

OPTICAL FIBER CABLE





FiberHome Technologies

China's optical Fiber and Cable

In 1976 under the leadership of Mr. Zhao Zisen, China's father of optical fiber, FiberHome achieved major scientific and technological breakthrough by developing China's first piece of optical fiber and by executing the first project for the practical use of optical cables.

Profound Technical Foundation

For about 40 years, FiberHome has launched a large number of researches and practices on optical fiber technology, optical cable material characteristics, structure, manufacturing process, testing technology and lifespan of optical cable.

FiberHome has accumulated an abundance of experience in optical fiber and cable technology with relentless efforts.

As a major advocate of national and industry standards, FiberHome has participated in drafting more than 50 national standards of optical fiber and cable. The original method of precise and controlled measure on the excess length of fiber in the cable ensures that the fiber attenuation performance is better than similar products;

FiberHome has mastered a number of advanced cabling technologies and obtained more than 40 patents of optical fiber and cable.

Powerful Production Guarantee

High-performance and state of the art production line and testing equipment. With annual output of 30 million core km optical fiber and 30 million core km optical cables, FiberHome has become one of the ultra-large scale optical fiber & cable manufacturing enterprises in China to date..

Reliable Quality Assurance

Obtained Certificate for Product Exemption from Quality Surveillance Inspection issued by General Administration of Quality Supervision, Inspection and Quarantine of P.R.C;

Certified by ISO9001 System of 2000 version and by ISO14000 System;

Obtained the network access License of Information and Communication Company of State Grid, Communication Department of General Staff Headquarters and The State Administration of Radio Film and Television;

The products have been certified by TLC (Theil Laboratory Center), UL (Underwriters Laboratories), RoHS (Restrictions of Hazardous Substances) and CNAS (China National Accreditation Service for Conformity)

Perfect Customer Service

FiberHome is the only optical fiber and cable supplier that sets up marketing and service platforms in 31 provinces and autonomous regions in China. In addition to this, it is the only optical fiber and cable company in China that sets up more than 20 marketing and service platform worldwide.

China's top brands

China Golden Supplier of Optical Fiber and Cable

China Optical Fiber and Cable Supplier with the Most Influential Brands

China Top Brand

Fruitful Achievements Made at Home and Abroad

Domestically, FiberHome serves as the supplier for major telecommunication carriers such as China Telecom, China Mobile and China Unicom. Furthermore, FiberHome is a major supplier of fiber optic cable backbone and local private networks of Petroleum and Petrochemical Industry, Railways, Expressway, Radio and Television Network and The Armed Forces.

In the global market, FiberHome's optical cable has been exported to Telefónica and Telecom Italia.

FiberHome production capacity of the optical fiber and optical cable both exceed 20 million fiber kilometers, ranked second in the domestic market.

FiberHome products have been exported to more than 50 countries and regions including Algeria, Nigeria, Indonesia, Thailand, Malaysia, Argentina, Ecuador, Colombia, Ethiopia, and The Philippines.

Complete products

Optical fiber: multimode fiber (OM3, Om4), G.652, G.655, G.657 and etc.

Common outdoor optical cable more than 40 varieties of communication optical cable which fall into two major series: layer stranded type and central tube type, applicable to aerial, duct, direct buried, underwater and other special environments;

Fiber ribbon cable: a series of fiber ribbon cable, ultra-large-count fiber ribbon cable;

Indoor soft cable: full series of indoor optical cable;

Optical cable for FTTH application: various types of access cable and drop cable;

Optical cable for special purposes: all kinds of special cables such as ADSS, OPGW, fire-retardant cable, anti-termite cable, non-metallic cable, data cable, submarine cable and etc.

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Duct Cable

GYFY	Gel-Free Loose Tube All Dielectric Cable
GYFTY	Gel-Filled Loose Tube All Dielectric Cable
GYFTS/A	Gel-Filled Loose Tube Armored Cable
GYFTCY	Gel-Filled Loose Tube All Dielectric Cable
GYFS/A	Corrugated Steel/Aluminum Tape Armored Cable
GYDTS/A	Gel-Filled, Corrugated steel/aluminum tape armored ribbon cable



Aerial Cable

GYFC8S/A/Y	Gel-Free Standard Loose Tube Self Support Aerial Cable
GYFC8Y/A/S	Gel-Free Loose Tube Self Support Aerial Cable
GYFTC8Y/A/S	Gel-Filled Loose Tube Self Support Aerial Cable
GYTC8YA/S/Y	Gel-Filled Loose Tube Self Support Aerial Cable
GYFC8Y53	Gel-Free Loose Tube Self Support Aerial Cable
GYFTCY	All-Dielectric Self Supporting
GYFY	Gel-Free Loose Tube Cable
GYXTC8S/A/Y	Center Tube Self Support Aerial Cable



Direct Buried Cable

GYFTY53	Gel-Free Loose Tube Armored Cable
GYTY33	Steel Wires Armored
GYTA33	All Terrain Cable



Railway Optical Cable

GYFZA	Gel-Filled Armored Cable
GYFZA53	Low Smoke Loose Tube Armored



Air-blown Optical Cable

GCYFY	Air Blow Loose Tube All Dielectric Cable
GCYFXY	Air Blow Center Tube All Dielectric Cable



Electric Optical Cable

ADSS	All Dielectric Self Support Cable
ADSS	All Dielectric Self Support Cable
OPGW	Central Stainless Steel Tape Optical Fiber
OPGW	Composite Overhead Ground Wire
	Stranded Stainless Steel Wire Optical Fiber
	Composite Overhead Ground Wire



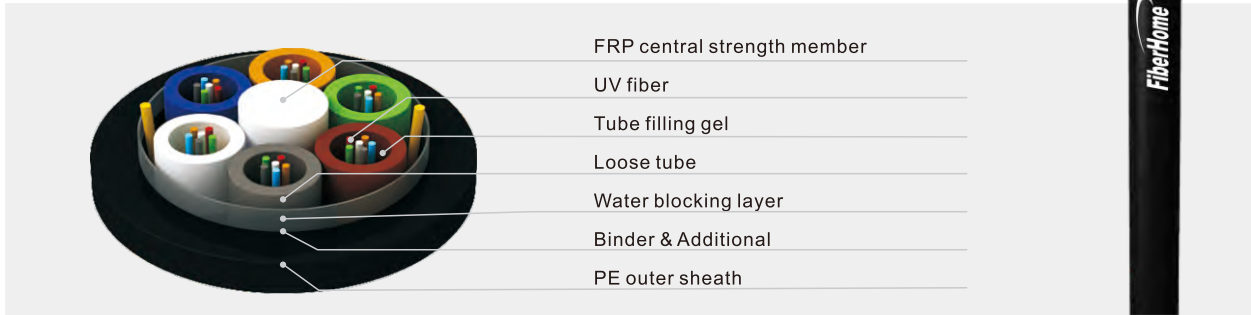
Special

GYFC8A	Gel-Free Loose Tube Self Support Aerial Cable For Distribution
GYA	Gel-Free Loose Tube Armored Cable For Distribution
Submarine cable	Double Steel Wire Armored Cable

Gel-Free Loose Tube All Dielectric Cable

GYFY- Duct / Aerial

- Fiber reinforced plastic central strength member
- Tube filling gel
- Loose tube stranded
- PE sheath outdoor cable



Performance

- Application
- Long haul and building network communication
- Operating Temperature
- -40℃~+70℃

Features and Benefits

- Water-blocking construction
- Special filling gel in loose tubes
- Fiber reinforced plastic as central strength member
- All dielectric construction design
- Strict craft and raw material control enable
- Customized longitudinal color strip
- Moisture-proof and prevents water penetration
- Reduce or eliminate reflection losses and prevent water penetration
- High Corrosion resistance and Young's modulus
- Eliminates electromagnetic induction effect
- Lifespan over 30 years
- Easy identification, packing and maintenance

- Note:
- According to different applications, anti-termite and anti-bullet are optional.
 - For flame retardant cable, outer sheath can be made of low-smoke zero halogen (LSZH) material, and the type is GYFZY. Anti-termite and anti-bullet also optional.
 - The aluminum tape armored or steel tape armored cable can be provided the type is GYFA or GYFS.
 - Longitudinal color strip on outer sheath can be provided according to customer's requests. More details please refer to GYFZA.
 - Special cable structure can be designed and manufactured upon customer's request.

Technical Specification

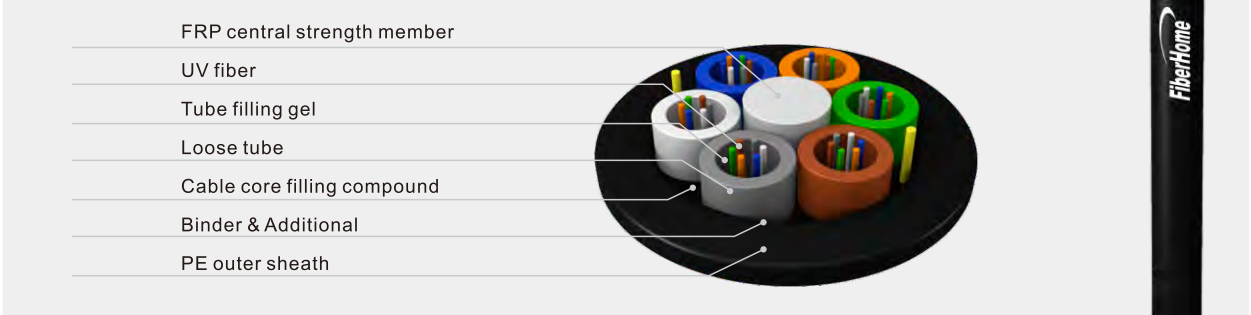
Fiber Count	Nominal Diameter (mm)	Nominal Weight (kg/km)	Max Fibers per Tube	No. of (Tubes + Fillers)	Allowable Tensile Load (N)		Allowable Crush Resistance (N/100mm)	
					Short Term	Long Term	Short Term	Long Term
2~36	10.2	85	6	6	1500	600	1000	300
38~72	11.1	100	12	6	1500	600	1000	300
74~96	12.6	130	12	8	1500	600	1000	300
98~120	14.1	162	12	10	1500	600	1000	300
122~144	15.9	204	12	12	1800	600	1000	300
146~216	15.9	205	12	18 (2layers)	1800	600	1000	300
>216	Available upon customer's request							

*Customized cable structure is available

Gel-Filled Loose Tube All Dielectric Cable

GYFTY- Duct / Aerial

- Fiber reinforced plastic central strength member
- Tube filling gel
- Loose tube stranded
- PE sheath outdoor cable



Performance

- Application
- Long haul and building network communication
- Operating Temperature
- -40℃~+70℃

Features and Benefits

- Water-blocking construction
- Special filling gel in loose tubes
- Fiber reinforced plastic as central strength member
- All dielectric construction design
- Strict craft and raw material control enable
- Customized longitudinal color strip
- Moisture-proof and prevents water penetration
- Reduce or eliminate reflection losses and prevent water penetration
- High Corrosion resistance and Young's modulus
- Eliminates electromagnetic induction effect
- Lifespan over 30 years
- Easy identification, packing and maintenance

- Note:
- According to different applications, anti-termite and anti-bullet are optional.
 - For flame retardant cable, outer sheath can be made of low-smoke zero halogen (LSZH) material, and the type is GYFTZY.
 - The aluminum tape armored or steel tape armored cable can be provided the type is GYFTA or GYFTS.
 - Longitudinal color strip on outer sheath can be provided according to customer's requests. More details please refer to GYFZA.
 - Special cable structure can be designed and manufactured upon customer's request.

