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

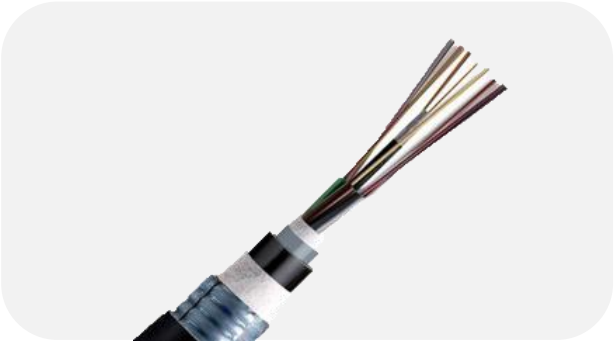
Aerial Cables are for outside installation on poles where consideration must be given to continual tension from the cable weight as well as wind and ice loads. It can be helically lashed to a messenger or another cable. Self-supporting cables use special hardware to handle the installed tension on the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

Outside Plant Cable

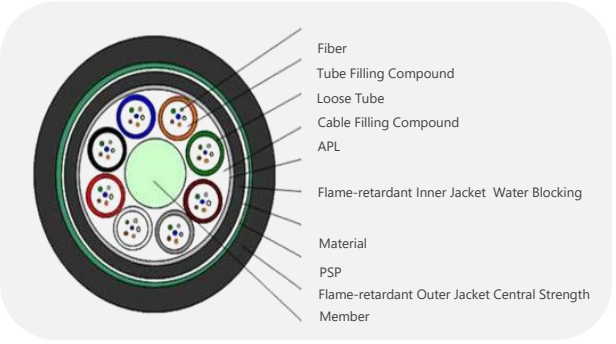
Flame-retardant, Double-Armored Direct Buried Cables-GYFTZA53

GYFTZA53 use fiber reinforced plastic as central strength member to improve the tensile strength. The armor structure is with APL sheath longitudinally covered with corrugated steel-tape armored polyethylene outer sheath, which provide good crush resistance performance and moisture proof ability. Applied with LSZH flammability rating outer Jacket, the cable has good flame-retardant performance. A layer of water- blocking material is also applied around the cable core to prevent water ingress.

Direct Buried Cable GYFTZA53



Inner Structure-GYFTZA53



Features and Benefits

- Low attenuation and dispersion
- FRP central strength member
- Stranded loose tube improves the tensile strength
- Double-jacket structure enusres moisture resistance and crush resistance
- Steel tape and aluminum tape enhances water-blocking & moisture-proof performance

Application

- Duct and buried laying method
- Specially used where good flame- retardant performance expected
- Long distance and local area network communication

Technical Specification

Parameter	Unit	Life Cycle	2F	4F	6F	8F	12F	24F
Minimum Tensile Strength	N	short term	3000	3000	3000	3000	3000	short term
		long term	1000	1000	1000	1000	1000	long term
Minimum Crush Load	N/100mm	short term	3000	3000	3000	3000	3000	short term
		long term	1000	1000	1000	1000	1000	long term
Minimum Bending Radius	MM	short term	20D	20D	20D	20D	20D	short term
		long term	10D	10D	10D	10D	10D	long term
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	-		0.275±0.015		0.200±0.015	
Cable Cut-off Wavelength	λcc(nm)	≤1260		-		-	

Order Information

Flame-retardant, Double-Armored Direct Buried Cables-GYFTZA53

Fiber Count	Part Number	Application	Cable Diameter (mm)	Weight (kg/km)
		Singlemode 9/125 OS2		
2F	GYFTZA53-OS2-2F	Direct Buried	14	210
4F	GYFTZA53-OS2-4F	Direct Buried	14	210
6F	GYFTZA53-OS2-6F	Direct Buried	14	210
8F	GYFTZA53-OS2-8F	Direct Buried	14	210
12F	GYFTZA53-OS2-12F	Direct Buried	14	210
24F	GYFTZA53-OS2-24F	Direct Buried	14	210
36F	GYFTZA53-OS2-36F	Direct Buried	14	210
48F	GYFTZA53-OS2-48F	Direct Buried	15.1	241
72F	GYFTZA53-OS2-72F	Direct Buried	15.1	241
96F	GYFTZA53-OS2-96F	Direct Buried	17.1	290

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