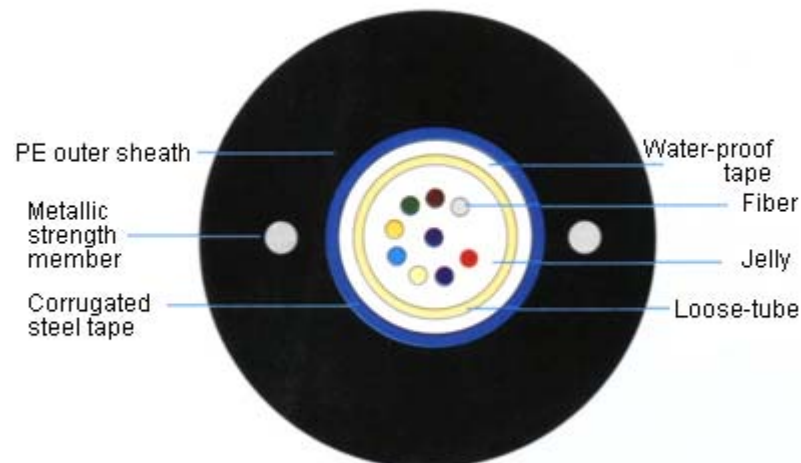


Outdoor Fiber Cables

Optical Fiber Cable Workshop Pictures:



GYXTW Central Tube Optical Fiber Cable



Properties

- Waterproofing layer providing strong water-resistance performance.
- Steel tape with PE outer sheathing and metallic strengthening member enhancing anti-crush and tensile

property of cable.

☛ **Applicable fields**

- Long-distance communication and LAN

☛ **Recommended layings methods**

- Aerial

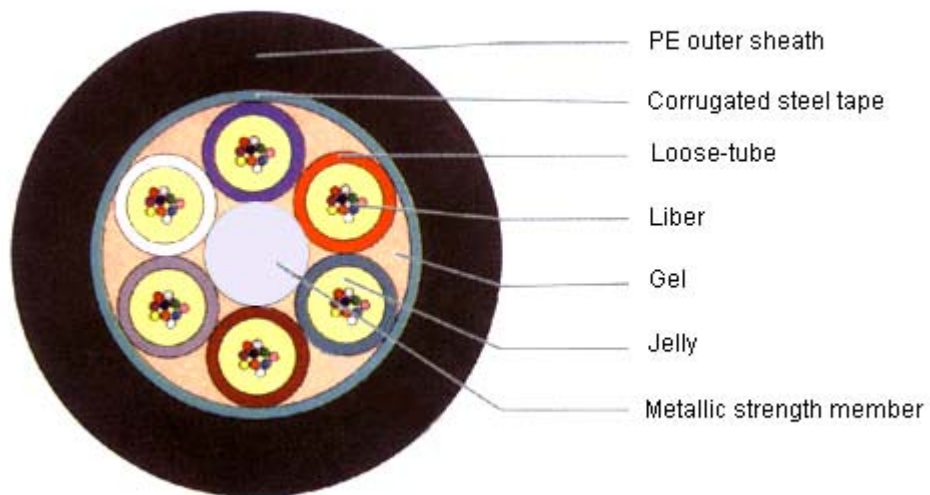
☛ **Structure configurations**

- Waterproofing layer between the steel tape and cable core.
- Double-sided PE corrugated steel tape with PE sheath
- Parallel double steel wire as strengthening member
- Note: We can design oval cross section and non-metallic structure on demand, e.g.:GYXTEW,GYFXTW,GYFXTEW.etc...

☛ **Technical data**

	GYXTW		
	Filled communicationused outdoor	Double steel wire strong Central tube type	Fiber cable
No. of fiber	2-12		
Outer dia.	9.0-11		
No of steel wire×diameter	2×1.2 2×1.5		
Tensil strength resistance(shortterm)	≥1500		
S.P.resistance (N/100mm ²)	≥1000		
Crusit resistance	5N.m×5		
Permissible bending radius	20 times as outer dia. of fiber cable		
Temperature	-40℃ ~ +60℃ range the additional loss of fiber cable a≤0.1dB/2km		
Weight (kg/km)	100-120		
Longitudinal waterproof	No water seepage for 3m samples in 1m water head for 24h		
Properties	Light weight,low price,suitable for overhead,duct laying		

GYTS Loose Tube Optical Cable



► Properties

- Armored steel tape providing maximum anti-PE outer sheath
- Air gun bullet resistant

