU-T Rec. G.651.1)

Characteristic	Condition	Data	Unit
Optical Properties			
Attenuation	850nm	≤2.3	dB/km
	1300nm	≤0.6	dB/km
Full injection bandwidth	850nm	≥500	MHz•Km
	1300nm	≥500	MHz•Km
Numerical aperture		0.200±0.015	
Zero dispersion wavelength		1295-1340	nm
A zero-dispersion slope	1295-1310	≤0.105	ps/(nm ² .km)
	1310-1340	≤0.000375	ps/(nm ² .km)
Group refractive index	850nm	1.482	
	1300nm	1.477	
The macro bend additional attenuation 100 Circle Φ75mm 4Circle Φ30mm	850nm	≤0.5	dB
	1300nm	≤0.5	dB
	850nm	≤1.0	dB
	1300nm	≤1.0	dB
Geometry Characteristics			
Core diameter		50±2.5	μm
Core roundness		≤5.0	
Cladding roundness		≤1.0	%
Cladding diameter		125.0±1.0	μm
Coating diameter		245±7	μm
Coating / package concentricity error		≤10.0	μm
Coating roundness		≤6.0	%
Core / package concentricity error		≤1.5	μm
Fiber length		≤17.6	Km/axis
Back scatter characteristics (1300nm)			
Steps (Mean value of two-way measurement)		≤0.1	dB
The irregularity of the length direction and the discontinuity of the point		≤0.1	dB
Attenuation in homogeneity		≤0.08	dB/km



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V1.0 - 09012025

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Environmental characteristics (850nm, 1300nm)			
Temperature additional attenuation	-60°C~+85°C	≤0.1	dB/km
Temperature-humidity cycle additional attenuation	-10°C~+85°C, 4%~98%Relative humidity	≤0.1	dB/km
Flooding additional attenuation	23°C, 30days	≤0.1	dB/km
Dry heat additional attenuation	85°C, 30days	≤0.1	dB/km
Hot and humid additional attenuation	85°C and 85% Relative humidity, 30 days	≤0.1	dB/km
Mechanical properties			
Screening tension		≥9.0	N
		≥1.0	%
		≥100	kpsi
Coating peeling force	Typical average Peak value	1.5	N
		≥1.3 ≤8.9	N
Dynamic fatigue parameters (Nd,Typical value)		27	

Ordering Information

Description	Part No.
GYXTW Outdoor Armored Fiber Optic Cable G.651.1 OM2 6 Core	FC-33-00211-06



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V1.0 - 09012025