



Cabling Solutions



OPTICAL FIBER CABLE Product Catalogue



021-57 402

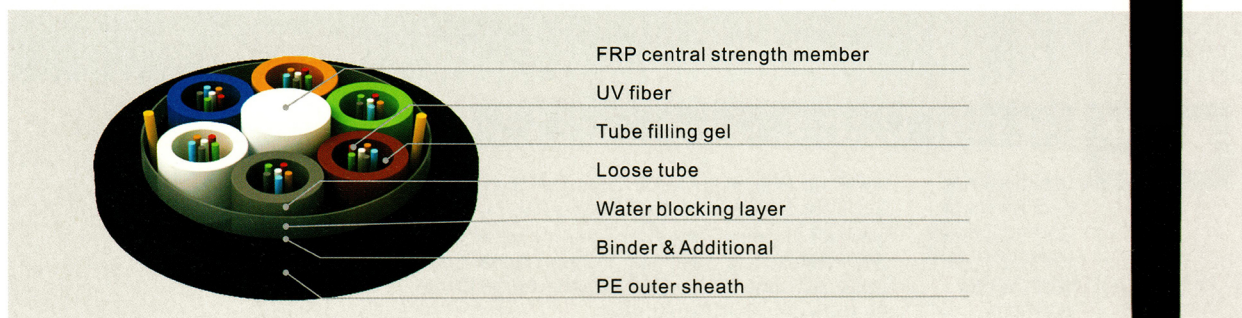


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Gel-Free Loose Tube All Dielectric Cable

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°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:

- ⊙ 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

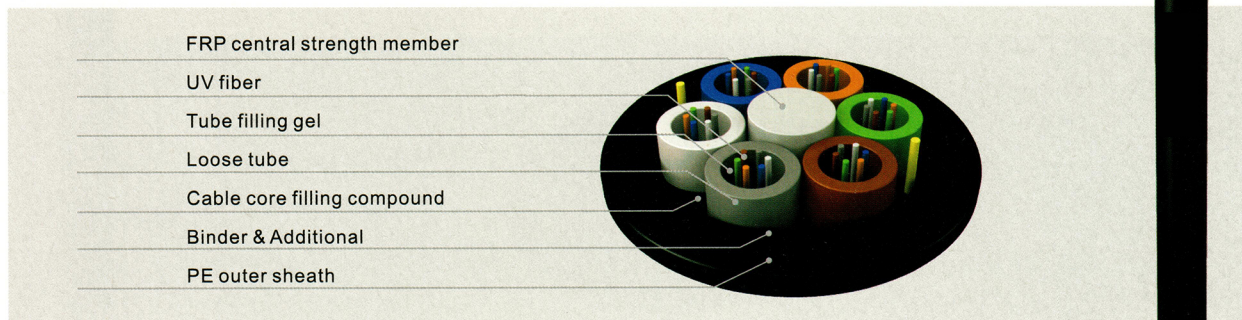
Fiber Count	Nominal Diameter (mm)	Nominal Weight (kg/km)	Max Fibers per Tube	No. of (Tubes + Fillers)	Allowable Tensile Load (N)		Allowable Crush Resistance (N/100mm)	
					Short Term	Long Term	Short Term	Long Term
2~36	10.2	85	6	6	1500	600	1000	300
38~72	11.1	100	12	6	1500	600	1000	300
74~96	12.6	130	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°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:

- ⊙ 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

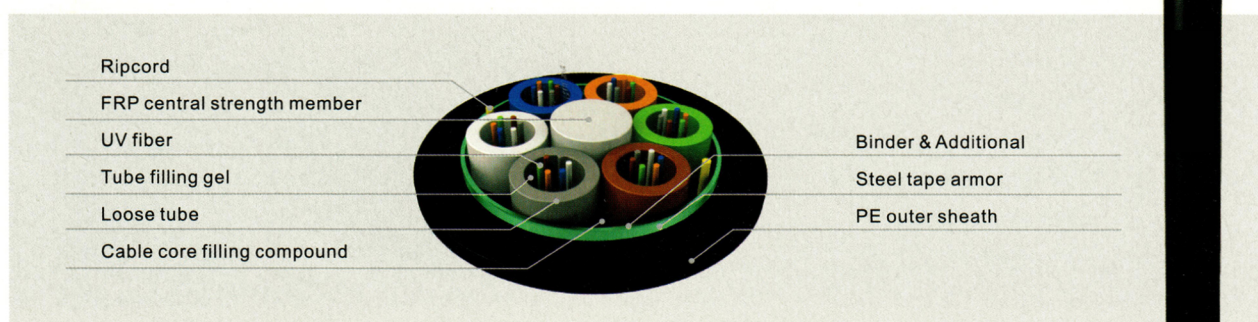
Fiber Count	Nominal Diameter (mm)	Nominal Weight (kg/km)	Max Fibers per Tube	No. of (Tubes + Fillers)	Allowable Tensile Load (N)		Allowable Crush Resistance (N/100mm)	
					Short Term	Long Term	Short Term	Long Term
2~36	10.2	85	6	6	1500	600	1000	300
38~72	11.1	100	12	6	1500	600	1000	300
74~96	12.6	130	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