► Applicable fields

- Long-distance communication and LAN

► Recommended layings methods

- Aerial, Duct

Structure configurations

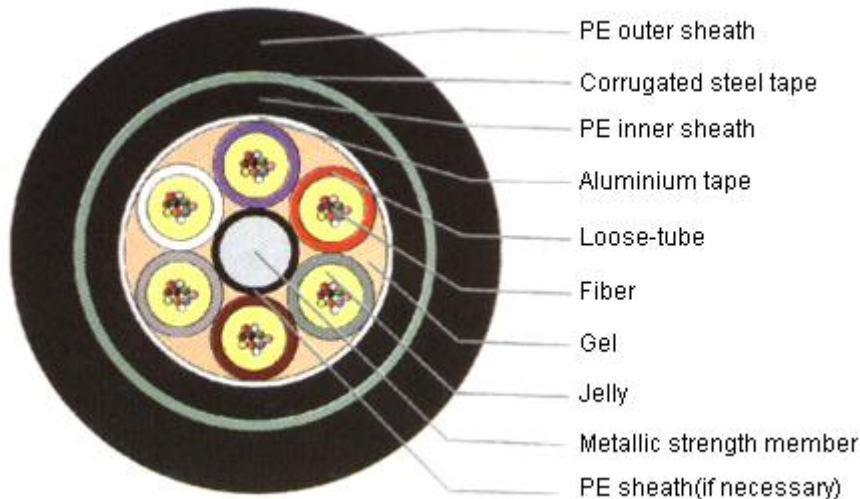
- Metallic strengthening member (phosphated steel wire)
- Double-sided PE corrugated steel tape-PE outer sheath

Technical data

Fiber range	Cable outer diameter (MM)	Cable weight (kg/km)	Min.bending radius(MM)		Allowable tension(N)		Max.crush loading force (N/100mm)	
			Static	Dynamic	Short term	Long term	Short term	Long term
2-24	11.4	150	10times cable diameter	20times cable diameter	2000	1000	2000	1000
26-36	12.0	185						
38-60	13.0	200						
62-72	13.8	230						
74-96	15.5	280						
98-120	17.4	310						
122-144	19.2	365						

GYTA53 Loose Tube Optical Cable





Properties

- Armor in the form of longitudinally applied overlapping flat aluminum tape, over which an outer sheath of polyethylene is applied, providing an excellent moisture-barrier
- Double armors providing excellent anti-crush and rodent-proof properties

Applicable fields

- Long-distance communication and LAN
- Moisture-proof and rodent-proof

Recommended layings methods

- Direct-burial

Structure configurations

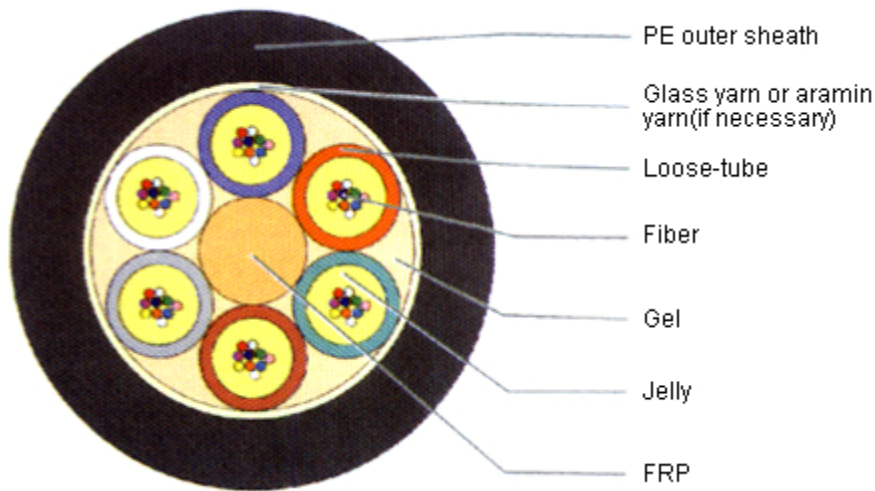
- Armor in the form of longitudinally applied overlapping flat aluminum tape. over which an outer sheath of polyethylene is applied. providing an excellent moisture-barrier
- Double armors providing excellent anti-crush and rodent-proof properties

Technical data

Fiber range	Cable outer diameter (MM)	Cable weight (kg/km)	Min.bending radius(MM)		Allowable tension (N)		Max.crush loading force (N/100mm)	
			Static	Dynamic	Short term	Long term	Short term	Long term
2-24	14.9	245	12.5times	25times	4000	2000	4000	2000

38-60	16.4	300	diameter	diameter				
62-72	17.3	335						
74-96	19.0	400						
98-120	21.0	440						
122-144	22.8	505						

GYFTY Loose Tube Optical Cable



Properties

- Non-metallic structure providing excellent anti-electromagnetism. ant thunder and anti-static performances.

Applicable fields

- Long-distance telecom, LAN in high-voltage area or access to telecom network
- Especially for power transmission system. excessive thunder areas and high electromagnetic interference.