Technical Specification

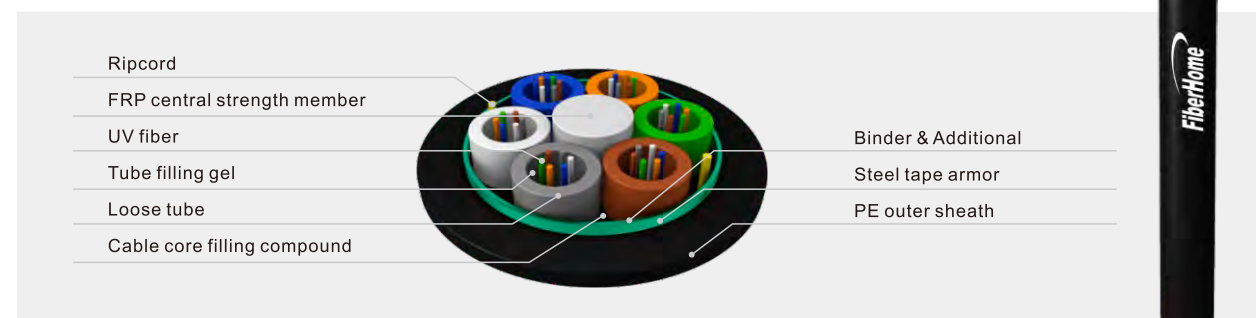
Fiber Count	Nominal Diameter (mm)	Nominal Weight (kg/km)	Max Fibers per Tube	No. of (Tubes + Fillers)	Allowable Tensile Load (N)		Allowable Crush Resistance (N/100mm)	
					Short Term	Long Term	Short Term	Long Term
2~36	10.2	85	6	6	1500	600	1000	300
38~72	11.1	100	12	6	1500	600	1000	300
74~96	12.6	130	12	8	1500	600	1000	300
98~120	14.1	162	12	10	1500	600	1000	300
122~144	15.9	204	12	12	1800	600	1000	300
146~216	15.9	205	12	18 (2layers)	1800	600	1000	300
>216	Available upon customer's request							

*Customized cable structure is available

Gel-Filled Loose Tube Armored Cable (Single Sheath)

GYFTS/A -Duct/ Aerial

- Fiber reinforced plastic central strength member
- Loose tube stranded
- Corrugated steel tape armored outdoor cable



Performance

Application

- Long haul and building network communication

Operating Temperature

- -40°C~+70°C

Features and Benefits

Water-blocking construction	Moisture-proof and prevents water penetration
Special tube filling gel	Reduce or eliminate reflection losses and prevent water penetration
Fiber reinforced plastic as central strength member	High Young's modulus
Longitudinal coated steel tape	High desirable tensile strength and crush resistance
Strict craft and raw material control	Lifespan over 30 years
Customized longitudinal color strip	Easy identification, packing and maintenance

Note:

- According to different applications, anti-termite optional.
- If loose tube stranded fiber cable is armored with aluminum tape, the type is GYFTA.
- For flame retardant cable, LSZH (Low-Smoke Zero Halogen) material is applicable to outer sheath and the type is GYFTZS/A.
- Longitudinal color strip on outer sheath can be provided according to customer's requests. More details, please refer to GYFZA.
- Special cable structure can be designed and manufactured upon customer's request.

Technical Specification

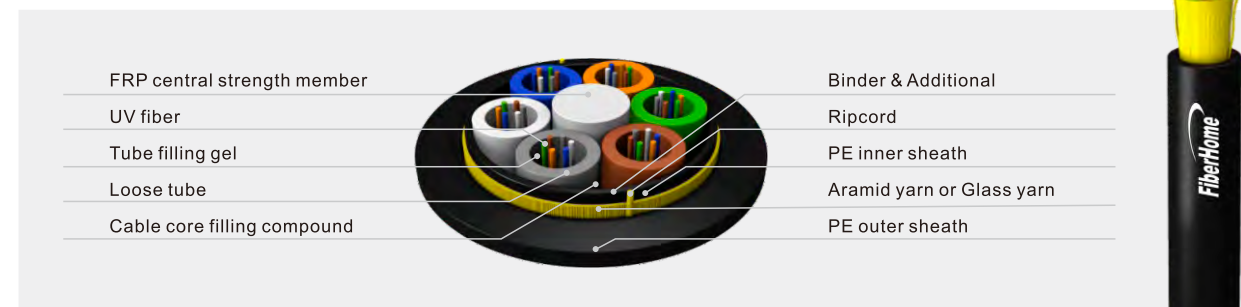
Fiber Count	Nominal Diameter (mm)	Nominal Weight (kg/km)	Max Fibers per Tube	No. of (Tubes + Fillers)	Allowable Tensile Load (N)		Allowable Crush Resistance (N/100mm)	
					Short Term	Long Term	Short Term	Long Term
2~36	11.4	130	6	6	1500	600	1000	300
38~72	12.5	152	12	6	1500	600	1000	300
74~96	14.2	194	12	8	1500	600	1000	300
98~120	15.7	230	12	10	1500	600	1000	300
122~144	17.3	274	12	12	1800	600	1000	300
>144	Available upon customer's request							

*Customized cable structure is available

Gel-Filled Loose Tube All Dielectric Cable (Double Sheath)

GYFTCY -Aerial /Duct/ Direct Buried

- Fiber reinforced plastic central strength member
- Loose tube stranded
- PE sheath all-dielectric
- Self-supporting aerial cable



Performance

Application

- The actual status of overhead power lines

Operating Temperature

- -40°C~+70°C

Features and Benefits

Water-blocking construction	Moisture-proof and prevents water penetration
Special filling gel in loose tubes	Reduce or eliminate reflection losses and prevent water penetration
All dielectric construction design	Eliminates electromagnetic induction effect
Strict craft and raw material control enable	Lifespan over 30 years
Customized longitudinal color strip	Easy identification, packing and maintenance

Note:

- According to different applications, anti-termite and anti-rodent are optional.
- For flame retardant cable, LSZH (Low-Smoke Zero Halogen) material is applicable to outer sheath and the type is GYFZCY.
- Longitudinal color strip on outer sheath can be provided according to customer's requests. More details, please refer to GYFZA.

Technical Specification

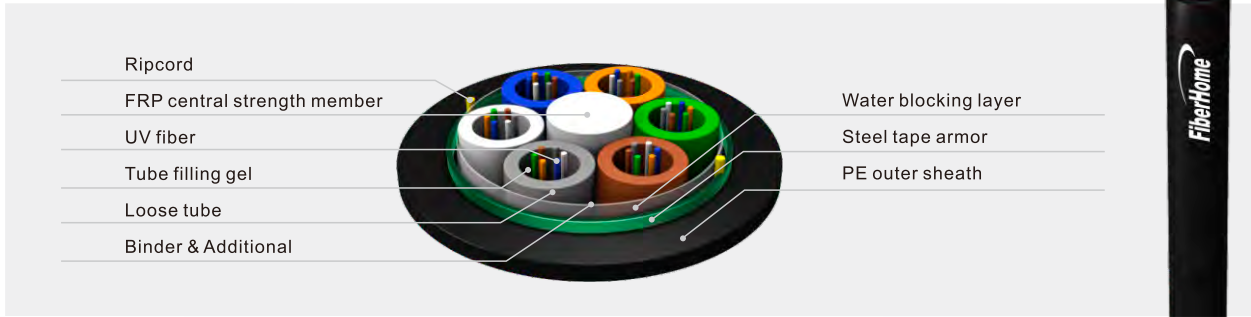
Fiber Count	Nominal Diameter (mm)	Nominal Weight (kg/km)	Max Fibers per Tube	No. of (Tubes + Fillers)	Allowable Tensile Load (N)		Allowable Crush Resistance (N/100mm)	
					Short Term	Long Term	Short Term	Long Term
2~36	10.7	92	6	6	2700	1000	1000	300
38~72	11.6	103	12	6	2700	1000	1000	300
74~96	13.3	149	12	8	2700	1000	1000	300
98~120	14.8	180	12	10	2700	1000	1000	300
122~144	16.4	222	12	12	2700	1000	1000	300
146~216	18.8	224	12	18 (2layers)	2700	1000	1000	300
>216	Available upon customer's request							

*Customized cable structure is available

Corrugated Steel/Aluminum Tape Armored Cable (Single Sheath)

GYFS/A -Duct/ Aerial

- Fiber reinforced plastic central strength member
- Loose tube stranded
- Corrugated steel tape armored outdoor cable



Performance

- Application**
- Long haul and building network communication

Operating Temperature

 - -40°C~+70°C

Features and Benefits

- | | |
|--|---|
| Water-blocking construction | Moisture-proof and prevents water penetration |
| Special tube filling gel | Reduce or eliminate reflection losses and prevent water penetration |
| Fiber reinforced plastic as central strength member | High Young's modulus |
| Longitudinal coated steel tape | High desirable tensile strength and crush resistance |
| Strict craft and raw material control | Lifespan over 30 years |
| Customized longitudinal color strip | Easy identification, packing and maintenance |

- Note:
- According to different applications, anti-termite optional.
 - If loose tube stranded fiber cable is armored with aluminum tape, the type is GYFA
 - For flame retardant cable, LSZH (Low-Smoke Zero Halogen) material is applicable to outer sheath and the type is GYFZS.
 - Longitudinal color strip on outer sheath can be provided according to customer's requests. More details, please refer to GYFZA.
 - Special cable structure can be designed and manufactured upon customer's request.

Technical Specification

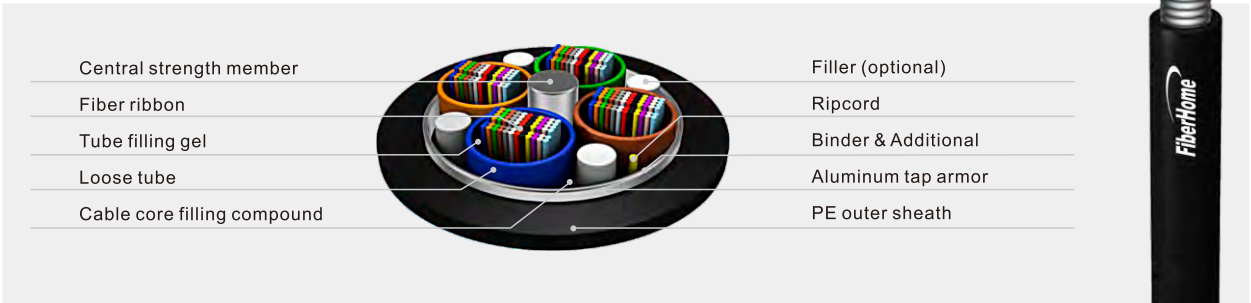
Fiber Count	Nominal Diameter (mm)	Nominal Weight (kg/km)	Max Fibers per Tube	No. of (Tubes + Fillers)	Allowable Tensile Load (N)		Allowable Crush Resistance (N/100mm)	
					Short Term	Long Term	Short Term	Long Term
2~36	9.9	110	6	5	1500	600	1000	300
38~72	10.6	133	6	6	1500	600	1000	300
74~96	11.4	140	12	5	1500	600	1000	300
98~120	12.0	168	12	6	1500	600	1000	300
122~144	13.6	202	12	8	1800	600	1000	300
>144	Available upon customer's request							

*Customized cable structure is available

Gel-Filled,Corrugated Steel/Aluminum Tape Armored Ribbon Cable

GYDTA/S -Duct/ Aerial

- Phosphate or galvanized steel wire central strength member
- Loose tube stranded
- Corrugated steel tape armored double PE sheath



Performance

- Application**
- Access network (especial in FTTx), interoffice connection and CATV network

Operating Temperature

 - -40°C~+70°C

Features and Benefits

- | | |
|--|---|
| Water-blocking construction | Moisture-proof and prevents water penetration |
| Special filling gel in loose tubes | Reduce or eliminate reflection losses and prevent water penetration |
| Phosphate or galvanized steel wire as central strength member | High Corrosion resistance and Young's modulus |
| High fiber density | Convenient installation and cost savings |
| Strict craft and raw material control | Lifespan over 30 years |
| Customized longitudinal color strip | Easy identification, packing and maintenance |
| Fiber ribbon options | 4-fiber ribbon 6-fiber ribbon,8-fiber ribbon,12-fiber ribbon |

- Note:
- If loose tube stranded fiber ribbon cable is armored with steel tape, the type is GYDTS
 - For flame retardant cable, LSZH (Low-Smoke Zero Halogen) material is applicable to outer sheath and the type is GYDTZA,GYDTZS
 - Longitudinal color strip on outer sheath can be provided according to customer's requests. More details, please refer to GYFZA.
 - Customized cable structure is available

