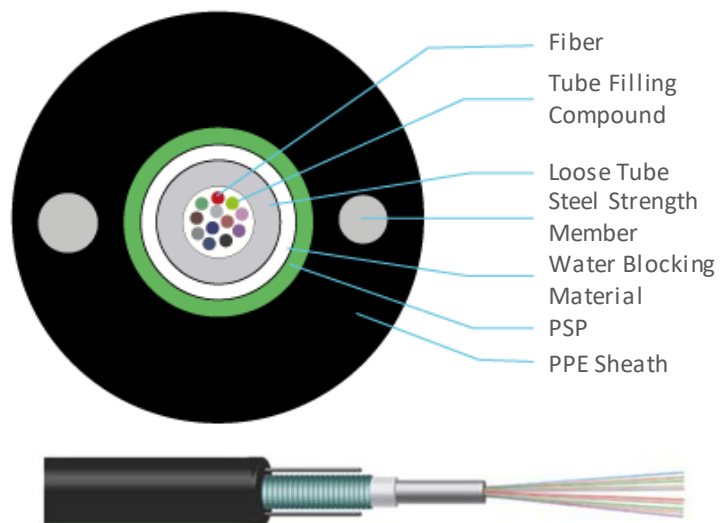


SM Armored Uni Tube Outdoor Fiber Optic Cable GYXTW-6 Core

GYXTW The fibers, 250µm, are positioned in a loose tube made of a high modulus plastic. The tubes are filled with a water-resistant filling compound. The tube is wrapped with a layer of PSP longitudinally. Between the PSP and the loose tube water-blocking material is applied to keep the cable compact and watertight. Two parallel steel wires are placed at the two sides of the steel tape. The cable is completed with a polyethylene (PE) sheath.



Products Characteristics

- Good mechanical and temperature performance
- High strength loose tube that is hydrolysis resistant
- Special tube filling compound ensure a critical protection of fiber
- Crush resistance and flexibility
- PSP enhancing moisture-proof
- Two parallel steel wires ensure tensile strength
- Small diameter, light weight and friendly installation
- Long delivery length

Complied Standards

- complies with Standard YD/T 769.
- RoHS Compliant

Key Feature

- Blocks water from entering the cable and damaging the optical fibers
- Provides crush resistance
- Resists degradation due to sunlight exposure
- Allows smaller cable diameter and lighter weight versus stranded tube design
- Supports 10 Gb/s applications while maintaining compatibility with existing 50µm multimode systems

Application

- Duct/Directly
- Buried/Aerial

Performance of Optical Fiber and Cable

No	Description	Performance Index	
1	Cladding Diameter	125±1µm	
2	Cladding Non-circularity	≤1.0%	
3	Cable Cut-off Wavelength	≤1260nm	
4	Zero-dispersion Avelength	1300-1324nm	
5	Zero-dispersion Slope	≤0.092ps/(Nm ² *km)	
6	Impact Resistance	Passes IEC794-1	
7	Solar Radiation Resistance	Passes IEC794-1	
8	Compound Flow	Passes IEC794-1	
9	Cyclic Flexing	Passes IEC794-1	
10	Specification	IEC 60794-1, EIA/TIA-455	
11	Cladding Diameter	125 ± 0.7 µm	
12	Clad Non-Circularity	≤ 0.7 %	
13	Core-Clad Concentricity Error	≤ 0.5 µm	
14	Primary Coating Material	Acrylate	
15	Primary Coating Diameter	245 ± 5 µm	
16	Secondary Color Coating Diameter	250 ± 10 µm	
17	Point Loss @ 1310nm & 1550nm	0.05 dB	
18	Zero Dispersion Wavelength	1302 – 1322 nm	
19	Mode Field Diameter	1310nm	9.2±0.4µm
		@1550	10.4 ± 0.5 µm
20	Attenuation	@1310nm	≤0.36db/Km
		@1550nm	≤0.22db/Km
21	Tensile Properties	Long-term	300n
		Short-term	800n
22	Compressive Properties	Long-term	300n
		Short-term	1000n
23	Bending Radius	Static	12.5d
		Dynamic	25d
24	Operating Temperature Range		- 40°C To + 70°C
25	Storage Temperature Range		- 40°C To + 70°C

Structure Size

Features	
Fiber Number	2, 4, 6 & 12 cores
Fiber Type	125/250 μ m
Diameter of loosetube	1.8 \pm 0.1mm
Metallic Reinforcement	2*0.7mm GFRP
Buffer Tube Material	PBT – Polybutylene Terephthalate
Buffer Tube Filling Material	Synthetic Thixotropic Gel
Armor Type	Corrugated
Armor Material	Steel Tape
Armor Thickness	0.15 mm
Sheath material	Black PE material
Sheath Thickness	2.0 \pm 0.2mm
Reference Diameter	7.4 \pm 0.2mm
Reference Weight	56 \pm 4kg/km
Outer Jacket Material	PE – Polyethylene Outer Jacket
Outer Jacket Color	Black
Overall Nominal Diameter	7.3 mm

Ordering Information

Part No	Name of items	Color	G.W (Kg)	N.W (Kg)
6235-4021BK	SM Armored Uni Tube Outdoor Fiber Optic Cable GYXTW-2 Core	Black	64	52
6235-4041BK	SM Armored Uni Tube Outdoor Fiber Optic Cable GYXTW-4 Core	Black	65	53
6235-4061BK	SM Armored Uni Tube Outdoor Fiber Optic Cable GYXTW-6 Core	Black	66	54
6235-4121BK	SM Armored Uni Tube Outdoor Fiber Optic Cable GYXTW-12 Core	Black	69	57