Recommended layings methods

- High-voltage area, Aerial

Structure configurations

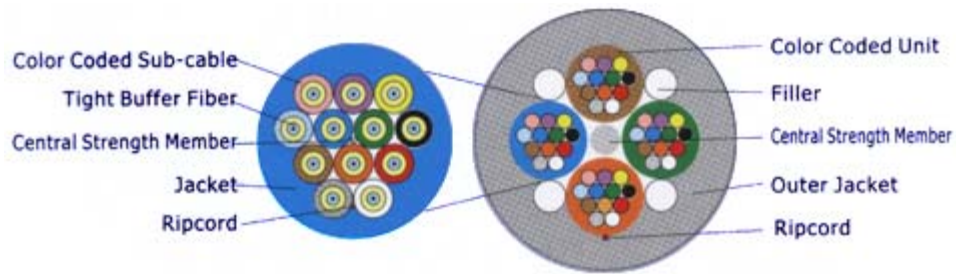
- Non-metallic strengthening member
- Reinforced with fiber glass or aramid yam
- PE outer sheath
- Note: We can design any kind of structures according to environmental condition and transissioncapacity, E.G;GYFTA, GYFXTY, GYFDTZA etc...

Technical data

Fiber range	Cable outer diameter (MM)	Cable weight (kg/km)	Min. bending radius(MM)		Allowable tension (N)		Max.crush loading force (N/100mm)	
			Static	Dynamic	Short term	Long term	Short term	Long term
2-24	10.6	95	10times cable diameter	20times cable diameter	2000	1000	1000	500
26-36	11.0	105						
38-60	12.0	125						
62-72	13.0	145						
74-96	14.7	175						
98-120	16.4	220						
122-144	18.4	270						

Unit Breakout Cables





►Features

- Unit breakout structure makes up to 84 fiber count cables.
- Best design for single-mode and multimode fiber hybrid cables.
- Φ900um tight buffer fiber, semi-tight buffer fiber also available.
- SZ stranded cable core for flexibility, but superior high mechanical performance.
- PVC or Low Smoke Zero Halogen (LSZH) is available as jacket material.
- Color coding complied with TIA/EIA-598-B.

►Applications

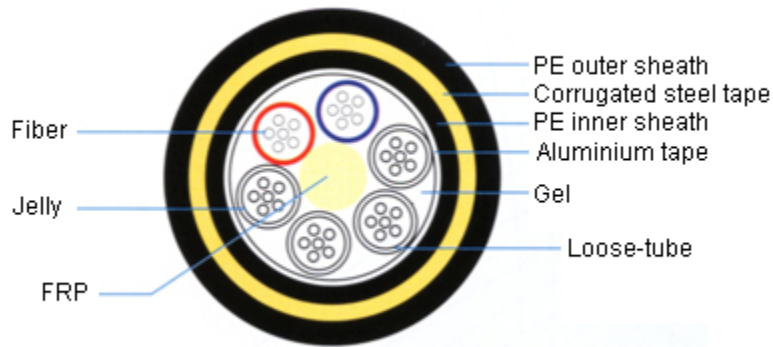
- Ideal for high density cabling system in building, trunking and LAN distribution.
- Suitable for indoor and outdoor use, act as intrabuilding backbone.
- Can be terminated with various types of connectors.

►Mechanical Specifications

Fiber Count	Units	Fibers in Unit	Diameter (mm)	weight (kg/km)	Maximum Tensile Load(N)		Minimum Bend Radius (mm)	
					Installing	Operating	Installing	Operating
16	4	4	18.5	335	1400	470	10 Times of Outer Diameter	15 Times of Outer Diameter
28	7		22.0	465	2450	800		
48	12		28.0	720	4200	1400		
24	4	6	21.0	450	2000	660		

42	7		25.5	635	3500	1100		
72	12		33.0	980	6000	2000		
48	4	12	28.5	810	3200	1000		
84	7		34.5	1150	3600	1800		

All Dielectric Self-supporting Optical Cable



Available range

- New and old electric power line. to be equipped at the same tower.
- Large-span situation.
- Strong electric field, much thunder field.

Characteristic

- Small diameter, light weight, the span can reach to 1500m, with a low additional load to the tower.
- Strong anti-pull performance, more than 90KN.
- Non-metallic structure, good insulated performance, thunder-proof.
- The equality span and good performance when meeting an emergency.
- Good performance of anti-gun.



- Good performance of anti-erode
- Suitable for bad climate.
- Can work without electric stop.

● **Structure characteristic**

- Loose tube and non-metallic strengthen
- High flexible
- Can work under the environment at electric fields $\leq 25\text{KV/m}$.

● **Notes**

- We can manufacture detailed ADSS cable according to the requirement.