Technical Specification

	Fiber Count	Nominal Diameter (mm)	Nominal Weight (kg/km)	Max Ribbon per Tube	No. of (Tubes + Fillers)	Allowable Tensile Load (N)		Allowable Crush Resistance (N/100mm)	
						Short Term	Long Term	Short Term	Long Term
4-Fiber Ribbon	8-96	15.4	217	4	6	1500	600	1000	300
6-Fiber Ribbon	12-120	15.6	220	4	5	1500	600	1000	300
	126-144	16.3	226	6	4	1500	600	1000	300
	150-216	18.8	307	6	6	2200	600	1000	300
8-Fiber Ribbon	8-192	16.8	240	6	4	1500	600	1000	300
	200-288	19.7	320	6	6	2200	600	1000	300
	194-384	21.8	390	8	6	2200	600	1000	300
12-Fiber Ribbon	24-192	18.3	288	4	4	2200	600	1000	300
	207-288	19.5	320	6	4	2200	600	1000	300
	300-432	21.6	385	9	4	2200	600	1000	300
	444-600	24.0	450	10	5	2200	600	1000	300
	>600	Available upon customer's request							

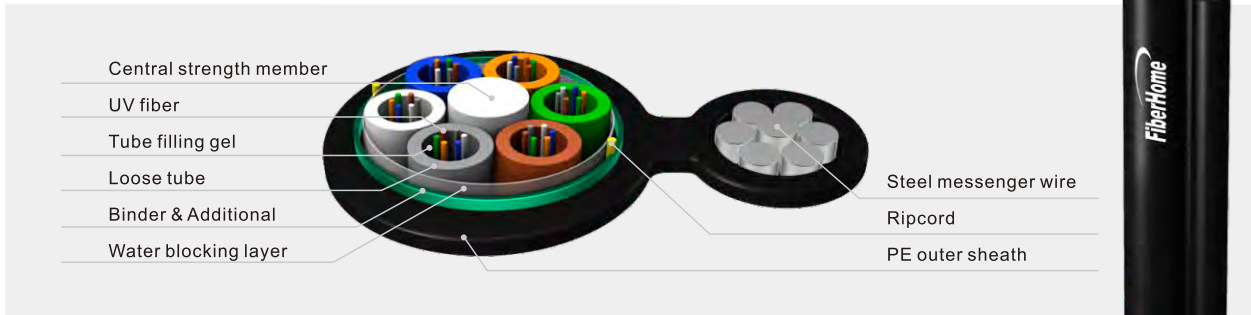
*Customized cable structure is available

Gel-Free Loose Tube Self Support Aerial Cable

(Figure-8; Steel/Aluminum/Non Tape Armored)

GYFC8S/A/Y -Aerial

- Fiber reinforced plastic central strength member
- Loose tube stranded
- PE sheath
- Figure 8 self-supporting aerial cable



Performance

Application

- Long haul and building network communication

Operating Temperature

- -40°C~+70°C

Features and Benefits

Water-blocking construction

Moisture-proof and prevents water penetration

Special filling gel in loose tubes

Reduce or eliminate reflection losses and prevent water penetration

Phosphate or galvanized steel wire as hanging member

Figure-8 self-supporting structure presents high tensile strength and enables easy and cost saving aerial installation

Longitudinal coated steel tape

High desirable tensile strength and crush resistance

Strict craft and raw material control enable

Lifespan over 30 years

Note:

☑ If loose tube stranded fiber cable is armored with aluminum tape, the type is GYFC8A, if no armor, the type is GYFC8Y.

- Span within 50 meters, longer span available.

- For flame retardant cable, LSZH (Low-Smoke Zero Halogen) material is applicable to outer sheath and the type is GYFCZ8S/A/Y.

- Longitudinal color strip on outer sheath can be provided according to customer's requests. More details, please refer to GYFZA.

Technical Specification

Fiber Count	Nominal Diameter (mm)	Nominal Weight (kg/km)	Max Fibers per Tube	No. of (Tubes + Fillers)	Allowable Tensile Load (N)		Allowable Crush Resistance (N/100mm)	
					Short Term	Long Term	Short Term	Long Term
2~30	9.4x 17.4	156	6	5	7000	4000	1000	300
32~36	10.0x 18.0	170	6	6	7000	4000	1000	300
38~60	10.6x 18.6	175	12	5	7000	4000	1000	300
62~72	10.9x 19.0	185	12	6	7000	4000	1000	300
>72	Available upon customer's request							

*Customized cable structure is available

Gel-Free Loose Tube Self Support Aerial Cable

(Figure-8; Steel/Aluminum/Non Tape Armored)

GYFC8Y/A/S -Aerial

- Fiber reinforced plastic central strength member
- Loose tube stranded
- PE sheath
- Figure 8 self-supporting aerial cable



Performance

Application

- Long haul and building network communication

Operating Temperature

- -40°C~+70°C

Features and Benefits

Water-blocking construction

Moisture-proof and prevents water penetration

Special filling gel in loose tubes

Reduce or eliminate reflection losses and prevent water penetration

Phosphate or galvanized steel wire as hanging member

Figure-8 self-supporting structure presents high tensile strength and enables easy and cost saving aerial installation

Strict craft and raw material control enable

Lifespan over 30 years

Note:

- Span within 50 meters, longer span available.

- For flame retardant cable, LSZH (Low-Smoke Zero Halogen) material is applicable to outer sheath and the type is GYFTZC8Y/A/S

- Longitudinal color strip on outer sheath can be provided according to customer's requests. More details, please refer to GYFZA.

Technical Specification

Fiber Count	Nominal Diameter (mm)	Nominal Weight (kg/km)	Max Fibers per Tube	No. of (Tubes + Fillers)	Allowable Tensile Load (N)		Allowable Crush Resistance (N/100mm)	
					Short Term	Long Term	Short Term	Long Term
2~30	9.4x 17.4	156	6	5	7000	4000	1000	300
32~36	10.0x 18.0	170	6	6	7000	4000	1000	300
38~60	10.6x 18.6	175	12	5	7000	4000	1000	300
62~72	10.9x 19.0	185	12	6	7000	4000	1000	300
>72	Available upon customer's request							

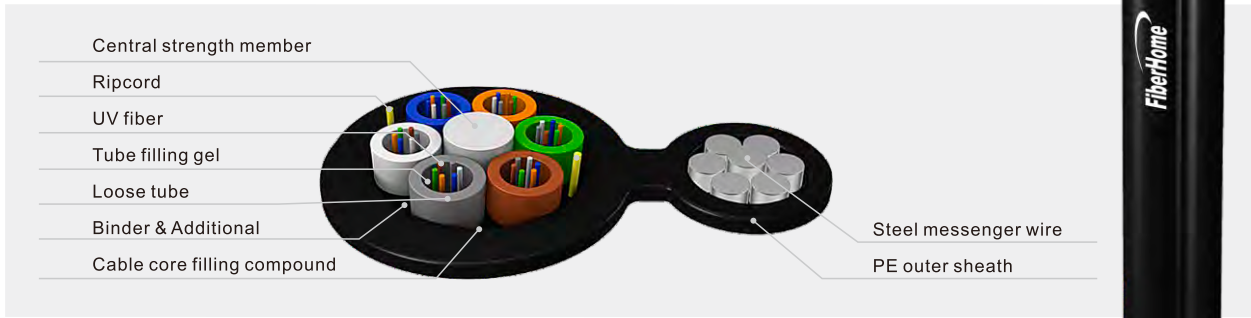
*Customized cable structure is available

Gel-Filled Loose Tube Self Support Aerial Cable

(Figure-8; Steel Central Strength Member Non/Aluminum/Steel Tape Armored)

GYFTC8Y/A/S -Aerial

- Phosphate or galvanized steel wire central strength member
- Loose tube stranded
- PE sheath
- Figure 8 self-supporting aerial cable



Performance

Application

- Long haul and building network communication

Operating Temperature

- 40°C~+70°C

Features and Benefits

Water-blocking construction

Moisture-proof and prevents water penetration

Special filling gel in loose tubes

Reduce or eliminate reflection losses and prevent water penetration

Phosphate or galvanized steel wire as hanging member

Figure-8 self-supporting structure presents high tensile strength and enables easy and cost saving aerial installation

Strict craft and raw material control enable

Lifespan over 30 years

Note:

- Span within 50 meters, longer span available.
- For flame retardant cable, LSZH (Low-Smoke Zero Halogen) material is applicable to outer sheath and the type is GYTZC8Y/A/S
- Longitudinal color strip on outer sheath can be provided according to customer's requests. More details, please refer to GYFZA.

Technical Specification

Fiber Count	Nominal Diameter (mm)	Nominal Weight (kg/km)	Max Fibers per Tube	No. of (Tubes + Fillers)	Allowable Tensile Load (N)		Allowable Crush Resistance (N/100mm)	
					Short Term	Long Term	Short Term	Long Term
2~30	9.4x 17.4	156	6	5	7000	4000	1000	300
32~36	10.0x 18.0	170	6	6	7000	4000	1000	300
38~60	10.6x 18.6	175	12	5	7000	4000	1000	300
62~72	10.9x 19.0	185	12	6	7000	4000	1000	300
>72	Available upon customer's request							

*Customized cable structure is available

Gel-Filled Loose Tube Self Support Aerial Cable

(Figure-8; Steel Central Strength Member Steel/Aluminum/Steel/Non Tape Armored)

GYTC8YA/S/Y -Aerial

- Phosphate or galvanized steel wire central strength member
- Loose tube stranded
- PE sheath
- Figure 8 self-supporting aerial cable



Performance

Application

- Long haul and building network communication

Operating Temperature

- 40°C~+70°C

Features and Benefits

Water-blocking construction

Moisture-proof and prevents water penetration

Special filling gel in loose tubes

Reduce or eliminate reflection losses and prevent water penetration

Phosphate or galvanized steel wire as hanging member

Figure-8 self-supporting structure presents high tensile strength and enables easy and cost saving aerial installation

Strict craft and raw material control enable

Lifespan over 30 years

Note:

- Span within 50 meters, longer span available.
- For flame retardant cable, LSZH (Low-Smoke Zero Halogen) material is applicable to outer sheath and the type is GYTZC8YA
- Longitudinal color strip on outer sheath can be provided according to customer's requests. More details, please refer to GYFZA.

Technical Specification

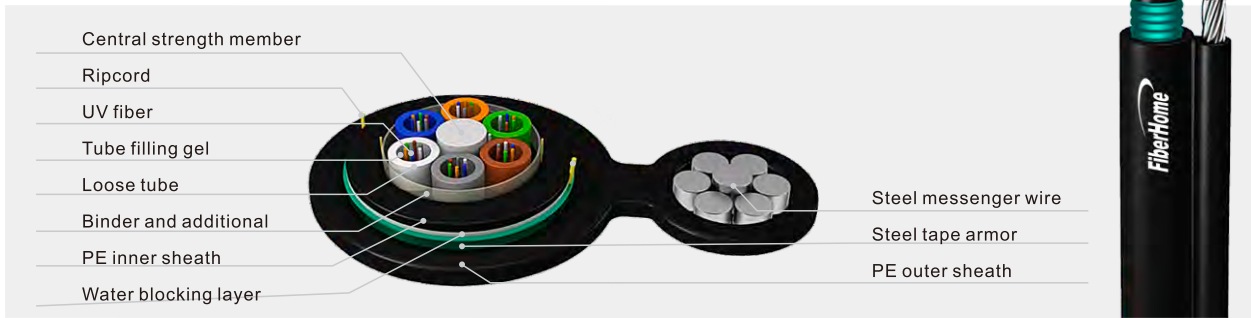
Fiber Count	Nominal Diameter (mm)	Nominal Weight (kg/km)	Max Ribbon per Tube	No. of (Tubes + Fillers)	Allowable Tensile Load (N)		Allowable Crush Resistance (N/100mm)	
					Short Term	Long Term	Short Term	Long Term
2~30	9.4x 17.4	156	6	5	7000	4000	1000	300
32~36	10.0x 18.0	170	6	6	7000	4000	1000	300
38~60	10.6x 18.6	175	12	5	7000	4000	1000	300
62~72	10.9x 19.0	185	12	6	7000	4000	1000	300
>72	Available upon customer's request							

*Customized cable structure is available

Gel-Free Loose Tube Self Support Aerial Cable
(Figure-8; AluminumTape Armored; Double Sheath)

GYFC8Y53 -Aerial

- Fiber reinforced plastic central strength member
- Loose tube stranded
- PE sheath
- Figure 8 self-supporting aerial cable



Performance

- Application**
- Long haul and building network communication
- Operating Temperature**
- -40°C~+70°C

Features and Benefits

- Water-blocking construction** Moisture-proof and prevents water penetration
- Special filling gel in loose tubes** Reduce or eliminate reflection losses and prevent water penetration
- Phosphate or galvanized steel wire as hanging member** Figure-8 self-supporting structure presents high tensile strength and enables easy and cost saving aerial installation
- Longitudinal coated steel tape** High desirable tensile strength and crush resistance, bullet proof property
- Strict craft and raw material control enable** Lifespan over 30 years

- Note:
- According to different applications, anti-termite and anti-rodent are optional.
 - Span within 50 meters, longer span available.
 - For flame retardant cable, LSZH (Low-Smoke Zero Halogen) material is applicable to outer sheath and the type is GYFZC8Y53.
 - Longitudinal color strip on outer sheath can be provided according to customer's requests. More details, please refer to GYFZA.

