

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

Armored Central Loose Tube Self-supporting Aerial Cables - GYXTC8S

The cable core is composed of loose tubes each with up to 2-24 fibers. The metal strength member is made up of stranded wires as the supporting part are completed with a polyethylene(PE) sheath to be figure 8 structure. High strength loose tube that is hydrolysis resistant. GYXTC8Y is an ideal self-supporting outdoor cable,used for aerial installation.

Central Loose Tube - GYXTC8S



Inner Structure - GYXTC8S



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
- 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	2F	4F	6F	8F	12F	24F
Minimum Tensile Strength	N	short term	1500	1500	1500	1500	1500	1500
		long term	200	200	200	200	200	200
Minimum Crush Load	N/100mm	short term	1200	1200	1200	1200	1200	1200
		long term	200	200	200	200	200	200
Minimum Bending Radius	MM	short term	20D	20D	20D	20D	20D	20D
		long term	10D	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	
Cable Cut-off Wavelength	$\lambda_{cc}(nm)$	≤1260	-	-		-	

Order Information

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

2F	GYXTC8S-OS2-2F	Aerial	3.8*5.5	70
4F	GYXTC8S-OS2-4F	Aerial	3.8*5.5	70
6F	GYXTC8S-OS2-6F	Aerial	3.8*5.5	70
8F	GYXTC8S-OS2-8F	Aerial	3.8*5.5	70
12F	GYXTC8S-OS2-12F	Aerial	3.8*5.5	70
24F	GYXTC8S-OS2-24F	Aerial	3.8*5.5	70

Multimode 62.5/125 OM1

2F	GYXTC8S-OM1-2F	Aerial	3.8*5.5	70
4F	GYXTC8S-OM1-4F	Aerial	3.8*5.5	70
6F	GYXTC8S-OM1-6F	Aerial	3.8*5.5	70
8F	GYXTC8S-OM1-8F	Aerial	3.8*5.5	70
12F	GYXTC8S-OM1-12F	Aerial	3.8*5.5	70
24F	GYXTC8S-OM1-24F	Aerial	3.8*5.5	70

Multimode 50/125 OM2

2F	GYXTC8S-OM2-2F	Aerial	3.8*5.5	70
4F	GYXTC8S-OM2-4F	Aerial	3.8*5.5	70
6F	GYXTC8S-OM2-6F	Aerial	3.8*5.5	70
8F	GYXTC8S-OM2-8F	Aerial	3.8*5.5	70
12F	GYXTC8S-OM2-12F	Aerial	3.8*5.5	70
24F	GYXTC8S-OM2-24F	Aerial	3.8*5.5	70



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