

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.

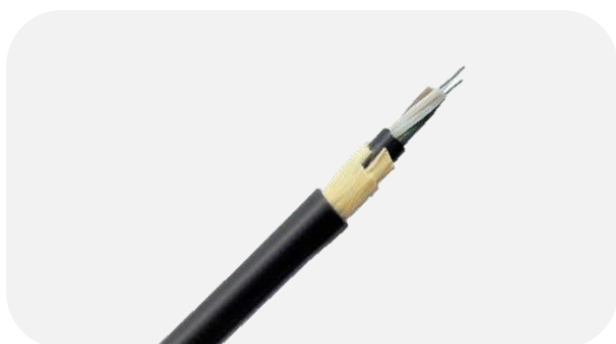
Outdoor Cable

Double-Armored Double-Jacket Direct Buried Cables-GYTA53

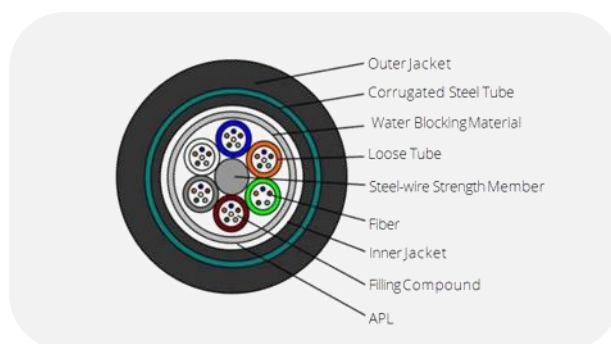
GYTA53 uses metal strength member as central strength member to provide excellent strain performance of the cable. Double-jacket structure provide the cable nice properties of moisture resistance and crush resistance.

Double armor structure provides cable good property of rodent-resistance. A layer of water-blocking material is applied around the cable core to prevent water ingress. It can be used for duct and direct buried application.

Direct Buried Cable-GYTA53



Inner Structure-GYTA53



Features and Benefits

- Good mechanical and temperature performance
- Stranded loose tube improves the tensile strength
- Metal strength member provides excellent strain performance
- Double-jacket structure ensures moisture resistance and crush resistance
- Steel tape and aluminum tape enhances water-blocking & moisture-proof performance PE or AT sheath ensures safety of cable in high voltage environment

Application

- Used for duct and buried laying method
- Adopted to outdoor distribution
- Specially used where good mechanical performance and rodent resistance are expected

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/100mm	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	°C	-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	λ _{cc} (nm)	≤1260		-		-	

Order Information

Fiber Count	Part Number	Application	Cable Diameter (mm)	Weight (kg/km)
Singlemode 9/125 OS2				
2F	GYTA53-OS2-2F	Direct Buried	12.5	200
4F	GYTA53-OS2-4F	Direct Buried	12.5	200
6F	GYTA53-OS2-6F	Direct Buried	12.5	200
8F	GYTA53-OS2-8F	Direct Buried	12.5	200
12F	GYTA53-OS2-12F	Direct Buried	12.5	200
24F	GYTA53-OS2-24F	Direct Buried	12.5	200
36F	GYTA53-OS2-36F	Direct Buried	12.5	200
48F	GYTA53-OS2-48F	Direct Buried	12.5	210
72F	GYTA53-OS2-72F	Direct Buried	14	210
96F	GYTA53-OS2-96F	Direct Buried	14.5	230
Multimode 62.5/125 OM1				
2F	GYTA53-OM1-2F	Direct Buried	12.5	200
4F	GYTA53-OM1-4F	Direct Buried	12.5	200
6F	GYTA53-OM1-6F	Direct Buried	12.5	200
8F	GYTA53-OM1-8F	Direct Buried	12.5	200
12F	GYTA53-OM1-12F	Direct Buried	12.5	200
24F	GYTA53-OM1-24F	Direct Buried	12.5	200
36F	GYTA53-OM1-36F	Direct Buried	12.5	200
48F	GYTA53-OM1-48F	Direct Buried	12.5	210

72F	GYTA53-OM1-72F	Direct Buried	14	210
96F	GYTA53-OM1-96F	Direct Buried	14.5	230
Multimode 50/125 OM2				
2F	GYTA53-OM2-2F	Direct Buried	12.5	200
4F	GYTA53-OM2-4F	Direct Buried	12.5	200
6F	GYTA53-OM2-6F	Direct Buried	12.5	200
8F	GYTA53-OM2-8F	Direct Buried	12.5	200
12F	GYTA53-OM2-12F	Direct Buried	12.5	200
24F	GYTA53-OM2-24F	Direct Buried	12.5	200
36F	GYTA53-OM2-36F	Direct Buried	12.5	200
48F	GYTA53-OM2-48F	Direct Buried	12.5	210
72F	GYTA53-OM2-72F	Direct Buried	14	210
96F	GYTA53-OM2-96F	Direct Buried	14.5	230



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