Technical Specification

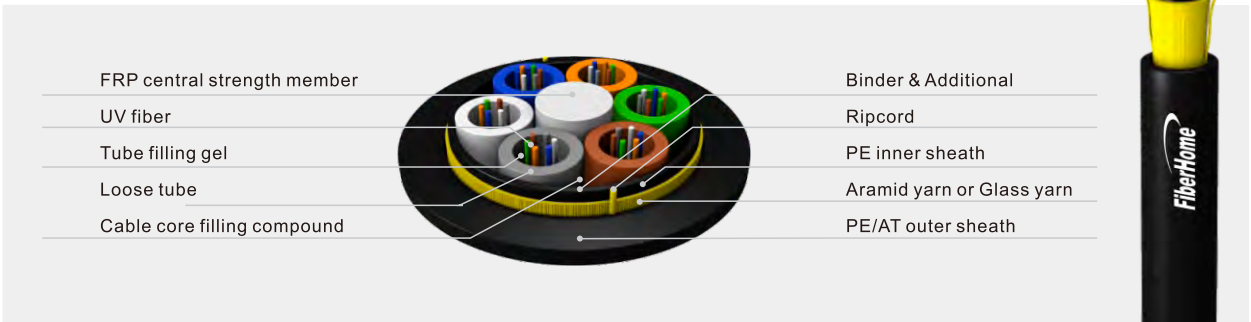
Fiber Count	Nominal Diameter (mm)	Nominal Weight (kg/km)	Max Fibers per Tube	No. of (Tubes + Fillers)	Allowable Tensile Load (N)		Allowable Crush Resistance (N/100mm)	
					Short Term	Long Term	Short Term	Long Term
2~30	12.9x 20.5	218	6	5	7000	4000	3000	1000
32~36	13.3x 20.9	235	6	6	7000	4000	3000	1000
38~60	13.9x 21.5	243	12	5	7000	4000	3000	1000
62~72	14.3x 21.9	250	12	6	7000	4000	3000	1000
>72	Available upon customer's request							

*Customized cable structure is available

All-Dielectric Self-Supporting
(Double Sheath, Nylon Sheath If Required)

GYFTCY -Aerial /Duct/ Direct Buried

- Fiber reinforced plastic central strength member
- Loose tube stranded
- PE sheath all-dielectric
- Self-supporting aerial cable



Performance

- Application**
- The actual status of overhead power lines
- Operating Temperature**
- -40°C~+70°C

Features and Benefits

- Water-blocking construction** Moisture-proof and prevents water penetration
- Special filling gel in loose tubes** Reduce or eliminate reflection losses and prevent water penetration
- All dielectric construction design** Eliminates electromagnetic induction effect
- Strict craft and raw material control enable** Lifespan over 30 years
- Customized longitudinal color strip** Easy identification, packing and maintenance

- Note:
- According to different applications, anti-termite and anti-rodent are optional.
 - For flame retardant cable, LSZH (Low-Smoke Zero Halogen) material is applicable to outer sheath and the type is GYFTZCY.
 - The cable technology parameters and fiber count, weather, span can be designed according to the project's requirement
 - For the actual status of overhead power lines and he load on pole and towers suspension point. AT outer sheath is applied.

Technical Specification

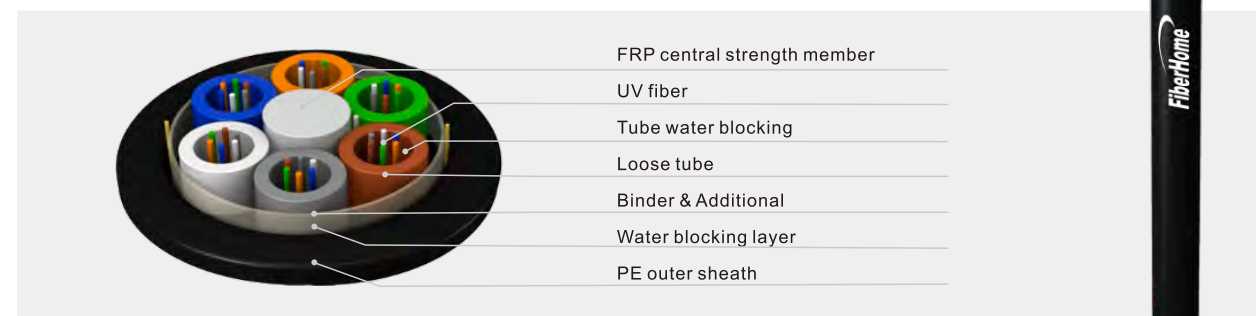
Fiber Count	Nominal Diameter (mm)	Nominal Weight (kg/km)	Max Fibers per Tube	No. of (Tubes + Fillers)	Allowable Tensile Load (N)		Allowable Crush Resistance (N/100mm)	
					Short Term	Long Term	Short Term	Long Term
2~36	10.7	92	6	6	2700	1000	1000	300
38~72	11.6	103	12	6	2700	1000	1000	300
74~96	13.3	149	12	8	2700	1000	1000	300
98~120	14.8	180	12	10	2700	1000	1000	300
122~144	16.4	222	12	12	2700	1000	1000	300
146~216	18.8	224	12	18 (2layers)	2700	1000	1000	300
>216	Available upon customer's request							

*Customized cable structure is available

Gel-Free Loose Tube Cable

GYFY-Duct/ Aerial

- Fiber reinforced plastic central strength member
- Tube water blocking compound
- Loose tube stranded
- PE sheath outdoor cable



Performance

Application

- Long haul and building network communication

Operating Temperature

- -40°C~+70°C

Features and Benefits

Water-blocking construction

Special water penetration material in loose tubes

Fiber reinforced plastic as central strength member

All dielectric construction design

Strict craft and raw material control enable

Customized longitudinal color strip

Moisture-proof and prevents water penetration
Good water penetration protection for optical fiber
High Corrosion resistance and Young's modulus
Eliminates electromagnetic induction effect
Lifespan over 30 years
Easy identification, packing and maintenance

Note:

- According to different applications, anti-termite and anti-rodent are optional.
- For flame retardant cable, outer sheath can be made of low-smoke zero halogen (LSZH) material, and the type is GYFZY.
- The aluminum tape armored or steel tape armored cable can be provided the type is GYFA or GYFS.
- Longitudinal color strip on outer sheath can be provided according to customer's requests. More details please refer to GYFZA.
- Special cable structure can be designed and manufactured upon customer's request.

Technical Specification

Fiber Count	Nominal Diameter (mm)	Nominal Weight (kg/km)	Max Fibers per Tube	No. of (Tubes + Fillers)	Allowable Tensile Load (N)		Allowable Crush Resistance (N/100mm)	
					Short Term	Long Term	Short Term	Long Term
2~36	10.2	85	6	6	1500	600	1000	300
38~72	11.1	100	12	6	1500	600	1000	300
74~96	12.6	130	12	8	1500	600	1000	300
98~120	14.1	162	12	10	1500	600	1000	300
122~144	15.9	204	12	12	1800	600	1000	300
146~216	15.9	205	12	18 (2layers)	1800	600	1000	300
>216	Available upon customer's request							

*Customized cable structure is available

Center Tube Self Support Aerial Cable

(Figure-8; Steel/aluminum/non tape armored)

GYXTC8S/A/Y -Aerial

- Center loose tube
- PE sheath
- Figure 8 self-supporting aerial cable



Performance

Application

- Long haul and building network communication

Operating Temperature

- -40°C~+70°C

Features and Benefits

Water-blocking construction

Special filling gel in loose tubes

Phosphate or galvanized steel wire as hanging member

Longitudinal coated steel tape

Strict craft and raw material control enable

Moisture-proof and prevents water penetration
Reduce or eliminate reflection losses and prevent water penetration
Figure-8 self-supporting structure presents high tensile strength and enables easy and cost saving aerial installation
High desirable tensile strength and crush resistance
Lifespan over 30 years

Note:

- Span within 50 meters, longer span available.
- For flame retardant cable, LSZH (Low-Smoke Zero Halogen) material is applicable to outer sheath and the type is GYFTZC8Y(S).
- Longitudinal color strip on outer sheath can be provided according to customer's requests. More details, please refer to GYFZA.

Technical Specification

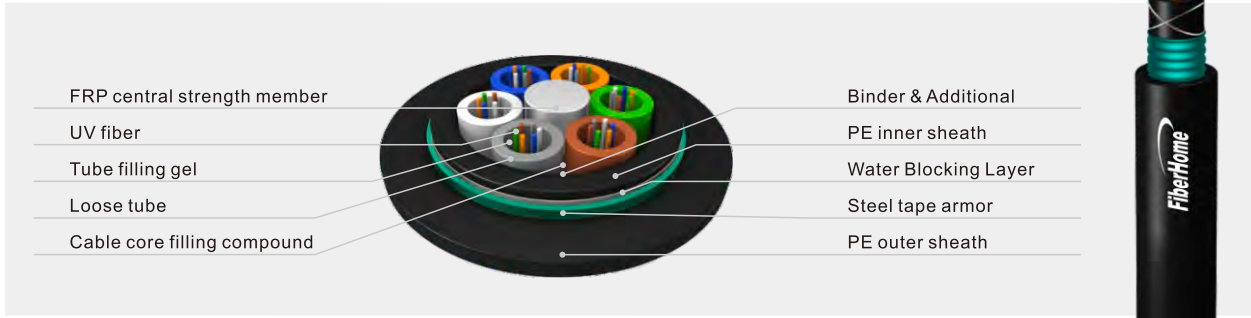
Fiber Count	Nominal Diameter (mm)	Nominal Weight (kg/km)	Allowable Tensile Load (N)		Allowable Crush Resistance (N/100mm)	
			Short Term	Long Term	Short Term	Long Term
1~24	8.0x 16.0	135	7000	4000	1000	300

*Customized cable structure is available

Gel-Free Loose Tube Armored Cable (Double Sheath)

GYFTY53 -Direct buried in frequently lighting areas

- Fiber reinforced plastic central strength member
- Loose tube stranded
- PE inner sheath
- Corrugated steel tape armored double PE sheath



Performance

Application

- Under ground, long haul and building network communication

Operating Temperature

- -40°C~+70°C

Features and Benefits

Water-blocking construction

Special filling gel in loose tubes

Fiber Reinforced plastic as central strength member

Longitudinal coated steel tape

Moisture-proof and prevents water penetration
Reduce or eliminate reflection losses and prevent water penetration
High Corrosion resistance and Young's modulus
High desirable tensile strength and crush resistance, bullet proof property, direct burial installation
Lifespan over 30 years

Strict craft and raw material control enable

- Note:
- According to different applications, GYTA333, GYTS33, GYTY53+33, GYTY53+333, GYTA53+33, GYTA53+333 can be provided
 - For flame retardant cable, LSZH (Low-Smoke Zero Halogen) material is applicable to outer sheath and the type is GYFTZY53.
 - According to different applications, anti-termite, anti-rodent and anti-bullet are optional.
 - Longitudinal color strip on outer sheath can be provided according to customer's requests. More details, please refer to GYFZA.
 - Customized cable structure is available