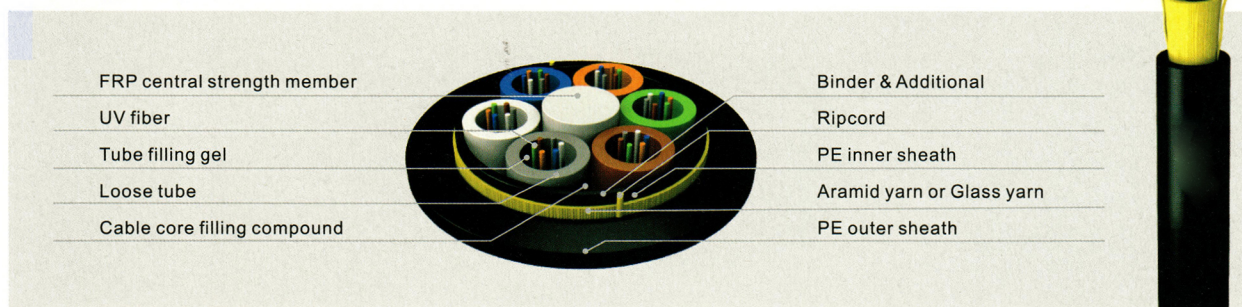
Fiber Count	Nominal Diameter (mm)	Nominal Weight (kg/km)	Max Fibers per Tube	No. of (Tubes + Fillers)	Allowable Tensile Load (N)		Allowable Crush Resistance (N/100mm)	
					Short Term	Long Term	Short Term	Long Term
2~36	11.4	130	6	6	1500	600	1000	300
38~72	12.5	152	12	6	1500	600	1000	300
74~96	14.2	194	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

Special filling gel in loose tubes

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

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, 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

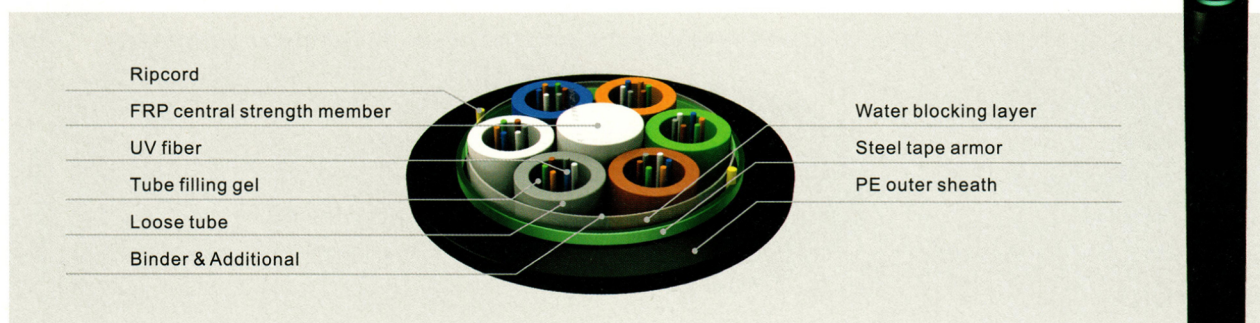
Fiber Count	Nominal Diameter (mm)	Nominal Weight (kg/km)	Max Fibers per Tube	No. of (Tubes + Fillers)	Allowable Tensile Load (N)		Allowable Crush Resistance (N/100mm)	
					Short Term	Long Term	Short Term	Long Term
2~36	10.7	92	6	6	2700	1000	1000	300
38~72	11.6	103	12	6	2700	1000	1000	300
74~96	13.3	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

