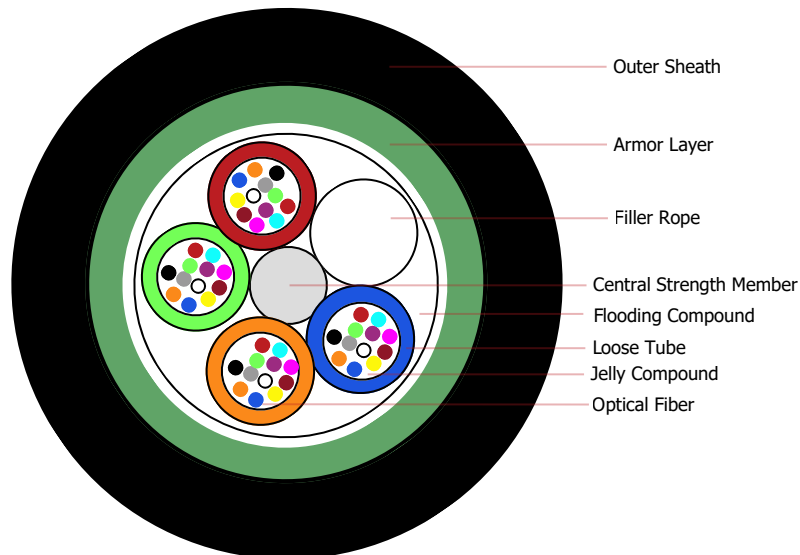


GYTA OUTDOOR FIBER CABLE SM 48C G652D ALUMINUM TAPE HDPE BLACK (STEEL WIRE 1.5MM)



Product Overview

The FiberCore GYTA Outdoor Fiber Cable SM 48C G652D delivers reliable single-mode connectivity using low-loss G.652D fibers within a moisture-resistant loose tube structure. Reinforced with corrugated aluminum tape armor, a 1.5mm central steel wire strength member, and a rugged black HDPE sheath, this cable ensures superior mechanical protection for 48-core outdoor backbone installations.

Features

- 48-core single-mode G.652D fibers for long-distance data transmission.
- Central loose tube with moisture-resistant design.
- Corrugated aluminum tape armor for crush resistance and shielding.
- 1.5mm central steel wire for tensile strength and structural support.
- UV-resistant, water-blocking HDPE outer sheath.
- Compact design for easier handling and installation.
- Suitable for aerial and duct installations.

Applications

- Outdoor backbone and distribution networks.
- Industrial, telecom, and campus infrastructures.
- FTTH feeder routes with high fiber capacity.
- Aerial and duct installations in harsh environments.



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		G.652D
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 single mode optical fiber (ITU-T Rec. G.652D)

Characteristic	Condition	Data	Unit
Optical Properties			
Attenuation	1310nm	≤0.35	dB/km
	1383nm	≤0.34	dB/km
	1550nm	≤0.21	dB/km
	1625nm	≤0.24	dB/km
Relative wavelength attenuation @1310nm @1550nm	1285~1330nm	≤0.03	dB/km
	1525~1575nm	≤0.02	dB/km
Dispersion in the wavelength range of	1550nm	≤18	ps/(nm.km)
Zero dispersion wavelength		1312±10	nm
A zero-dispersion slope zero-dispersion slope typical value		≤0.092	ps/(nm ² .km)
		0.086	ps/(nm ² .km)
Cable cut-off wavelength λ_{cc}		≤1260	nm
Mode field diameter MFD	1310nm	9.2±0.4	μm
	1550nm	10.4±0.5	μm
Effective group refractive index	1310nm	1.466	
	1550nm	1.467	
Attenuation discontinuities	1310nm	≤0.05	dB
	1550nm	≤0.05	dB
Geometric Characteristics			
Core diameter		124.8±0.7	μm
Cladding roundness		≤0.70	%
Coating diameter		245±5	μm
Coating / package concentricity error		≤12.0	μm
Coating no roundness		≤6.0	%
Core / package concentricity error		≤0.5	μm
The warpage (radius)		≥4	m
Environmental characteristics (1310nm, 1550nm, 1625nm)			
Temperature additional attenuation	-60°C ~+85°C	≤0.05	dB/km
Flooding additional attenuation	23°C, 30 days	≤0.05	dB/km
Hot and humid additional attenuation	85°C and 85% Relative humidity, 30 days	≤0.05	dB/km
Dry heat aging	85°C	≤0.05	dB/km



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**GYTA OUTDOOR FIBER CABLE SM 48C G652D ALUMINUM TAPE
HDPE BLACK (STEEL WIRE 1.5MM)**

Mechanical properties			
Screening tension		≥9.0	N
The macro bend Additional attenuation	1550nm	≤0.05	dB
1Circle Φ32mm	1310nm &1550nm	≤0.05	dB
100Circle Φ50mm	1625nm	≤0.05	dB
100Circle Φ60mm			
Coating peeling force	Typical average	1.5 ≥1.3 ≤8.9	N N
Dynamic fatigue parameters		≥20	

Ordering Information

Description	Part No.
GYTA Outdoor Armored Fiber Optic Cable G.652D SM 48 Core	FC-33-00215-Y48



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