Technical Specification

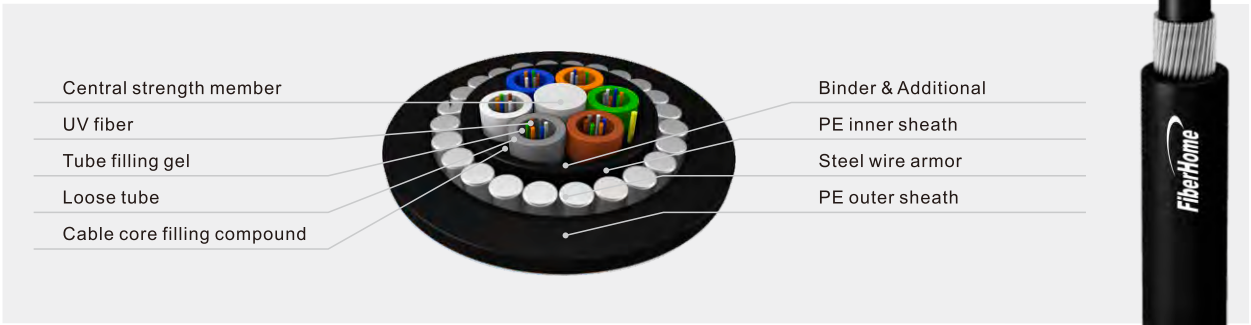
Fiber Count	Nominal Diameter (mm)	Nominal Weight (kg/km)	Max Fibers per Tube	No. of (Tubes + Fillers)	Allowable Tensile Load (N)		Allowable Crush Resistance (N/100mm)	
					Short Term	Long Term	Short Term	Long Term
2~36	14.1	193	6	6	2700	1000	3000	1000
38~72	15.1	212	12	6	2700	1000	3000	1000
74~96	16.3	246	12	8	2700	1000	3000	1000
98~120	17.8	288	12	10	2700	1000	3000	1000
122~144	19.4	336	12	12	2700	1000	3000	1000
>144	Available upon customer's request							

*Customized cable structure is available

Steel Wires Armored

GYTY33-Direct buried/ underwater/ Arial

- Phosphate or galvanized steel wire central strength member
- Loose tube stranded aluminum tape armor
- PE inner sheath
- Steel wire armored
- PE outer sheath outdoor cable



Performance

Application

- Long haul and building network communication

Operating Temperature

- -40°C~+70°C

Features and Benefits

Water-blocking construction

Special tube filling gel in loose tubes

Phosphate or galvanized steel wire as central strength member

Longitudinal coated aluminum tape and stranded steel wires

Moisture-proof and prevents water penetration
Reduce or eliminate reflection losses and prevent water penetration
High Corrosion resistance and Young's modulus
High desirable tensile strength and crush resistance, bullet proof property, heavy duty direct burial or underwater installation
Lifespan over 30 years

Strict craft and raw material control enable

- Note:
- According to different applications, GYTA333, GYTS33, GYTY53+33, GYTY53+333, GYTA53+33, GYTA53+333 can be provided
 - Customized cable structure is available

Technical Specification

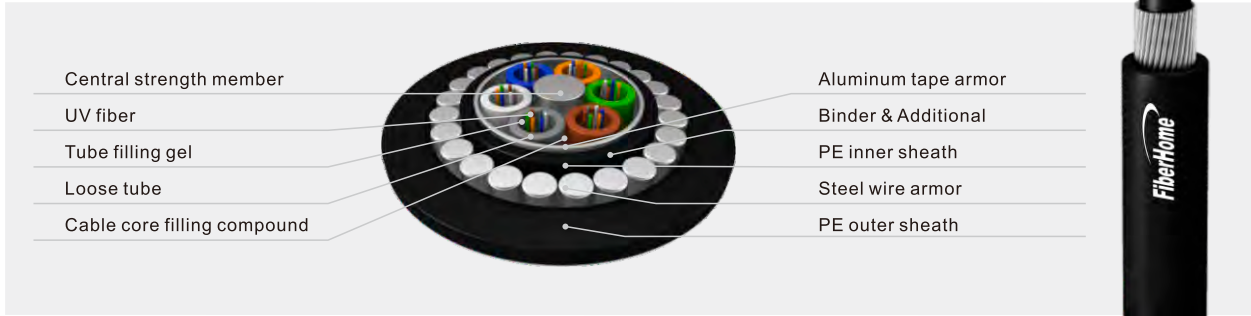
Fiber Count	Nominal Diameter (mm)	Nominal Weight (kg/km)	Max Fibers per Tube	No. of (Tubes + Fillers)	Allowable Tensile Load (N)		Allowable Crush Resistance (N/100mm)	
					Short Term	Long Term	Short Term	Long Term
2~30	15.5	407	6	5	10000	4000	5000	3000
32~36	16.0	437	6	6	10000	4000	5000	3000
38~60	16.6	463	12	5	10000	4000	5000	3000
62~72	17.2	499	12	6	10000	4000	5000	3000
>72	Available upon customer's request							

*Customized cable structure is available

All Terrin Cable

GYTA33-Direct buried/ underwater/ Arial

- Phosphate or galvanized steel wire central strength member
- Loose tube stranded aluminum tape armor
- PE inner sheath
- Steel wire armored
- PE outer sheath outdoor cable



Performance

- Application
- Under ground, long haul and building network communication
- Operating Temperature
- 40°C~+70°C

Features and Benefits

- | | |
|--|--|
| Water-blocking construction | Moisture-proof and prevents water penetration |
| Special tube filling gel in loose tubes | Reduce or eliminate reflection losses and prevent water penetration |
| Phosphate or galvanized steel wire as central strength member | High Corrosion resistance and Young's modulus |
| Longitudinal coated aluminum tape and stranded steel wires | High desirable tensile strength and crush resistance, bullet proof property, heavy duty direct burial or underwater installation |
| Strict craft and raw material control enable | Lifespan over 30 years |

Note:

- According to different applications, GYTA333, GYTS33, GYTY53+33,GYTY53+333, GYTA53+33, GYTA53+333 can be provided
- Customized cable structure is available

Technical Specification

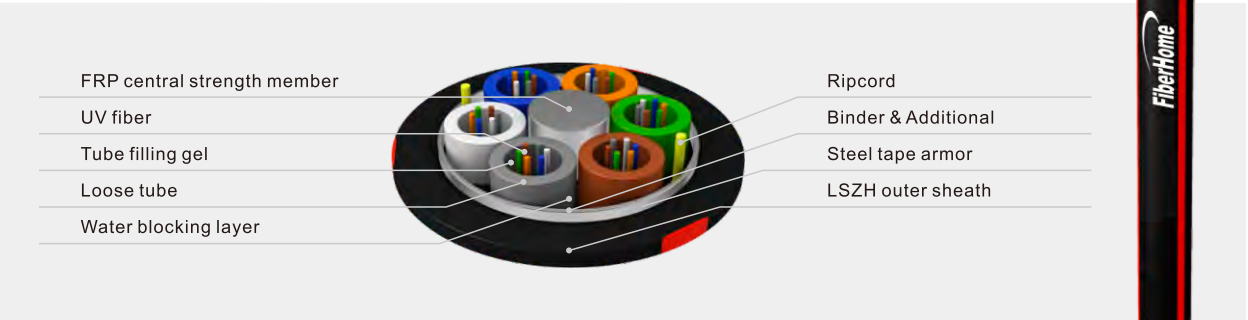
Fiber Count	Nominal Diameter (mm)	Nominal Weight (kg/km)	Max Fibers per Tube	No. of (Tubes + Fillers)	Allowable Tensile Load (N)		Allowable Crush Resistance (N/100mm)	
					Short Term	Long Term	Short Term	Long Term
2~30	17.3	540	6	5	10000	4000	5000	3000
32~36	17.8	578	6	6	10000	4000	5000	3000
38~60	18.3	603	12	5	10000	4000	5000	3000
62~72	18.8	647	12	6	10000	4000	5000	3000
>72	Available upon customer's request							

*Customized cable structure is available

Gel-Filled Armored

GYFZA -Duct/ Aerial

- Phosphate or galvanized steel wire central strength member
- Loose tube stranded
- Corrugated aluminum tape armored outdoor cable



Performance

- Application
- Long haul and building network communication
- Operating Temperature
- 40°C~+70°C

Features and Benefits

- | | |
|--|---|
| Water-blocking construction | Moisture-proof and prevents water penetration |
| Special tube filling gel | Reduce or eliminate reflection losses and prevent water penetration |
| Fiber Reinforced Plastic as central strength member | High Young's modulus |
| Strict craft and raw material control | Lifespan over 30 years |
| Customized longitudinal color strip | Easy identification, packing and maintenance |

Note:

- According to different applications, anti-termite optional.
- Armor can be change to steel tape, the type is GYFZS

Technical Specification

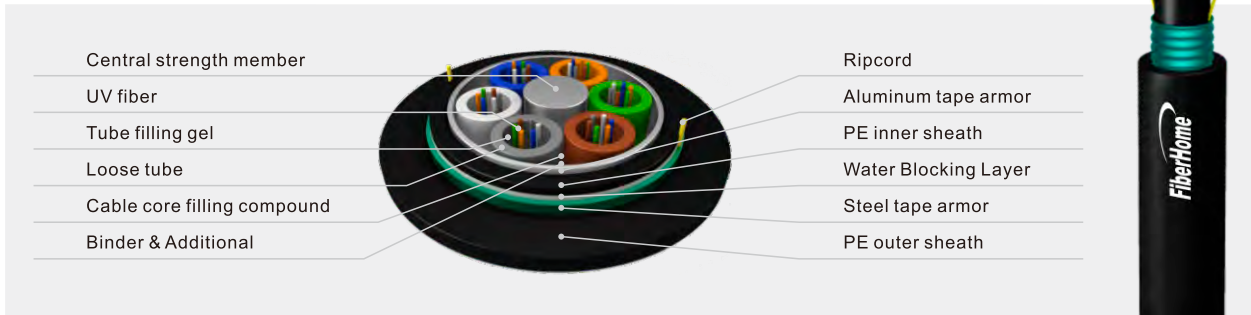
Fiber Count	Nominal Diameter (mm)	Nominal Weight (kg/km)	Max Fibers per Tube	No. of (Tubes + Fillers)	Allowable Tensile Load (N)		Allowable Crush Resistance (N/100mm)	
					Short Term	Long Term	Short Term	Long Term
2~36	9.7	90	6	5	1500	600	1000	300
38~72	10.3	109	6	6	1500	600	1000	300
74~96	10.8	119	12	5	1500	600	1000	300
98~120	11.5	145	12	6	1500	600	1000	300
122~144	13.5	175	12	8	1500	600	1000	300
>144	Available upon customer's request							

*Customized cable structure is available

Low Smoke Loose Tube Armored (Double Sheath)

GYFZA53-Direct buried in frequently lighting areas

- Fiber reinforced plastic central strength member
- Loose tube stranded
- PE inner sheath
- Corrugated steel tape armored double PE sheath



Performance

- Application**
- Under ground, long haul and building network communication
- Operating Temperature**
- -40°C~+70°C

Features and Benefits

- Water-blocking construction**
- Special tube filling gel in loose tubes**
- Fiber Einfoiced plastic as central strength member**
- Longitudinal coated aluminum tape and steel tape**
- Strict craft and raw material control enable**
- Moisture-proof and prevents water penetration
- Reduce or eliminate reflection losses and prevent water penetration
- High Corrosion resistance and Young's modulus
- High desirable tensile strength and crush resistance, bullet proof property, heavy duty direct burial or underwater installation
- Lifespan over 30 years

- Note:
- According to different applications, anti-termite, anti-rodent and anti-bullet are optional.
 - Longitudinal color strip on outer sheath can be provided according to customer's requests. More details, please refer to GYFZA.
 - Customized cable structure is available

Technical Specification

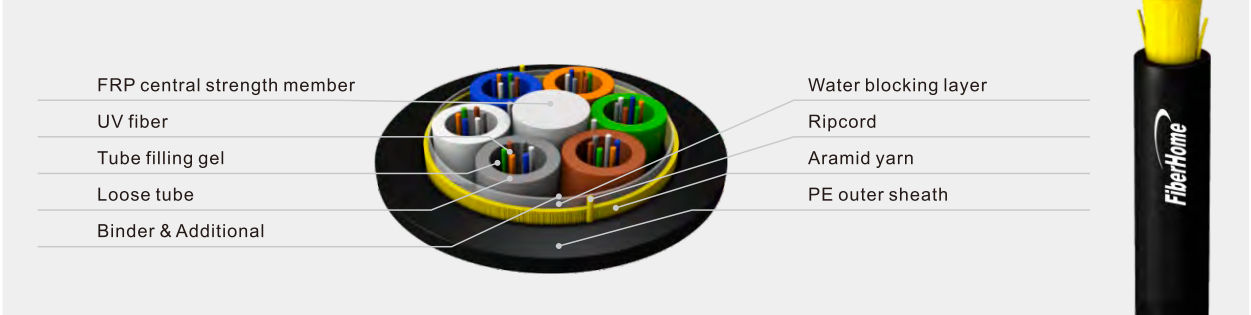
Fiber Count	Nominal Diameter (mm)	Nominal Weight (kg/km)	Max Fibers per Tube	No. of (Tubes + Fillers)	Allowable Tensile Load (N)		Allowable Crush Resistance (N/100mm)	
					Short Term	Long Term	Short Term	Long Term
2~36	13.9	204	6	6	3000	1000	3000	1000
38~72	15.1	244	12	6	3000	1000	3000	1000
74~96	17.1	296	12	8	3000	1000	3000	1000
98~120	18.6	340	12	10	3000	1000	3000	1000
122~144	20.2	391	12	12	3000	1000	3000	1000
>144	Available upon customer's request							

*Customized cable structure is available

Air Blow Loose Tube All Dielectric Cable

GCYFY -Aerial/ Duct

- Fiber reinforced plastic central strength member
- Tube filling gel
- Aramid yarn



Performance

- Application**
- Air blow in micro tube
- Operating Temperature**
- -40°C~+70°C

Features and Benefits

- Water-blocking construction**
- Special filling gel in loose tubes**
- Fiber reinforced plastic as central strength member**
- All dielectric construction design**
- Strict craft and raw material control enable**
- Customized longitudinal color strip**
- Moisture-proof and prevents water penetration
- Reduce or eliminate reflection losses and prevent water penetration
- High Corrosion resistance and Young's modulus
- Eliminates electromagnetic induction effect
- Lifespan over 30 years
- Easy identification, packing and maintenance

- Note:
- For flame retardant cable, outer sheath can be made of low-smoke zero halogen (LSZH) material, and the type is GCYFZY.
 - Longitudinal color strip on outer sheath can be provided according to customer's requests. More details please refer to GYFZA.
 - Special cable structure can be designed and manufactured upon customer's request.