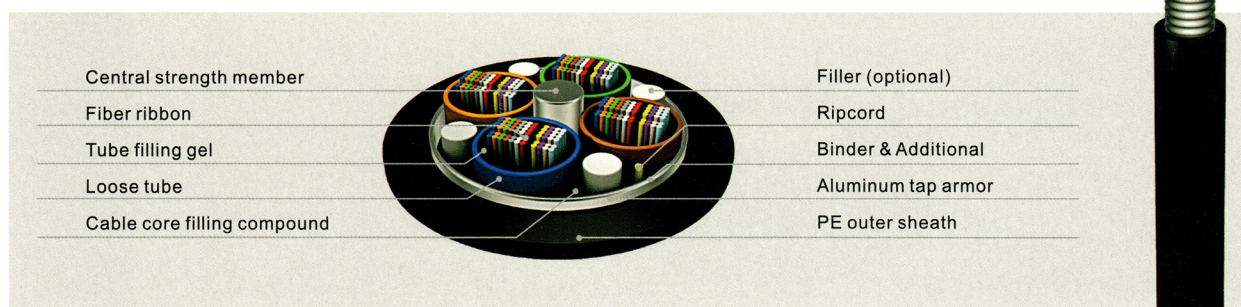
Fiber Count	Nominal Diameter (mm)	Nominal Weight (kg/km)	Max Fibers per Tube	No. of (Tubes + Fillers)	Allowable Tensile Load (N)		Allowable Crush Resistance (N/100mm)	
					Short Term	Long Term	Short Term	Long Term
2~36	9.9	110	6	5	1500	600	1000	300
38~72	10.6	133	6	6	1500	600	1000	300
74~96	11.4	140	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

Special filling gel in loose tubes

Phosphate or galvanized steel wire as central strength member

High fiber density

Strict craft and raw material control

Customized longitudinal color strip

Fiber ribbon options

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

Moisture-proof and prevents water penetration

Reduce or eliminate reflection losses and prevent water penetration

High Corrosion resistance and Young's modulus

Convenient installation and cost savings

Lifespan over 30 years

Easy identification, packing and maintenance

4-fiber ribbon 6-fiber ribbon, 8-fiber ribbon, 12-fiber ribbon

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							

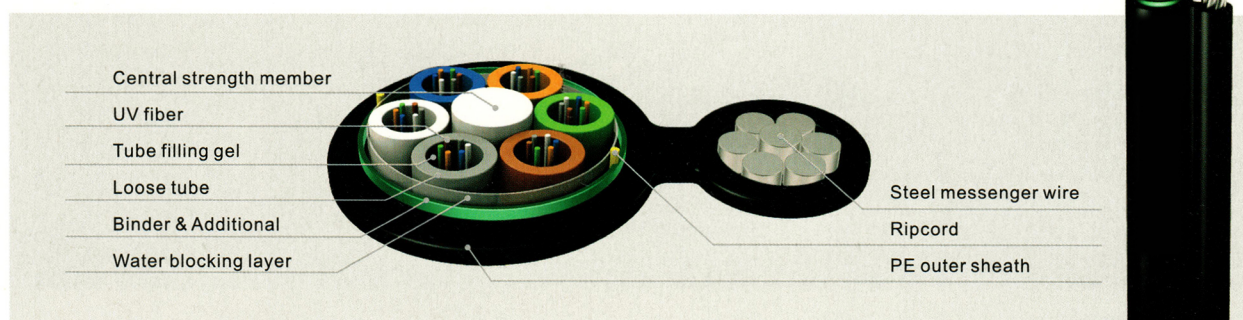
*Customized cable structure is available

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

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

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.

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

Technical Specification

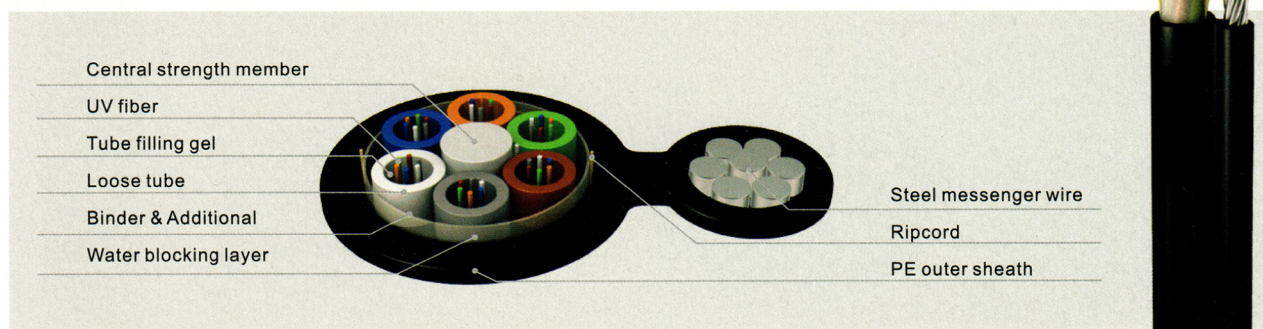
Fiber Count	Nominal Diameter (mm)	Nominal Weight (kg/km)	Max Fibers per Tube	No. of (Tubes + Fillers)	Allowable Tensile Load (N)		Allowable Crush Resistance (N/100mm)	
					Short Term	Long Term	Short Term	Long Term
2~30	9.4x 17.4	156	6	5	7000	4000	1000	300
32~36	10.0x 18.0	170	6	6	7000	4000	1000	300
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

