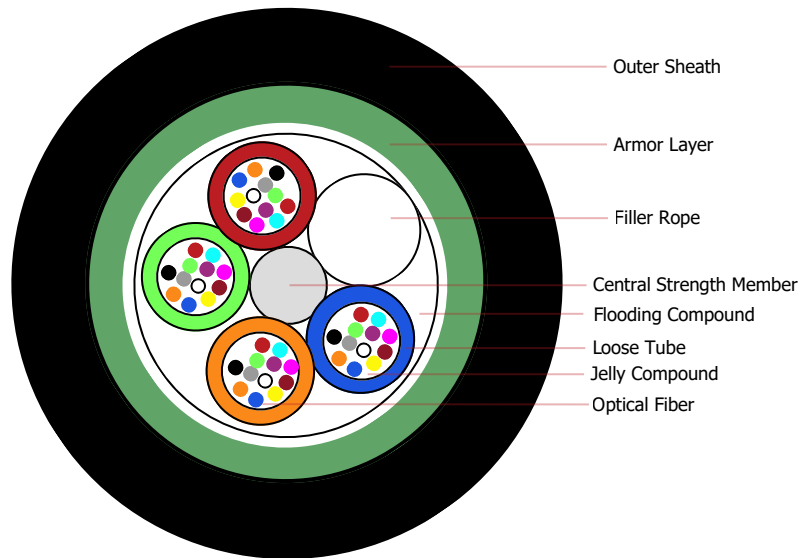


GYTA OUTDOOR FIBER CABLE MM 48C OM4-550 ALUMINUM TAPE HDPE BLACK (STEEL WIRE 1.5MM)



Product Overview

The FiberCore GYTA Outdoor Fiber Cable MM 48C OM4-550 delivers high-density 48-core multimode OM4 connectivity through a central loose tube design, optimized for large-scale backbone and distribution networks. Featuring corrugated aluminum tape armor, a 1.5mm central steel wire strength member, and a durable black HDPE outer sheath, this cable ensures superior mechanical durability and moisture resistance in rugged outdoor environments.

Features

- OM4-550 multimode fibers for ultra-high bandwidth and low attenuation
- 48-core multimode for ultra-high capacity data transmission.
- Central loose tube structure ensures fiber stability and moisture resistance..
- 1.5mm central steel wire strength member enhances tensile strength and structural support.
- UV-resistant and water-blocking black HDPE outer sheath for durable outdoor protection.
- Compact design simplifies handling and installation despite high core count.
- Suitable for aerial (with additional support) and duct installations in harsh environments.

Applications

- Outdoor backbone and high-density distribution networks.
- Large-scale industrial, campus, and metropolitan area networks (MAN).
- FTTH feeder routes requiring high fiber capacity.
- Aerial and duct installations exposed to environmental stress and mechanical loads.



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		48
Fiber Model		OM4-550
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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■ The properties of multi mode optical fiber (ITU-T Rec. G.651.1)

Characteristic	Condition	Data	Unit
Optical Properties			
Attenuation	850nm	≤2.7	dB/km
	1300nm	≤0.6	dB/km
Full injection bandwidth	850nm	≥3500	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, 30days	≤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 OM4-550 48 Core	FC-33-00215-M48



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