Technical Specification

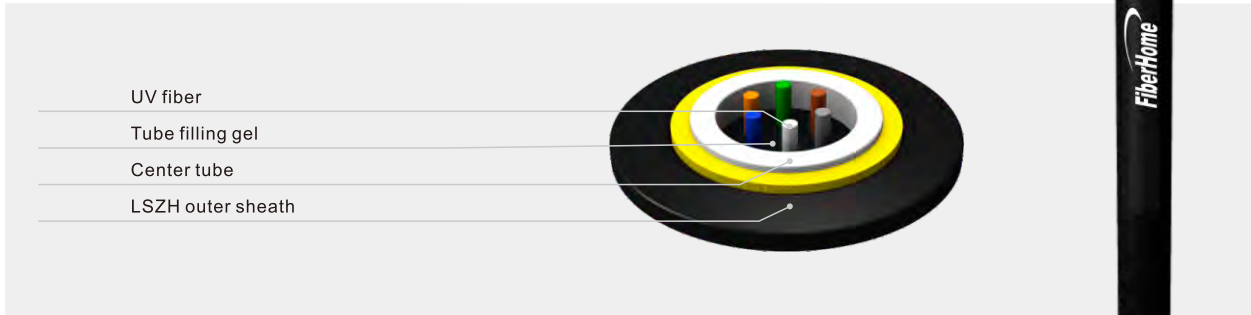
Fiber Count	Nominal Diameter (mm)	Nominal Weight (kg/km)	Allowable Tensile Load (N)		Allowable Crush Resistance (N/100mm)	
			Short Term	Long Term	Short Term	Long Term
12~48	6.0	32	100	160	1000	300
50~72	6.2	39	100	160	1000	300

*Customized cable structure is available

Air Blow Center Tube All Dielectric Cable

GCYFXY -Duct/ Aerial

- Center tube structure
- Aramid yarn



Performance

- Application**
- Long haul and building network communication

Operating Temperature

 - 40°C~+70°C

Features and Benefits

- | | |
|--|---|
| Water-blocking construction | Moisture-proof and prevents water penetration |
| Special tube filling gel | Reduce or eliminate reflection losses and prevent water penetration |
| Strict craft and raw material control | Lifespan over 30 years |
| Customized longitudinal color strip | Easy identification, packing and maintenance |

Note:

- For flame retardant cable, LSZH (Low-Smoke Zero Halogen) material is applicable to outer sheath and the type is GCYFZXTY
- Longitudinal color strip on outer sheath can be provided according to customer's requests. More details, please refer to GYFZA.

Technical Specification

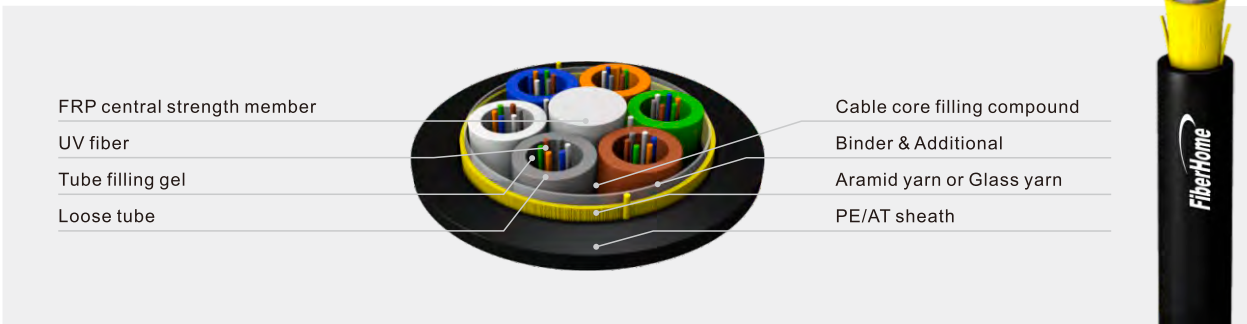
Fiber Count	Nominal Diameter (mm)	Nominal Weight (kg/km)	Allowable Tensile Load (N)		Allowable Crush Resistance (N/100mm)	
			Short Term	Long Term	Short Term	Long Term
1~24	4.4	18	100	160	1000	300

*Customized cable structure is available

All-Dielectric Self-Supporting

ADSS (short span) -Aerial

- Fiber reinforced plastic central strength member
- Loose tube stranded
- PE sheath all-dielectric
- Self-supporting aerial cable



Performance

- Application**
- The actual status of overhead power lines

Operating Temperature

 - 40°C~+70°C

Features and Benefits

- | | |
|---|--|
| Water-blocking construction | Moisture-proof and prevents water penetration |
| Special filling gel in loose tubes | Reduce or eliminate reflection losses and prevent water penetration |
| All dielectric construction design | Eliminates electromagnetic induction effect |
| Strict craft and raw material control enable | Lifespan over 30 years |
| Customized longitudinal color strip | Easy identification, packing and maintenance |
| High voltage fields | Special PEIAT (anti-tracking) outer sheath suitable for installation in induced voltage fields |

Note:

- The cable technology parameters and fiber count, weather, span can be designed according to the project's requirement
- For the actual status of overhead power lines and the load on pole and towers suspension point. AT outer sheath is applied
- Span no longer than 200m.

Technical Specification

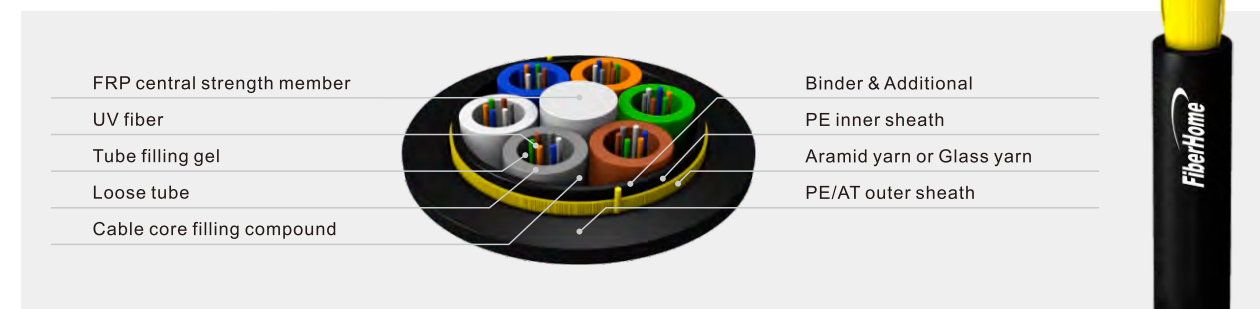
Fiber Count	Nominal Diameter (mm)	Nominal Weight (kg/km)	Max Fibers per Tube	No. of (Tubes + Fillers)	Allowable Tensile Load (N)		Allowable Crush Resistance (N/100mm)	
					Short Term	Long Term	Short Term	Long Term
2~36	10.7	92	6	6	2700	1000	1000	300
38~72	11.6	103	12	6	2700	1000	1000	300
74~96	13.3	149	12	8	2700	1000	1000	300
98~120	14.8	180	12	10	2700	1000	1000	300
122~144	16.4	222	12	12	2700	1000	1000	300
146~216	18.8	224	12	18 (2layers)	2700	1000	1000	300
>216	Available upon customer's request							

*Customized cable structure is available

All-Dielectric Self-Supporting

ADSS (Long Span) -Aerial

- Fiber reinforced plastic central strength member
- Loose tube stranded
- PE sheath all-dielectric
- Self-supporting aerial cable



Performance

Application

- The actual status of overhead power lines

Operating Temperature

- -40°C~+70°C

Features and Benefits

Water-blocking construction

Special filling gel in loose tubes

All dielectric construction design

Strict craft and raw material control enable

Customized longitudinal color strip

High voltage fields

Moisture-proof and prevents water penetration

Reduce or eliminate reflection losses and prevent water penetration

Eliminates electromagnetic induction effect

Lifespan over 30 years

Easy identification, packing and maintenance

Special PEIAT (anti-tracking) outer sheath suitable for installation in induced voltage fields

Note

- The cable technology parameters and fiber count, weather, span can be designed according to the project's requirement
- For the actual status of overhead power lines and the load on pole and towers suspension point. AT outer sheath is applied
- Large span lengths and the largest span is over 1200m

Technical Specification

Fiber Count	Nominal Diameter (mm)	Nominal Weight (kg/km)	Max Fibers per Tube	No. of (Tubes + Fillers)	Allowable Tensile Load (N)		Allowable Crush Resistance (N/100mm)	
					Short Term	Long Term	Short Term	Long Term
2~36	10.7	92	6	6	2700	1000	1000	300
38~72	11.6	103	12	6	2700	1000	1000	300
74~96	13.3	149	12	8	2700	1000	1000	300
98~120	14.8	180	12	10	2700	1000	1000	300
122~144	16.4	222	12	12	2700	1000	1000	300
146~216	18.8	224	12	18 (2layers)	2700	1000	1000	300
>216	Available upon customer's request							

* The cable technology parameters and fiber count, weather, span can be designed according to the project's requirement

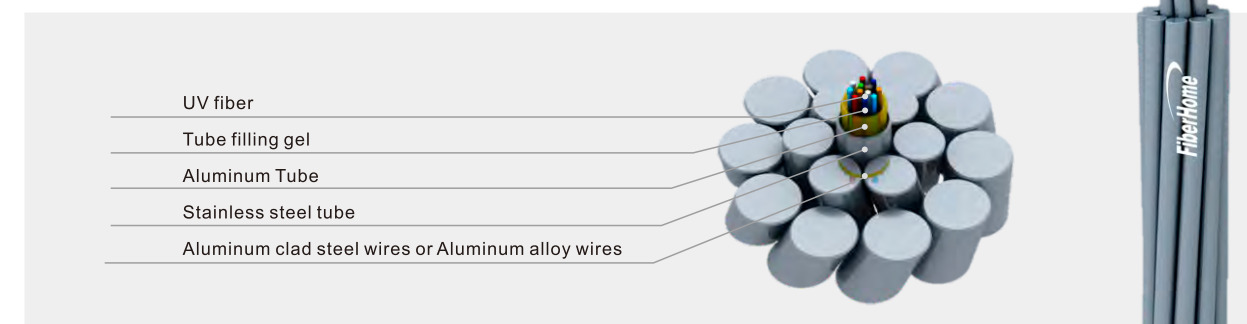
* For the actual status of overhead power lines and the load on pole and towers suspension point. AT outer sheath is applied