Special filling gel in loose tubes

Phosphate or galvanized steel wire as hanging member

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

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							

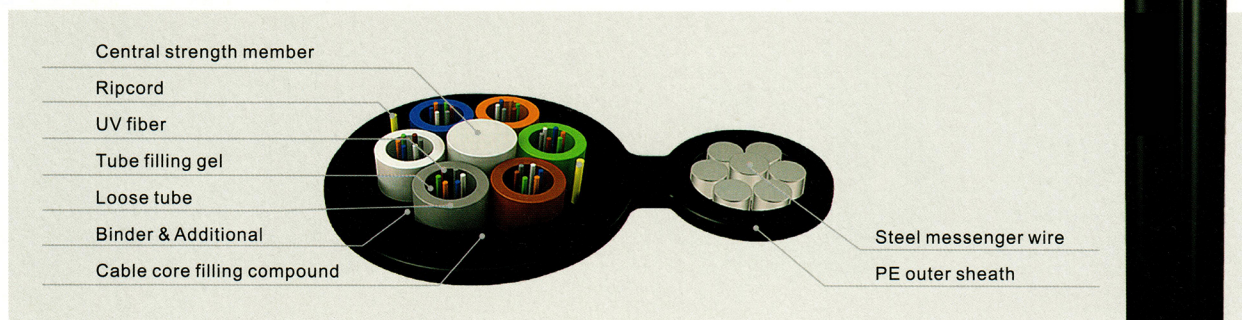
*Customized cable structure is available
Customized cable structure is available

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

Special filling gel in loose tubes

Phosphate or galvanized steel wire as hanging member

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

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							

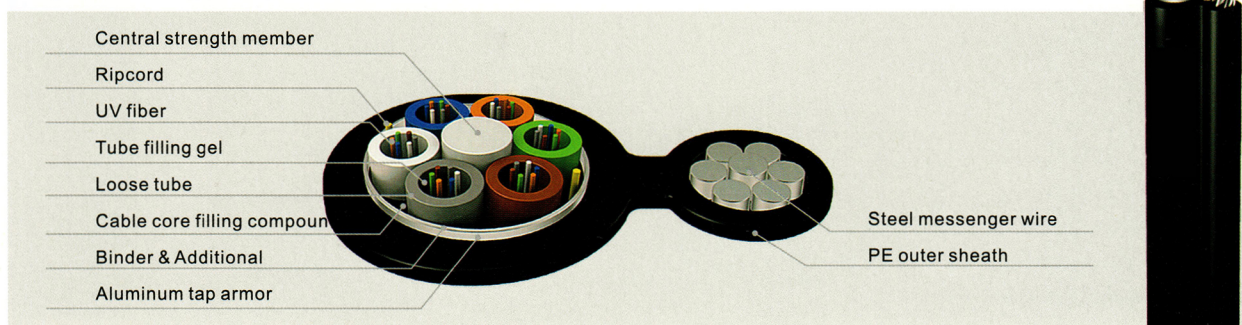
*Customized cable structure is available

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

Special filling gel in loose tubes

Phosphate or galvanized steel wire as hanging member

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

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							

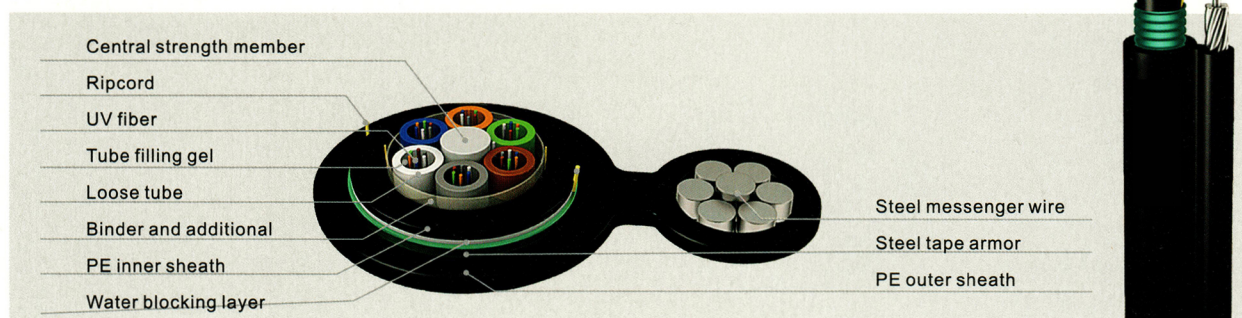
*Customized cable structure is available

