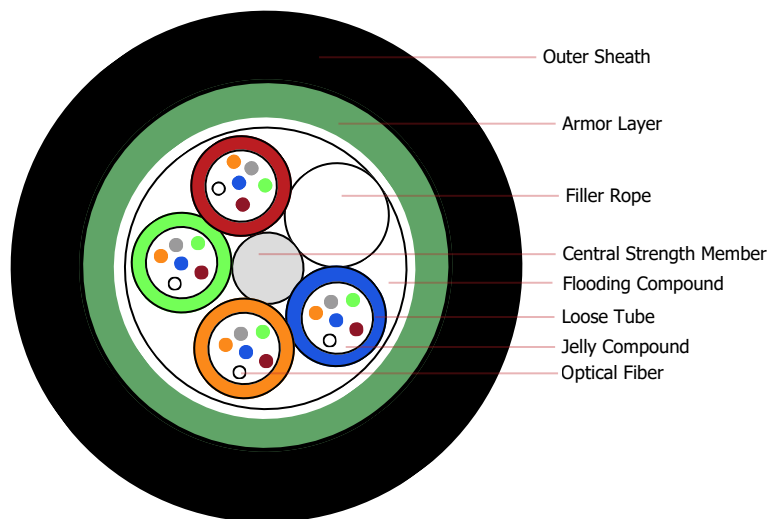


GYTA OUTDOOR FIBER CABLE 24C MM OM4-550 ALUMINUM TAPE HDPE BLACK (STEEL WIRE 1.5MM)



Product Overview

The FiberCore GYTA Outdoor Fiber Cable 24C MM OM4-550 offers high-capacity 24-core multimode OM4 connectivity with a central loose tube structure, ideal for backbone and access networks. Shielded with corrugated aluminum tape armor, 1.5mm central steel wire strength member, and a durable black HDPE sheath, this cable ensures robust mechanical protection and moisture resistance for demanding outdoor installations.

Features

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

Applications

- Outdoor backbone and distribution fiber optic networks.
- High-density connections for industrial zones and campus networks.
- FTTH feeder routes in access networks.
- Aerial and duct installations exposed to environmental stress.



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		24
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 $\Phi 75$ mm 4Circle $\Phi 30$ mm	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 24 Core	FC-33-00214-M24



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