* Longest span 1200m

Central Aluminum Tube Optical Fiber Composite Overhead Ground Wire

OPGW -Aerial on high-voltage tower

- Aluminum wire
- Central stainless steel tube



Performance

Application

- The actual status of overhead power lines

Operating Temperature

- -40°C~+70°C

Features and Benefits

Central Aluminum tube

Anti-corrosion filling compound

Single layer of AS wires double/triple layers of both AS and AA wires

Special filling gel in tube

Strict craft and raw material control enable

Good mechanical and thermal protection

Protect optical fiber and cable

Large short-circuit current capacity

Provides good protection for optic fiber

Lifespan over 30 years

Note

- The cable can be with Aluminum clad steel wires or Aluminum alloy wires
- Stainless steel central tube or Aluminum central tube are optional

Technical Specification

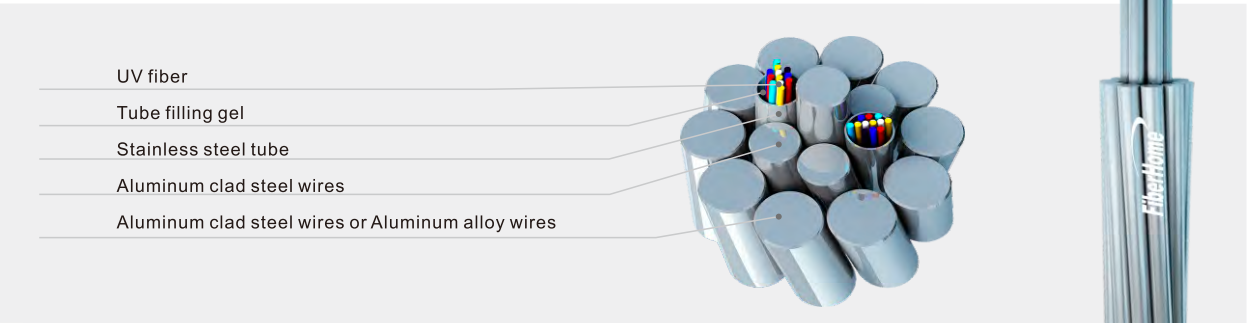
Max Fiber	Type	Aluminum clad steel wires (mm²)	Nominal Diameter (mm)	Nominal Weight (kg/km)	20°C DC resistance (Ω/km)	40-200°C Allowable shortcut current capacity (kA2.s)	Allowable Tensile Load (kN)
24	OPGW-24B1-40 [51.0; 9.0]	40	9	305	≤2.10	≥9	≥51
24	OPGW-24B1-50 [58.0; 11.5]	50	9.6	345	≤1.82	≥11.5	≥58
48	OPGW-48B1-70 [77.0; 24.0]	70	11.4	475	≤1.30	≥24	≥77
48	OPGW-48B1-70 [42.0; 38.0]	70	11.4	345	≤0.70	≥38	≥42

*Customized cable structure is available

Stranded Stainless Steel Wire Optical Fiber Composite Overhead Ground Wire

OPGW -Aerial on high-voltage tower

- Aluminum wire
- Stranded stainless steel tube



Performance

- Application**
- The actual status of overhead power lines

Operating Temperature

 - 40°C~+70°C

Features and Benefits

- Stranded stainless steel tube**
Anti-corrosion filling compound
Single layer of AS wires double/triple layers of both AS and AA wires
Strict craft and raw material control enable
- Good mechanical and thermal protection
Protect optical fiber and cable
Large short-circuit current capacity
Lifespan over 30 years

- Note
- The cable can be Aluminum clad steel wires or Aluminum alloy wires

Technical Specification

Max Fiber	Type	Aluminum clad steel wires (mm²)	Nominal Diameter (mm)	Nominal Weight (kg/km)	20°C DC resistance (Ω/km)	40-200°C Allowable shortcut current capacity (kA2.s)	Allowable Tensile Load (kN)
24	OPGW-24B1-100 [118.0; 50.0]	100	13.2	674	≤0.93	≥50	≥118
36	OPGW-36B1-120 [145.0; 73.0]	120	14.6	820	≤0.77	≥73	≥145
48	OPGW-48B1-150 [182.0; 123.0]	150	16.6	1055	≤0.60	≥123	≥182
72	OPGW-72B1-120 [96.0; 101.0]	120	15.2	591	≤0.53	≥101	≥96

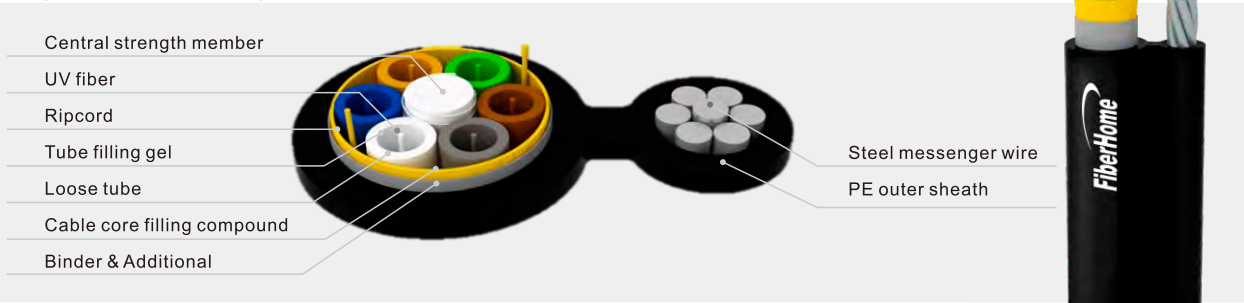
*Customized cable structure is available

Gel-Free Loose Tube Self Support Aerial Cable For Distribution

(Figure-8; Steel Central Strength Member Aluminum Tape Armored)

GYFC8A -Aerial

- Phosphate or galvanized steel wire Central strength member
- Loose tube stranded
- PE sheath
- Figure 8 self-supporting aerial cable



Performance

- Application**
- Long haul and building network communication

Operating Temperature

 - 40°C~+70°C

Features and Benefits

- Water-blocking construction**
Special filling gel in tube
Easy installation
Phosphate or galvanized steel wire as hanging member
- Moisture-proof and prevents water penetration
Reduce or eliminate reflection losses and prevent water penetration
One core for each tube, suitable for distribution
Figure-8 self-supporting structure presents high tensile strength and enables easy and cost saving aerial installation
Lifespan over 30 years

- Strict craft and raw material control enable**
- Note:
- Span within 50 meters, longer span available.
 - For flame retardant cable, LSZH (Low-Smoke Zero Halogen) material is applicable to outer sheath and the type is GYC8S/A/Y
 - Longitudinal color strip on outer sheath can be provided according to customer's requests. More details, please refer to GYFZA.

Technical Specification

Fiber Count	Nominal Diameter (mm)	Nominal Weight (kg/km)	Max Fibers per Tube	No. of (Tubes + Fillers)	Allowable Tensile Load (N)		Allowable Crush Resistance (N/100mm)	
					Short Term	Long Term	Short Term	Long Term
8	9.5x 17.5	160	1	8	7000	4000	1000	300
12	11.0x 19.5	190	1	12	7000	4000	1000	300
24	13.3x 21.3	230	1	24	7000	4000	1000	300

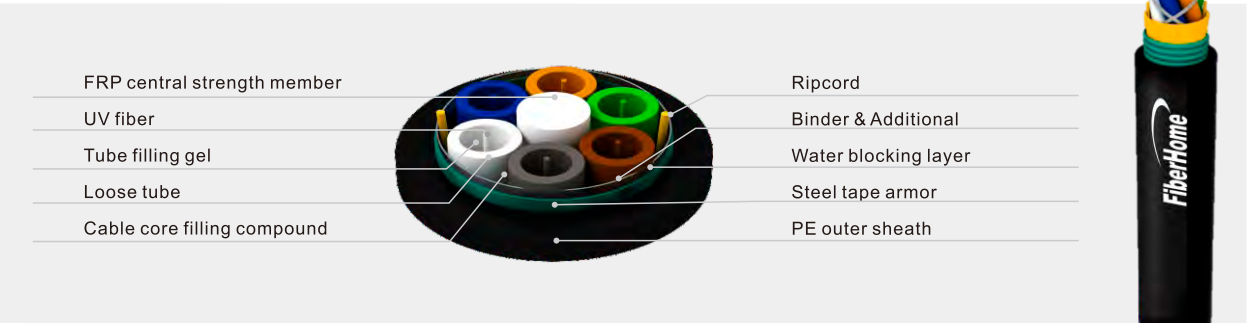
*Customized cable structure is available

Gel-Free Loose Tube Armored Cable For Distribution

(Single Sheath)

GYA -Duct/ Aerial

- Fiber reinforced plastic central strength member
- Loose tube stranded
- Corrugated steel tape armored outdoor cable



Performance

- Application**
- Long haul and building network communication
- Operating Temperature**
- -40°C~+70°C

Features and Benefits

- Water-blocking construction and PSP sheath**
- Moisture-proof and prevents water penetration
- Special tube filling gel**
- Reduce or eliminate reflection losses and prevent water penetration
- Easy installation**
- One core for each tube, suitable for distribution
- Fiber Reinforced Plastic as central strength member**
- High Young's modulus
- Strict craft and raw material control**
- Lifespan over 30 years
- Customized longitudinal color strip**
- Easy identification, packing and maintenance

- Note:
- According to different applications, anti-termite optional
 - For flame retardant cable, LSZH (Low-Smoke Zero Halogen) material is applicable to outer sheath and the type is GYFZS
 - Longitudinal color strip on outer sheath can be provided according to customer's requests. More details, please refer to GYFZA

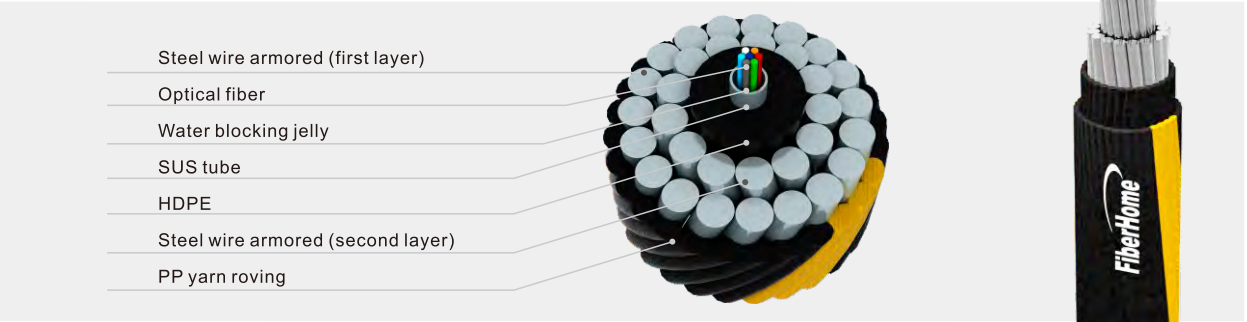
Technical Specification

Fiber Count	Nominal Diameter (mm)	Nominal Weight (kg/km)	Max Fibers per Tube	No. of (Tubes + Fillers)	Allowable Tensile Load (N)		Allowable Crush Resistance (N/100mm)	
					Short Term	Long Term	Short Term	Long Term
8	11.1	110	1	8	1500	600	1000	300
12	12.4	140	1	12	1500	600	1000	300
24	14.7	187	1	24	1500	600	1000	300

Double Steel Wire Armored Cable (DA)

Submarine cable Undersea laying and burial

- Stainless steel tube optical fiber unit
- HDPE inner sheath
- Steel wire armored
- Bitumen flooding
- PP yarn roving



Performance

- Application**
- Submarine cable communication system
- Operating Temperature**
- -20°C~+50°C

Features and Benefits

- Central stainless steel tube**
- Good mechanical and thermal protection
- Special filling gel in loose tubes**
- Reduce or eliminate reflection losses and prevent water penetration
- Stainless steel tube is drawn and pulled out after welding**
- Fiber excess lengths are controlled precisely

- Note:
- The cable is designed to protect the optical fiber from the harsh undersea environment for 25 years.
 - Both repeaterless and repeateredtypes are available as lightweight (LW), lightweight-protected (LWP), single-armored (SA), double armored (DA) and rock armored (RA) cables.
 - Operate up to water depths of 8,000m.