Gel-Free Loose Tube Self Support Aerial Cable

(Figure-8; Aluminum Tape 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

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, bullet proof property

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							

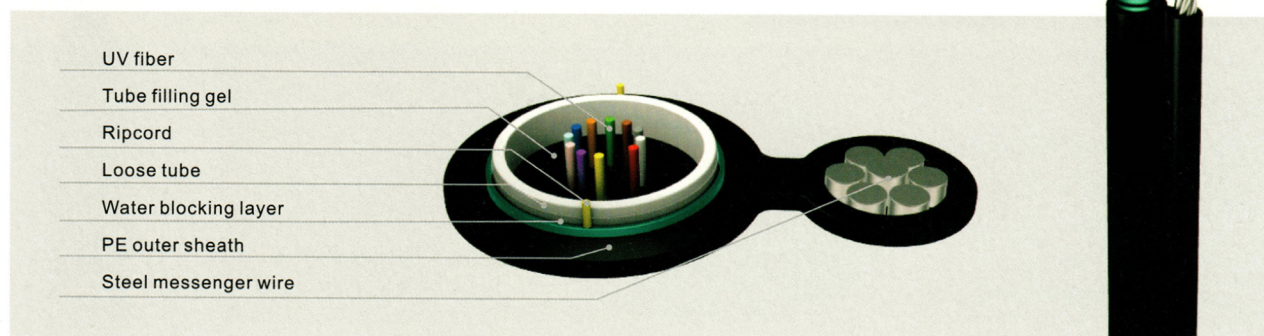
*Customized cable structure is available

Center Tube Self Support Aerial Cable

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

GYXTC8S/AY -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

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.

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

Technical Specification

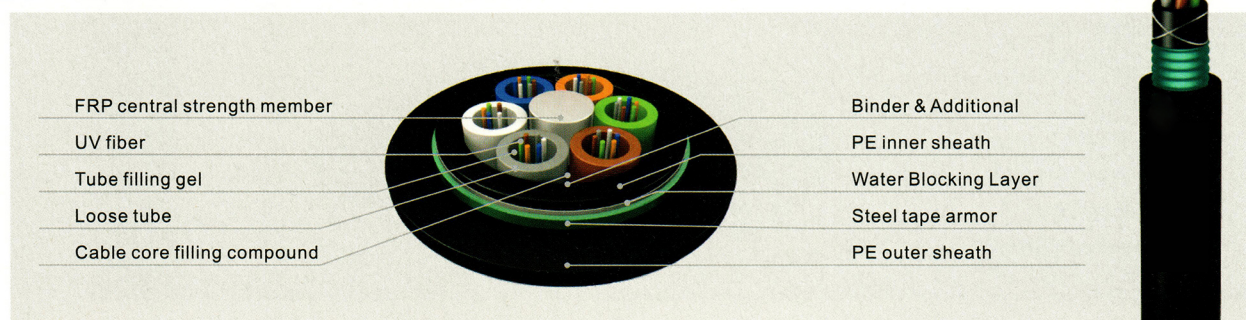
Fiber Count	Nominal Diameter (mm)	Nominal Weight (kg/km)	Allowable Tensile Load (N)		Allowable Crush Resistance (N/100mm)	
			Short Term	Long Term	Short Term	Long Term
1~24	8.0x 16.0	135	7000	4000	1000	300

*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

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, direct burial installation

Lifespan over 30 years

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

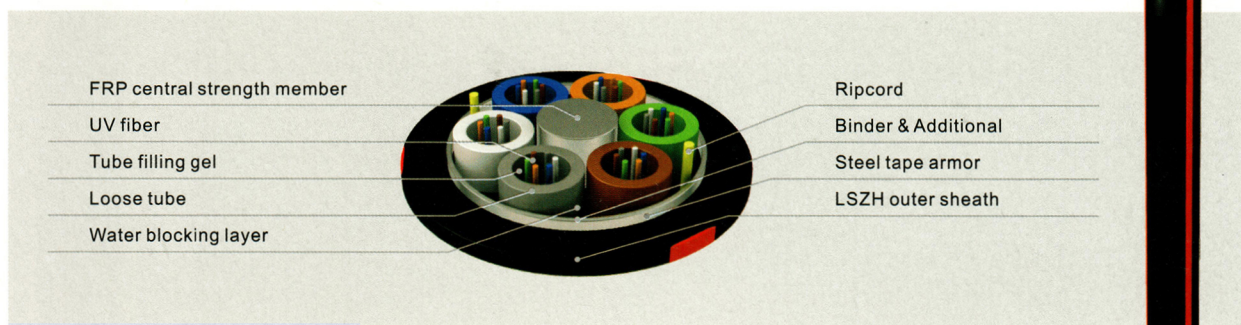
Fiber Count	Nominal Diameter (mm)	Nominal Weight (kg/km)	Max Fibers per Tube	No. of (Tubes + Fillers)	Allowable Tensile Load (N)		Allowable Crush Resistance (N/100mm)	
					Short Term	Long Term	Short Term	Long Term
2~36	14.1	193	6	6	2700	1000	3000	1000
38~72	15.1	212	12	6	2700	1000	3000	1000
74~96	16.3	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

