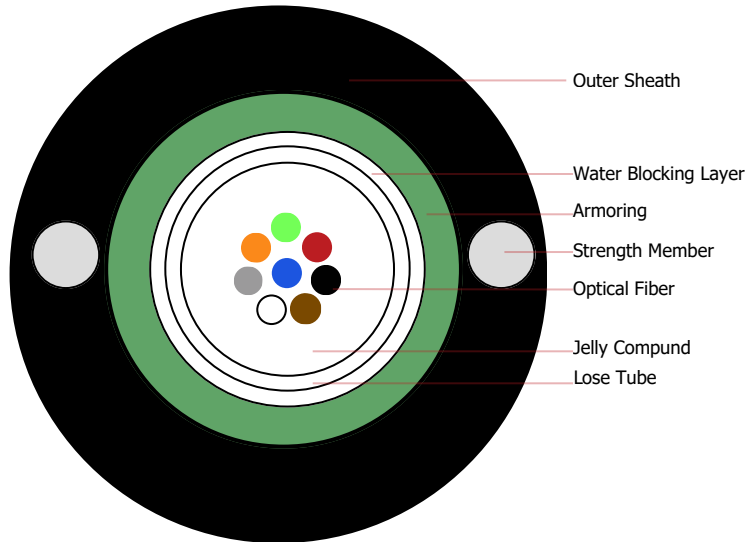


## GYXTW OUTDOOR FIBER CABLE MM 8C OM2 STEEL STRIP HDPE BLACK



### Product Overview

The GYXTW Outdoor Fiber Cable MM 8 Core OM2 provides stable multimode fiber connectivity using OM2 fibers optimized for low attenuation and high bandwidth. Featuring dual steel wire strength members and corrugated steel strip armoring, this black HDPE-sheathed cable ensures durable and protected 8-core performance in demanding outdoor environments.

### Features

- OM2 multimode fibers for high-speed, short-to-medium range data transmission
- Low attenuation and high bandwidth for efficient network performance
- 8-core configuration for expanded capacity and connectivity
- Dual steel wire strength members for enhanced tensile strength
- Corrugated steel strip armor for robust mechanical protection
- Water-blocking tape for moisture resistance
- UV-resistant black HDPE outer sheath suited for outdoor conditions
- Operating temperature range: -40°C to +70°C
- Durable and reliable structure ideal for harsh environments

### Applications

- Outdoor LAN and backbone network deployments
- Inter-building connectivity in campus and enterprise networks
- Industrial fiber optic infrastructure requiring armored protection
- Telecommunications systems supporting multimode transmission



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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### Technical Specifications

No. of Cable		8
Fiber Model		OM2
Strength Member	Material	Steel Wire
	Diameter ( $\pm 0.05$ ) mm	1.0
	NO	2
Lose Tube	Material	PBT
	Diameter ( $\pm 0.06$ ) mm	2.5
	Thickness ( $\pm 0.03$ ) mm	0.35
Water Blocking layer (Material)		Water Blocking Tape
Armoring	Material	Steel Strip
	Thickness ( $\pm 0.05$ ) mm	0.25
Outer Sheath Thickness ( $\pm 0.2$ ) mm		2.2
Outer Sheath (Material)		HDPE
Cable Diameter ( $\pm 0.2$ ) mm		8.5
Cable Weight ( $\pm 10$ ) kg/km		75
Min. bending radius	Without Tension	10.0×Cable- $\phi$
	Under Maximum Tension	20.0×Cable- $\phi$
Temperature range (°C)	Installation	-20~+60
	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				
Color	Red	Black				



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

Characteristic	Condition	Data	Unit
<b>Optical Properties</b>			
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 <sup>2</sup> .km)
	1310-1340	≤0.000375	ps/(nm <sup>2</sup> .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
<b>Geometry Characteristics</b>			
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
<b>Back scatter characteristics (1300nm)</b>			
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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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 <b>OM2 8 Core</b>	FC-33-00212-08



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