

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

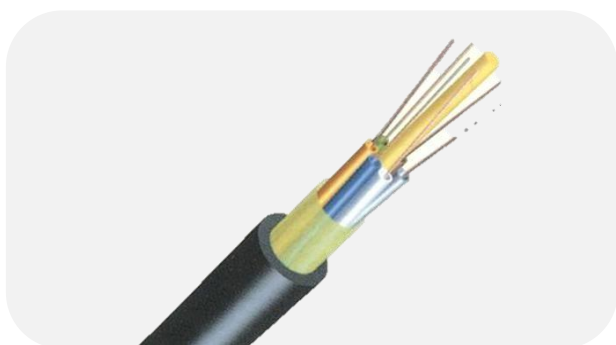
Aerial Cables are for outside installation on poles where consideration must be given to continual tension from the cable weight as well as wind and ice loads. It can be helically lashed to a messenger or another cable. Self-supporting cables use special hardware to handle the installed tension on the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

Outdoor Cable

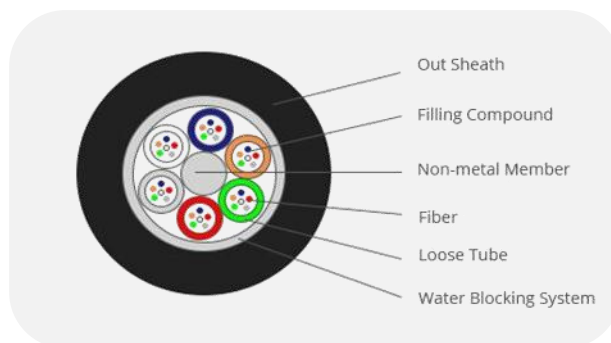
Non-armored Single-jacket Waterproof Outdoor Cable

GYFTY Non-armored Stranded Loose Tube Cable features FRP as the central member, ensuring the resistance to electromagnetic interference. High strength loose tube is hydrolysis resistant and the tube filling compound ensures a critical protection of the fiber. The water-blocking material between a single polyethylene (PE) jacket and the loose tube is applied to keep the cable compact and watertight. It is suitable for aerial and duct installation, especially operating in electrical system or frequently lightning areas.

Non-armored Duct Cable-GYFTY



Inner Structure-GYFTY



Features and Benefits

- Low dispersion and attenuation
- Light weight and small diameter, easy to lay
- Excellent mechanical and temperature performance
- FRP ensuring resistance to electromagnetic interference
- Water blocking system ensures reliable waterproof performance
- Non-metal central strength has a excellent anti-electromagnetic ability

Application

- Aerial & Duct application
- Outdoor distribution
- Long Haul Networking
- Trunking Line Direct to Telecommunications Closet
- Applied in high electromagnetic interfering and frequently lightning areas

Technical Specification

Parameter	Unit	Life Cycle	2-24F	36F	48-72F	96F	144F
Minimum Tensile Strength	N	short term	1000	1500	1500	1500	1500
		long term	400	600	600	600	1000
Minimum Crush Load	N/100mm	short term	1000	1000	1000	1000	1000
		long term	300	300	300	300	300
Minimum Bending Radius	MM	short term	20D	20D	20D	20D	20D
		long term	10D	10D	10D	10D	10D
Storage Temperature	°C	-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	

Order Information

Fiber Count	Part Number	Application	Cable Diameter (mm)	Weight (kg/km)
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Singlemode 9/125 OS2

2 F	GYFTY-OS2-2F	Aerial & Duct	9.5	89
4 F	GYFTY-OS2-4F	Aerial & Duct	9.5	89
6 F	GYFTY-OS2-6F	Aerial & Duct	9.5	89
8 F	GYFTY-OS2-8F	Aerial & Duct	9.5	89
12 F	GYFTY-OS2-12F	Aerial & Duct	9.5	89
24 F	GYFTY-OS2-24F	Aerial & Duct	9.5	89
36 F	GYFTY-OS2-36F	Aerial & Duct	10.0	89
48 F	GYFTY-OS2-48F	Aerial & Duct	10.0	91
72 F	GYFTY-OS2-96F	Aerial & Duct	12.0	98
96 F	GYFTY-OS2-96F	Aerial & Duct	12.0	103

Multimode 62.5/125 OM1

2F	GYFTY-OM1-2F	Aerial & Duct	9.5	95
4F	GYFTY-OM1-4F	Aerial & Duct	9.5	95
6F	GYFTY-OM1-6F	Aerial & Duct	9.5	105
8F	GYFTY-OM1-8F	Aerial & Duct	9.5	120
12F	GYFTY-OM1-12F	Aerial & Duct	9.5	95
24F	GYFTY-OM1-24F	Aerial & Duct	9.5	95
36F	GYFTY-OM1-36F	Aerial & Duct	10.0	89

48F	GYFTY-OM1-48F	Aerial & Duct	10.0	91
72F	GYFTY-OM1-96F	Aerial & Duct	12.0	98
96F	GYFTY-OM1-144F	Aerial & Duct	12.0	103

Multimode 50/125 OM2

2F	GYFTY-OM2-2F	Aerial & Duct	9.5	95
4F	GYFTY-OM2-4F	Aerial & Duct	9.5	95
6F	GYFTY-OM2-6F	Aerial & Duct	9.5	95
8F	GYFTY-OM2-8F	Aerial & Duct	9.5	95
12F	GYFTY-OM2-12F	Aerial & Duct	9.5	95
24F	GYFTY-OM2-24F	Aerial & Duct	9.5	95
36F	GYFTY-OM2-36F	Aerial & Duct	10.0	89
48F	GYFTY-OM2-48F	Aerial & Duct	10.0	91
72F	GYFTY-OM2-96F	Aerial & Duct	12.0	98
96F	GYFTY-OM2-144F	Aerial & Duct	12.0	103

Multimode 50/125 OM3

2F	GYFTY-OM3-2F	Aerial & Duct	9.5	95
4F	GYFTY-OM3-4F	Aerial & Duct	9.5	95
6F	GYFTY-OM3-6F	Aerial & Duct	9.5	95
8F	GYFTY-OM3-8F	Aerial & Duct	9.5	95
12F	GYFTY-OM3-12F	Aerial & Duct	9.5	95
24F	GYFTY-OM3-24F	Aerial & Duct	9.5	95

36F	GYFTY-OM3-36F	Aerial & Duct	10.0	89
48F	GYFTY-OM3-48F	Aerial & Duct	10.0	91
72F	GYFTY-OM3-96F	Aerial & Duct	12.0	98
96F	GYFTY-OM3-144F	Aerial & Duct	12.0	103
144F	GYFTY-OM3-144F	Aerial & Duct	15.5	200

Multimode 50/125 OM4

2F	GYFTY-OM4-2F	Aerial & Duct	9.5	95
4F	GYFTY-OM4-4F	Aerial & Duct	9.5	95
6F	GYFTY-OM4-6F	Aerial & Duct	9.5	105
8F	GYFTY-OM4-8F	Aerial & Duct	9.5	120
12F	GYFTY-OM4-12F	Aerial & Duct	9.5	95
24F	GYFTY-OM4-24F	Aerial & Duct	9.5	95
36F	GYFTY-OM4-36F	Aerial & Duct	10.0	89
48F	GYFTY-OM4-48F	Aerial & Duct	10.0	91
72F	GYFTY-OM4-72F	Aerial & Duct	12.0	98
96F	GYFTY-OM4-96F	Aerial & Duct	12.0	103
144F	GYFTY-OM4-144F	Aerial & Duct	15.5	200



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