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

Special tube filling gel

Fiber Reinforced Plastic as central strength member

Strict craft and raw material control

Customized longitudinal color strip

Note:

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

Moisture-proof and prevents water penetration

Reduce or eliminate reflection losses and prevent water penetration

High Young's modulus

Lifespan over 30 years

Easy identification, packing and maintenance

Technical Specification

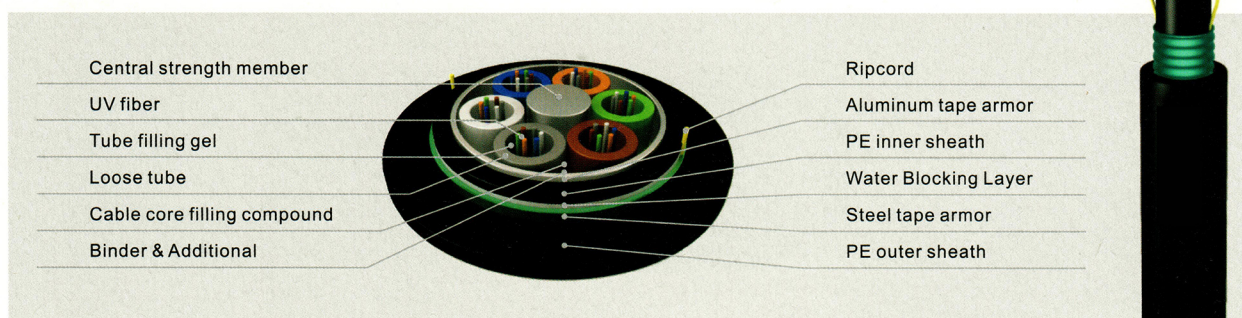
Fiber Count	Nominal Diameter (mm)	Nominal Weight (kg/km)	Max Fibers per Tube	No. of (Tubes + Fillers)	Allowable Tensile Load (N)		Allowable Crush Resistance (N/100mm)	
					Short Term	Long Term	Short Term	Long Term
2~36	9.7	90	6	5	1500	600	1000	300
38~72	10.3	109	6	6	1500	600	1000	300
74~96	10.8	119	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 Reinforced plastic as central strength member

Longitudinal coated aluminum tape and steel tape

Strict craft and raw material control enable

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

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

Technical Specification

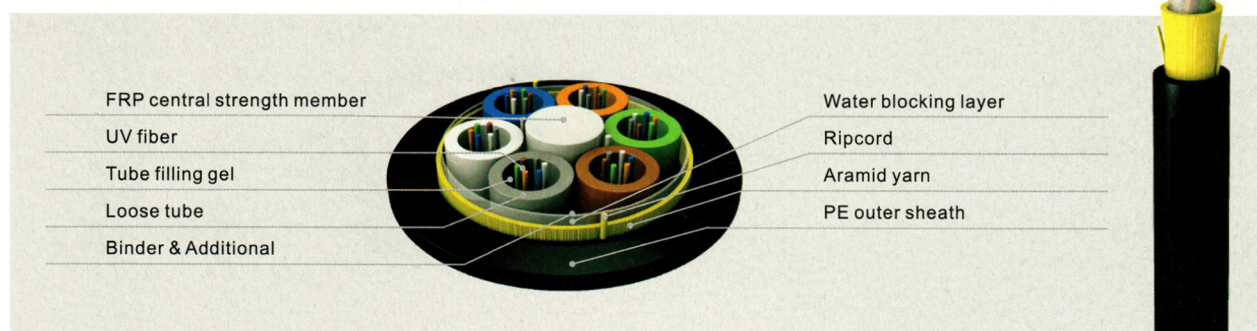
Fiber Count	Nominal Diameter (mm)	Nominal Weight (kg/km)	Max Fibers per Tube	No. of (Tubes + Fillers)	Allowable Tensile Load (N)		Allowable Crush Resistance (N/100mm)	
					Short Term	Long Term	Short Term	Long Term
2~36	13.9	204	6	6	3000	1000	3000	1000
38~72	15.1	244	12	6	3000	1000	3000	1000
74~96	17.1	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

