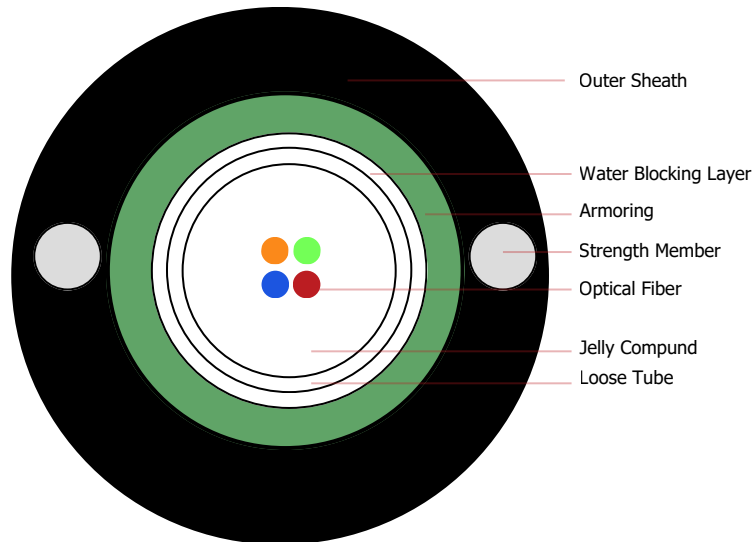


GYXTW OUTDOOR FIBER CABLE MM 4C OM2 STEEL STRIP HDPE BLACK



Product Overview

The GYXTW Outdoor Fiber Cable MM 4 Core OM2 delivers stable multimode connectivity using OM2 fibers, featuring low attenuation and high bandwidth performance. Reinforced with dual steel wire strength members and a corrugated steel strip armor, this black HDPE-sheathed cable ensures robust protection for demanding outdoor environments.

Features

- Multimode OM2 fibers for high-speed data transmission
- Low attenuation at 850nm (≤ 2.3 dB/km) and 1300nm (≤ 0.6 dB/km)
- Full injection bandwidth ≥ 500 MHz·km at both 850nm and 1300nm
- Dual steel wire strength members for added tensile durability
- Corrugated steel strip armor for mechanical protection
- Water blocking tape to prevent moisture ingress
- HDPE outer sheath for UV and environmental resistance
- Operating temperature range: -40°C to $+70^{\circ}\text{C}$
- Compact design with 4 fiber cores and a nominal cable diameter of 8.5mm
- Flame-resistant and rugged for long-term reliability in harsh environments

Applications

- Outdoor LAN and backbone fiber installations
- Enterprise and campus network interconnections
- Industrial environments requiring armored, durable cabling
- Telecommunication links for short to medium-range data transmission



Want to know more about FiberCore?

For more information visit www.fibercore-plus.com or contact sales@fibercore-plus.com

V1.0 - 09012025

GYXTW OUTDOOR FIBER CABLE MM 4C OM2 STEEL STRIP HDPE BLACK

Technical Specifications

No. of Cable		4
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
Color	Blue	Orange	Green	Brown



Want to know more about FiberCore?

For more information visit www.fibercore-plus.com or contact sales@fibercore-plus.com

V1.0 - 09012025

GYXTW OUTDOOR FIBER CABLE MM 4C OM2 STEEL STRIP HDPE BLACK

■ 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



Want to know more about FiberCore?

For more information visit www.fibercore-plus.com or contact sales@fibercore-plus.com

V1.0 - 09012025

GYXTW OUTDOOR FIBER CABLE MM 4C OM2 STEEL STRIP HDPE BLACK

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 4 Core	FC-33-00210-O4



Want to know more about FiberCore?

For more information visit www.fibercore-plus.com or contact sales@fibercore-plus.com

V1.0 - 09012025