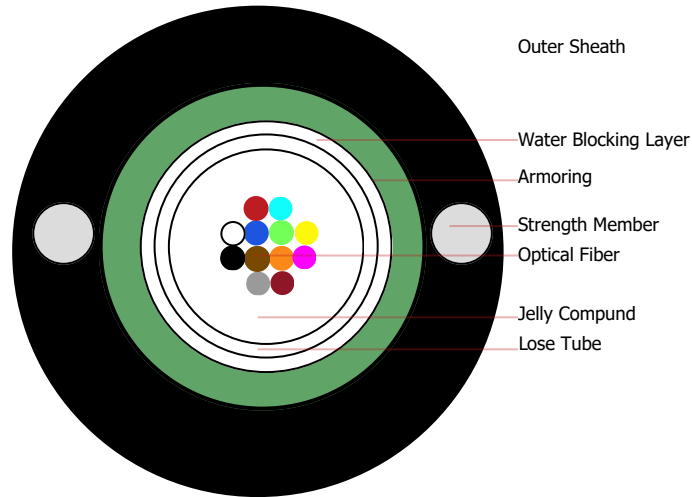


GYXTW OUTDOOR FIBER CABLE MM 12C OM2 STEEL STRIP HDPE BLACK



Product Overview

The GYXTW Outdoor Fiber Cable MM 12C OM2 ensures dependable multimode fiber connectivity using OM2 fibers optimized for low attenuation and high bandwidth. Designed with dual steel wire strength members and corrugated steel strip armor, this black HDPE-sheathed cable offers rugged performance for 12-core outdoor installations.

Features

- OM2 multimode fibers for reliable, high-bandwidth data transmission
- Low attenuation at 850nm and 1300nm for consistent performance
- 12-core fiber configuration for higher capacity and scalability
- Dual steel wire strength members for increased tensile durability
- Corrugated steel strip armoring for superior mechanical protection
- Water-blocking tape to safeguard against moisture penetration
- Black HDPE outer sheath for UV and environmental resistance
- Wide operating temperature range: -40°C to +70°C
- Engineered for long-term stability in outdoor conditions

Applications

- Outdoor backbone and distribution fiber networks
- High-density campus or enterprise interbuilding links
- Industrial and utility-grade outdoor fiber optic systems
- Multimode telecommunication lines requiring armored cable solutions



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		12
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×Cable-φ
	Under Maximum Tension	20.0×Cable-φ
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	9	10	11	12
Color	Red	Black	Yellow	Violet	Pink	Aqua



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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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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 12 Core	FC-33-00213-012



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