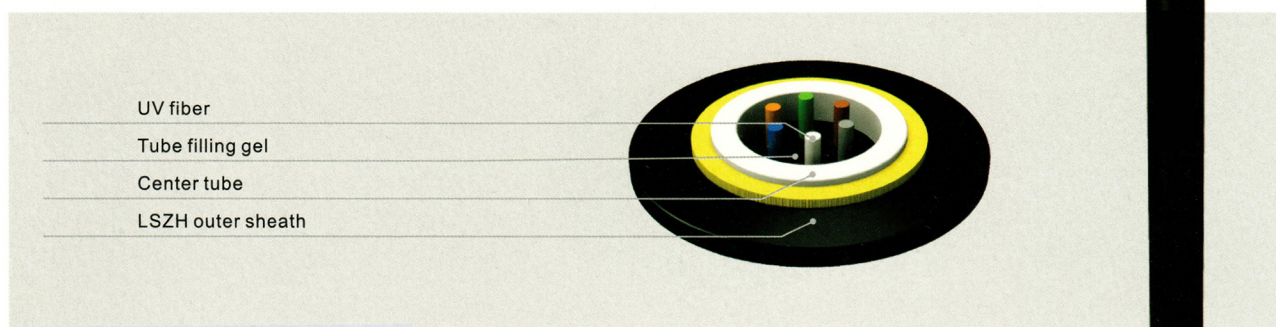
Fiber Count	Nominal Diameter (mm)	Nominal Weight (kg/km)	Allowable Tensile Load (N)		Allowable Crush Resistance (N/100mm)	
			Short Term	Long Term	Short Term	Long Term
12~48	6.0	32	100	160	1000	300
50~72	6.2	39	100	160	1000	300

*Customized cable structure is available

Air Blow Center Tube All Dielectric Cable

GCYFX- 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

Special tube filling gel

Strict craft and raw material control

Customized longitudinal color strip

Moisture-proof and prevents water penetration

Reduce or eliminate reflection losses and prevent water penetration

Lifespan over 30 years

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

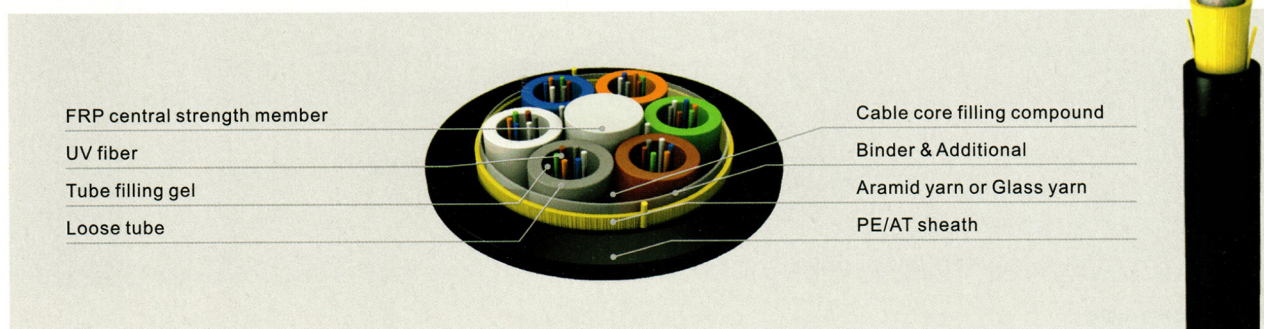
Fiber Count	Nominal Diameter (mm)	Nominal Weight (kg/km)	Allowable Tensile Load (N)		Allowable Crush Resistance (N/100mm)	
			Short Term	Long Term	Short Term	Long Term
1~24	4.4	18	100	160	1000	300

*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

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
- ◉ Span no longer than 200m.