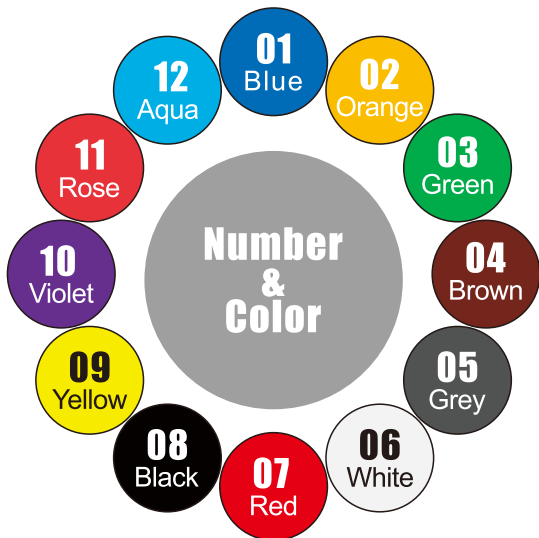
Technical Specification

Outer diameter (mm)	Weight in air (kg/m)	Weight in sea water (kg/m)	CBL (kN)	NTTS (kN)	NOTS (kN)	NPTS (kN)	Cable modulus (km)	Impact (N.m)	Crush (kN/100mm)	Operating temperature (°C)
34	3.3	2.3	400	240	160	120	17.7	400	40	-20~+50
Repeated bending (cycle)	Min allowable bend radius under zero tension (m)		Position stability factor (kg/mm.km)		Hydrodynamic coefficient (m/s)		Water depth (m)	Storage temperature (°C)	DC resistance at 20°C (Ω/km)	
30	1		69		1.05		500	-30~+60	≤6.0 (C01 core)	

Appendix A – Color Identification

Color Identification for Fiber

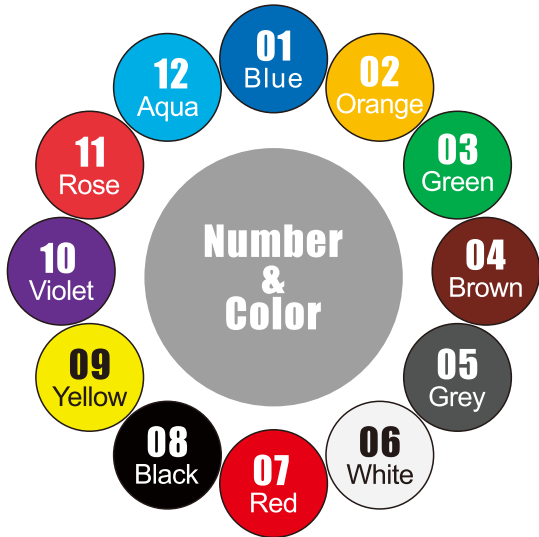
Fiber shall be colored as per IEC-60793-2 and TIA/EIA-598-C standards



- Note:
- If fiber count is less than 12 in one tube, sequence should be selected successively starting from the 1st;
 - Special color coding is available upon customer's request;
 - The color of the actual product may differ from the color pictured in this catalog due to printing limitation.

Color Identification for Tube

All color identification as per TIA/EIA-598-C standard



- Note:
- If tube count is less than 12 in the cable, sequence should be selected successively starting from the 1st;
 - Special color coding is available upon customer's request;
 - The color of the actual product may differ from the color pictured in this catalog due to printing limitation.

Appendix B – Cable for Applications

Duct Application			
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	Corrugated Tape Armored Cable	GYFS/A	Page 7
	Gel-Filled Armored Ribbon Cable	GYDTS/A	Page 8
	All-Dielectric Self Supporting	GYFTCY	Page 14
	Gel-Free Loose Tube Cable	GYFY	Page 15
	Gel-Filled Armored Cable	GYFTZA	Page 21
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	Central Tube All Dielectric Air-blown Cable	GCFYFY	Page 23
Aerial Application			
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	All-Dielectric Self Supporting	GYFTCY	Page 14
	Gel-Free Loose Tube Cable	GYFY	Page 15
	Central Tube Self Support Aerial Cable	GYXTC8Y/S	Page 16
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	All Terrain Cable	GYTA33	Page 19
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Direst Buried Application			
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	Gel-Filled Loose Tube All Dielectric Cable	GYFCY	Page 14
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	Gel-Free Loose Tube All Dielectric Air-blown Cable	GCFYFY	Page 22
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Power Line Application			
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Underwater Application			
	Double Steel Wire Armored Cable (DA)	Submarine cable	Page 30
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Our Advantages

Industry-leading R&D

There are 12, 000 employees in FiberHome Technologies, including one academician of Chinese Academy of Engineering, 8 state-class young and middle-aged experts with outstanding contributions and 22 members of ITU-T experts.

FiberHome has launched numerous researches and practices in cable materials characteristics, cable construction, manufacturing technology, measuring and testing techniques as well as lifespan of cable. In addition, FiberHome's unique method of precisely controlling and measuring the excess length of fiber in the cable ensures that the attenuation performance of the optical fiber is superior to that of the similar products.

FiberHome has been playing a dominant role in drafting more than 200 national and industry standards, including taking charge of compiling 3 international recommendations and 35 national standards. In recent years, FiberHome has presented more than 100 patent applications every year and owned over 500 authorized patents to its credit.

Complete Manufacture Platform

A huge advantage we have over other optic cable manufacturers is that our total production lines from optical fiber preform to the end product of a finished cable. We are therefore able to provide abundant and customized products for customers worldwide and monitor and assess quality throughout all stages of production.

The optical fiber provided by FiberHome can be divided into two major kinds, namely ordinary fiber and special fiber. The ordinary fiber includes multimode fiber used in gigabyte-Ethernet and single mode fiber such as G.652, G.655, 657, LL, ULL and etc. The special fiber includes dispersion compensation fiber, Er-doped fiber, Er-Yb co-doped fiber, polarization maintenance fiber, plastic fiber. The research and manufacturing of the above products have reached the advanced level internationally and the products can meet the requirement of carriers and enterprise communications.

In order to cater at various telecom operators, telecom companies and private network users, FiberHome can provide more than fifty varieties of communication cables of three major series, namely layer stranded series, slotted core series and central tube series, which are applicable to aerial, duct, direct-burial and underwater application and can meet the requirement of optical network connection at various levels such as backbone, metro, access, etc. FiberHome can also provide various kinds of special type optical cable such as fiber ribbon cable with large fiber count, ADSS cable, flame retardant cable, anti-rodent cable, anti-termite cable, non-metal cable, FTTx cable and indoor cable

Certified Process and Environment

In recent years, FiberHome intense drive for superior quality and manufacturing processes for optical fibers, cables, and interconnection products has been recognized by the completion of numerous certifications. They include ISO9001 certification for superior quality system from Underwriters Laboratories. It also includes ISO14001 certification from Underwriters Laboratories for its proven Environmental Management System. For information about our quality control procedures, please contact us directly and we will be glad to address any questions or comments that you may have.

- 2002 UL Certification (OFNR)
- 2004 TLC Certification
- 2006 RoHS Certification
- 2008 SA8000 and OHSA 18000 Certification
- 2009 TISI Certification
- 2011 TL9000 Certification
- 2012 CNAS Certification
- 2014 Telcordia Certificate

Broaden Your Future

FiberHome International Technologies Co., Ltd Representative Office Directory

Business Department of Beijing

Address: 6th floor 7th door, Dacheng Plaza, No.28 Xuanwumen West Street, Xicheng District, Beijing, China
Mobile: 0086-13707143540

Wuhan FiberHome International (Malaysia) SDN. BHD.

Address: Level 43 South Wing , Menara TM, Jalan Pantai Baharu, Kuala Lumpur 59100, Malaysia
Office Tel: 0060-0322414780
Fax: 0060-379600008
Mobile: 0060-133444260
Public E-mail: fhmalaysia@fiberhome.com

FiberHome International (Thailand) CO., LTD.

Address: 25/Floor RASA Tower I 555, Phaholyothin 19, Phaholyothin Rd., Chatuchak, Bangkok 10900 , Thailand.
Office Tel: 0066-29370488
Fax: 0066-02 9370489
Mobile: 0066-823232888 / 0066-859149369
Public E-mail: fhthailand@fiberhome.com

Representative Office of Philippines

Address: 15C 19D, Rufino Pacific Tower , 6784 Ayala Ave.cor V.A. Rufino St. , Makati City, Philippines
Office Tel: 804-2872/ 804-2859 / 804-2854
Mobile: 0063-9199977977 / 0063-9499088881
Fax: 0063 (02) 804- 2859

Representative Office of Indonesia

Address: APL Office tower 30th floor, Unit T7. Jalan LetJen, S.Parman, Kav Jakarta, Indonesia
Office Tel: 0062-21-29670650
Mobile: 0062-8138282622
Public E-mail: fhindonesia@fiberhome.com

Representative Office of India

Address: C-48, Sector-65, Noida (U.P.), India- 201306
Office Tel: 0091-1202403970
Fax: 0091-01202403971
Mobile: 0091-9810400367 / 0091-9818140118
Public E-mail: fhindia@fiberhome.com

Representative Office of Russia

Address: 119415, Russia, Moscow, Prospect Vernadskovo 37-2, office 2
Office Tel: 007-4959389347 / 007-495-6481872
Fax: 007-4959389347 / 007-495-6481872
Mobile: 007-9647981195 / 9852886807 / 9629490984 / 9163939638

Representative Office of Pakistan

Address: Office 307, 3rd floor, SADA Business Center 1 Riyadh 11557, KSA
Office Tel: 0092-512816184
Fax: 0 092-51-2816185
Mobile: 0092-3125189262

Representative Office of Algeria

Address: 126 Campagne Semmar 1612 Birkhadem,Alger
Office Tel: 00213-23-597464
Fax: 00213-23-597175
Mobile: 00213-662859590

Representative Office of Africa

Address: Westland, Waiyaki way, Brookside Grove, Nairobi Kenya; A1W , Northfield , 5th Street , Avenue , Harare , Zimbabwe; Av. Eduardo Mondlane 127 Maputo Mozambique
Office Tel: +256-705093483; +263-783283362; +258-827740349

Representative Office of Latin America I

Address: Av. Republica de El Salvador N36-110 between Suecia and Naciones Unidas .Metroplaza Building, Office N°201;Oficina 502, Edificio Centro 95, Cra 11A, No. 94A-56, Bogota, Colombia;
DPT306,480 Grimaldo del Solar,Miraflores,Lima,Peru;
Office Tel: +593-2-2461451; +57(1)6408955;
Fax: +593-22461451 (Ecuador)
Mobile: +593-8401216; +57-3208618480

Representative Office of Latin America II

Address: Oficina 303, Los Leones 382, Providencia, Santiago de Chile
Office Tel: 0056-0228644011
Fax: 0056-967587028

Representative Office of Brazil

Address: Alameda Vicente Pinzon, 144 - 9º. Andar - cj. 93 - Vila Olimpia - São Paulo/SP - Brasil
Office Tel: 0055(11)-3938-9133
Mobile: 0055(11)-963494380

Representative Office of Middle East

Address: No.371, 4th St, Golestan St., Iranzamin St., San'at Sqr., Shahrak Ghods, Tehrn, Iran
Office Tel: 0098-2188093055 / 0098-2188561634
Fax: 0098-2188561579
Mobile: 0098-9123440293 / 9100988318
Public E-mail: fhiran@fiberhome.com; writehranoffice@sepanta.net"

Representative Office of Saudi Arabia

Address: Office 307,3rd floor, SADA Business Center 1 Riyadh 11557, KSA
Mobile: 0096-6598247315

Representative Office of Europe

Address: Magnolienweg 10, 53177 Bonn, Germany
Office Tel: 0049-228-2277-9275
Fax: 0049-228-2277-9276
Mobile: 0049-151-2826-6542 / 0049-151-1892-8815
Public E-mail: euinfo@fiberhome.com

Representative Office of Vietnam

Address: Eurowindow room 1603, No 27 Tran Duy Hung Street, Trung Hoa Ward, Cau Giay District, Ha Noi, Viet Nam
Office Tel: 0084-4-32222853 / 0084-4-32222854
Mobile: 0084-914310745

South Asia and Europe Customer Service Center

Address: C-48, Sector-65, Noida (U.P.), India- 201306
Office Tel: 0091-1202403970
Fax: 0091-01202403971
Mobile: +91-9953327739
Public E-mail: fhindia@fiberhome.com

Middle East Customer Service Center

Address: No.371, 4th St, Golestan St., Iranzamin St., San'at Sqr., Shahrak Ghods, Tehrn, Iran
Office Tel: 0098-2188093055 / 0098-2188561634
Fax: 0098-2188561579
Mobile: 0912-3306547
Public E-mail: fhiran@fiberhome.com; writehranoffice@sepanta.net