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

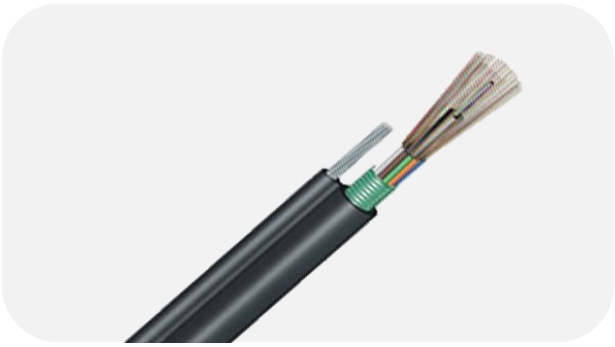
Aerial Cables are for outside installation on poles where consideration muszt be given to continual tension from the cable weight as well as wind and ice loads. It can be helically lashed to a messenger or another cable. Self-supporting cables use special hardware to handle the installed tension on the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

Outdoor Cable

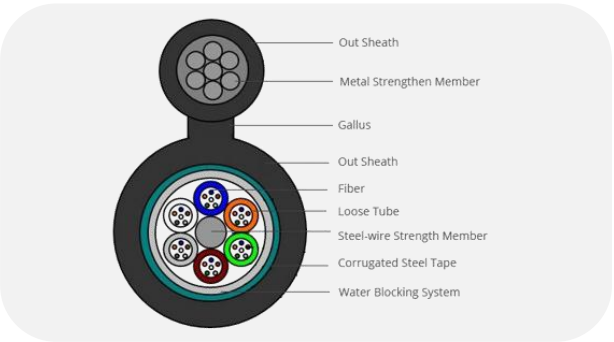
Stranded Loose Tube Self-supporting Aerial Cables - GYTC8S

GYTC8S is a typical self-supporting outdoor fiber optical cable. The mental strength member is made up of stranded wires as the supporting part are completed with a PE sheath to be figure 8 structure. Corrugated steel tape armored and PE outer sheath providing crush resistance. It's suitable for installation in aerial, used for long distance and LAN communication systems.

Stranded Loose Tube GYTC8S



Inner Structure GYTC8S



Features and Benefits

- Small cable diameter, figure 8 structure
- Self-supporting stranded wires, easily to install
- Excellent mechanical and environmental performance
- Low dispersion and attenuation
- Steel-wire strength member ensures tensile strength
- Corrugated steel tape and the PE outer sheath ensure crush resistance
- Water blocking system to improve the water proof ability

Application

- Outdoor aerial application
- Used for long-haul and LAN communication
- Subscriber network systems
- Junction communication systems
- CATV & Computer networks system

Technical Specification

Parameter	Unit	Life Cycle	2-24F	36F	48F	72F	96F
Minimum Tensile Strength	N	short term	3000	3000	3000	3000	3000
		long term	1000	1000	1000	1000	1000
Minimum Crush Load	N/10mm	short term	3000	3000	3000	3000	3000
		long term	1000	1000	1000	1000	1000
Minimum Bending Radius	MM	short term	20D	20D	20D	20D	20D
		long term	10D	10D	10D	10D	10D
Storage Temperature	℃	-40 to +60					

Optical Characteristic

Parameter	Unit	G.652		62.5/125μm		50/125μm	
Attenuation	dB/km	1310nm	≤0.36	850nm	≤3.0	850nm	≤3.0
		1550nm	≤0.22	1310nm	≤1.0	1310nm	≤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	GYTC8S-OS2-2F	Aerial	6.5*10.5	215
4F	GYTC8S-OS2-4F	Aerial	6.5*10.5	215
6F	GYTC8S-OS2-6F	Aerial	6.5*10.5	215
8F	GYTC8S-OS2-8F	Aerial	6.5*10.5	215
12F	GYTC8S-OS2-12F	Aerial	6.5*10.5	215
24F	GYTC8S-OS2-24F	Aerial	6.5*10.5	215
36F	GYTC8S-OS2-36F	Aerial	6.5*10.5	215
48F	GYTC8S-OS2-48F	Aerial	6.5*10.5	220
72F	GYTC8S-OS2-72F	Aerial	6.5*10.5	240
96F	GYTC8S-OS2-96F	Aerial	6.5*10.5	260
		Multimode 62.5/125 OM1		
2F	GYTC8S-OM1-2F	Aerial	6.5*10.5	215
4F	GYTC8S-OM1-4F	Aerial	6.5*10.5	215
6F	GYTC8S-OM1-6F	Aerial	6.5*10.5	215
8F	GYTC8S-OM1-8F	Aerial	6.5*10.5	215
12F	GYTC8S-OM1-12F	Aerial	6.5*10.5	215
24F	GYTC8S-OM1-24F	Aerial	6.5*10.5	215
36F	GYTC8S-OM1-36F	Aerial	6.5*10.5	215
48F	GYTC8S-OM1-48F	Aerial	6.5*10.5	220
72F	GYTC8S-OM1-72F	Aerial	6.5*10.5	240
96F	GYTC8S-OM1-96F	Aerial	6.5*10.5	260

Multimode 50/125 OM2

2F	GYTC8S-OM2-2F	Aerial	6.5*10.5	215
4F	GYTC8S-OM2-4F	Aerial	6.5*10.5	215
6F	GYTC8S-OM2-6F	Aerial	6.5*10.5	215
8F	GYTC8S-OM2-8F	Aerial	6.5*10.5	215
12F	GYTC8S-OM2-12F	Aerial	6.5*10.5	215
24F	GYTC8S-OM2-24F	Aerial	6.5*10.5	215
36F	GYTC8S-OM2-36F	Aerial	6.5*10.5	215
48F	GYTC8S-OM2-48F	Aerial	6.5*10.5	220
72F	GYTC8S-OM2-72F	Aerial	6.5*10.5	240
96F	GYTC8S-OM2-96F	Aerial	6.5*10.5	260

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