Technical Specification

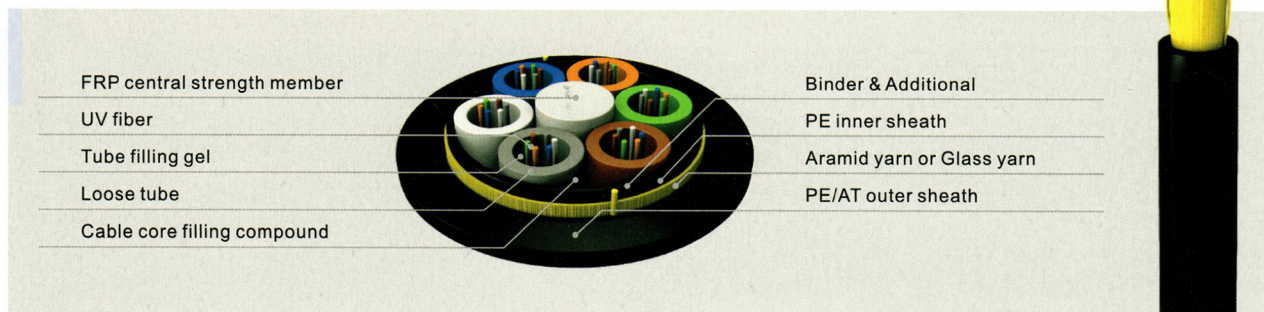
Fiber Count	Nominal Diameter (mm)	Nominal Weight (kg/km)	Max Fibers per Tube	No. of (Tubes + Fillers)	Allowable Tensile Load (N)		Allowable Crush Resistance (N/100mm)	
					Short Term	Long Term	Short Term	Long Term
2~36	10.7	92	6	6	2700	1000	1000	300
38~72	11.6	103	12	6	2700	1000	1000	300
74~96	13.3	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

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

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 GYCZ8S/A/Y
- Longitudinal color strip on outer sheath can be provided according to customer's requests. More details, please refer to GYFZA.

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

Technical Specification

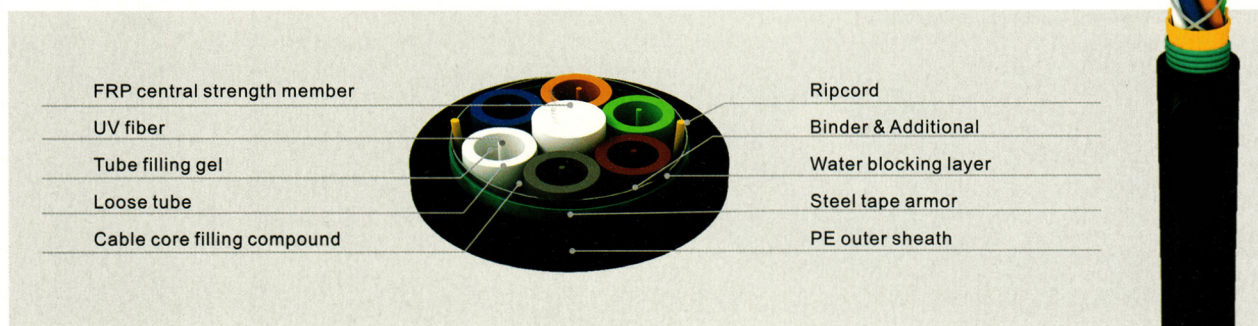
Fiber Count	Nominal Diameter (mm)	Nominal Weight (kg/km)	Max Fibers per Tube	No. of (Tubes + Fillers)	Allowable Tensile Load (N)		Allowable Crush Resistance (N/100mm)	
					Short Term	Long Term	Short Term	Long Term
8	9.5x 17.5	160	1	8	7000	4000	1000	300
12	11.0x 19.5	190	1	12	7000	4000	1000	300
24	13.3x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

Special tube filling gel

Easy installation

Fiber Reinforced Plastic as central strength member

Strict craft and raw material control

Customized longitudinal color strip

Moisture-proof and prevents water penetration

Reduce or eliminate reflection losses and prevent water penetration

One core for each tube, suitable for distribution

High Young's modulus

Lifespan over 30 years

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

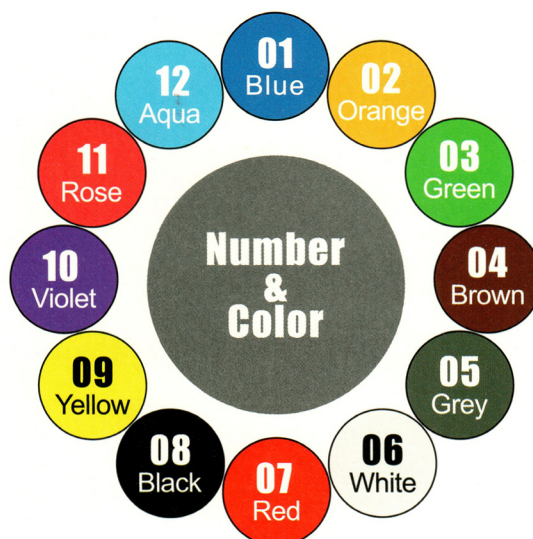
Technical Specification

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

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.