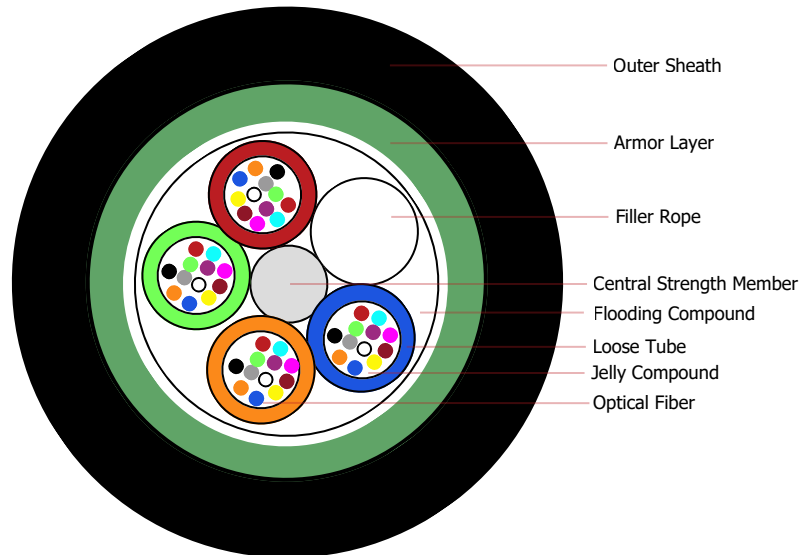


## GYTA OUTDOOR FIBER CABLE MM 48C OM2 ALUMINUM TAPE HDPE BLACK (STEEL WIRE 1.5MM)



### Product Overview

The GYTA Outdoor Fiber Cable 48C MM OM2 ensures high-capacity multimode connectivity using OM2 fibers optimized for low attenuation and high bandwidth. Built with a 1.5mm steel wire strength member and aluminum tape armoring, this black HDPE-sheathed cable delivers durable and efficient performance for large-scale 48-core outdoor installations.

### Features

- OM2 multimode fibers for high-bandwidth, short-to-mid range data transmission
- 48-core configuration for large-scale, high-capacity connectivity
- Low attenuation performance at 850nm and 1300nm wavelengths
- Central 1.5mm steel wire strength member for enhanced tensile support
- Aluminum tape armoring for lightweight yet reliable protection
- Water-blocking components to safeguard against moisture intrusion
- UV-resistant black HDPE sheath designed for harsh outdoor conditions
- Operational temperature range: -40°C to +70°C
- Ideal for high-density, long-distance fiber optic deployment

### Applications

- Large-scale outdoor backbone and distribution networks
- Enterprise and data center interconnects across multiple buildings
- Municipal and industrial fiber optic infrastructure requiring high fiber counts
- Multimode telecom networks needing durable and scalable cabling solutions



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		48
Fiber Model		OM2
Design (Strength Member+Tube & Filler)		1+5
Central Strength Member	Material	Steel Wire
	Diameter (±0.05) mm	1.5
LooseTube	Material	PBT
	Diameter (±0.06) mm	1.8
	Thickness (±0.05) mm	0.30
	The Max. Core NO./Tube	12
Water Blocking Layer (Material)		Flooding Compound
Moisture Barrier	Material	Aluminum Tape
	Thickness (±0.03) mm	0.25
Outer Sheath	Material	HDPE
	Thickness (±0.2) mm	1.7
Cable Diameter (±0.2) mm		9.5
Cable Weight (±10) kg/km		83
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

### Loose Tube Color

No.	1	2	3	4
Color	Blue	Orange	Green	Brown



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## GYTA OUTDOOR FIBER CABLE MM 48C OM2 ALUMINUM TAPE HDPE BLACK (STEEL WIRE 1.5MM)

### ■ 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 ≥1.0 ≥100	N % kpsi
Coating peeling force	Typical average Peak value	1.5 ≥1.3 ≤8.9	N N
Dynamic fatigue parameters (Nd,Typical value)		27	

### Ordering Information

Description	Part No.
GYTA Outdoor Armored Fiber Optic Cable G.651.1 <b>OM2 48 Core</b>	FC-33-00215-048



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