Outside Plant Cable

① Direct Buried Cable

Direct buried cable can be buried directly into the ground in a trench or using a vibratory plow. Except for with great water-blocking and moisture-proof performance, it also has good crushing and mechanical performance. With metallic central strength members, it offers ease of location while dielectric design eliminates grounding issues.

② Duct Cable

Duct cables are typically buried, and then the cables are air-blown, jetted, pulled or pushed into the duct. It features high tensile strength and excellent waterproof protection. Usually armored cables are installed under floors in data centers or in rocky soil, as well as to prevent rodent penetration.

③ Aerial Cable

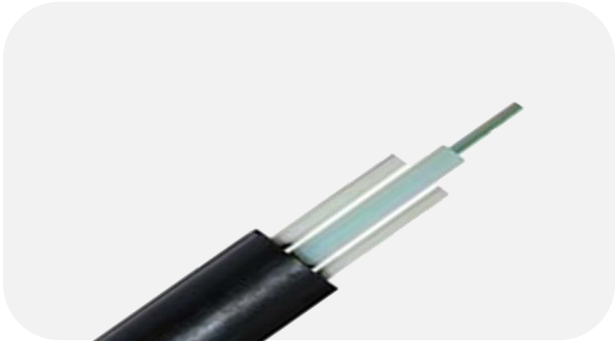
Aerial Cables are for outside installation on poles where consideration must be given to continual tension from the cable weight as well as wind and ice loads. It can be helically lashed to a messenger or another cable. Self-supporting cables use special hardware to handle the installed tension on the cables caused by the weight of the cables and environmental factors like wind.

Outdoor Cable

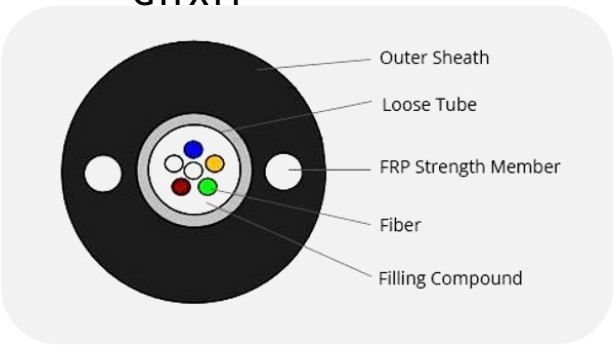
All-Dielectric Aerial Cables - GYFXTY

GYFXTY All-Dielectric Outdoor Cables use central loose tube structure, which are filled with water-resistant filling compound to provide crucial protection for the fiber. Over the tube, water-blocking material is applied to keep the cable watertight. Two parallel fiber reinforced plastic (FRP) are placed at the two sides. The cable is completed with a single PE sheath. It is especially suitable for installation in aerial for long-distance and bureau communication.

Central Loose Tube - GYFXTY



Inner Structure - GYFXTY



Features and Benefits

- Low dispersion and attenuation
- PE sheath protects cable from ultraviolet radiation
- Small diameter, light weight, and frendly installation
- Excellent mechanical and temperature resistant performance
- High strength loose tube itself has good hydrolysis resistant performance
- Two parallel non-metal strength has an excellent anti- electromagnet ability

Application

- Aerial application
- Trunk power transmission system
- Access network and local network
- Electromagnetic interfering places
- Adopted to outdoor distribution, lightning protection

Technical Specification

Parameter	Unit	Life Cycle	2F	4F	6F	8F	12F	24F
Minimum Tensile Strength	N	short term	1200	1200	1200	1200	1200	1200
		long term	1500	1500	1500	1500	1500	1500
Minimum Crush Load	N/100mm	short term	600	600	600	600	600	600
		long term	300	300	300	300	300	300
Minimum Bending Radius	MM	short term	20D	20D	20D	20D	20D	20D
		long term	10D	10D	10D	10D	10D	10D
Storage Temperature	℃	-40 to +60						

Optical Characteristic

Parameter	Unit	G.652		50/125μm		62.5/125μm	
Attenuation	dB/km	1310nm	≤0.36	850nm	≤3.0	850nm	≤3.0
		1550nm	≤0.22	1300nm	≤1.0	1300nm	≤1.0
Bandwidth	MHz-km			850nm	≥600	850nm	≥200
				1300nm	≥1200	1300nm	≥600
Numerical Aperture	NA			0.200±0.015		0.275±0.015	
Cable Cut-off Wavelength	λcc (nm)		≤1260				

Order Information

Fiber Count	Part Number	Application	Cable Diameter (mm)	Weight (kg/km)
		Singlemode 9/125 OS2		
2F	GYFXTY-OS2-2F	Aerial	7.2	75
4F	GYFXTY-OS2-4F	Aerial	7.2	75
6F	GYFXTY-OS2-6F	Aerial	7.2	75
8F	GYFXTY-OS2-8F	Aerial	7.2	75
12F	GYFXTY-OS2-12F	Aerial	7.2	75
24F	GYFXTY-OS2-24F	Aerial	7.2	75
		Multimode 62.5/125 OM1		
2F	GYFXTY-OM1-2F	Aerial	7.2	75
4F	GYFXTY-OM1-4F	Aerial	7.2	75
6F	GYFXTY-OM1-6F	Aerial	7.2	75
8F	GYFXTY-OM1-8F	Aerial	7.2	75
12F	GYFXTY-OM1-12F	Aerial	7.2	75
24F	GYFXTY-OM1-24F	Aerial	7.2	75
		Multimode 50/125 OM2		
2F	GYFXTY-OM2-2F	Aerial	7.2	75
4F	GYFXTY-OM2-4F	Aerial	7.2	75
6F	GYFXTY-OM2-6F	Aerial	7.2	75
8F	GYFXTY-OM2-8F	Aerial	7.2	75

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