



## Products

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### **Outdoor Optical Cable**

Unitube Light-armored Cable-GYXTW

Unitube Non-metallic Micro Cable-JET

Unitube Non-armored Cable-GYXY

Stranded Loose Tube Cable with Steel Tape-GYTS

Stranded Loose Tube Cable with APL-GYTA

Stranded Loose Tube one-armored cable with Double Sheath-  
GYTY53

Stranded Loose Tube two-armored cable with Double Sheath-  
GYTA53

Figure 8 cable-GYTC8S

ADSS cable

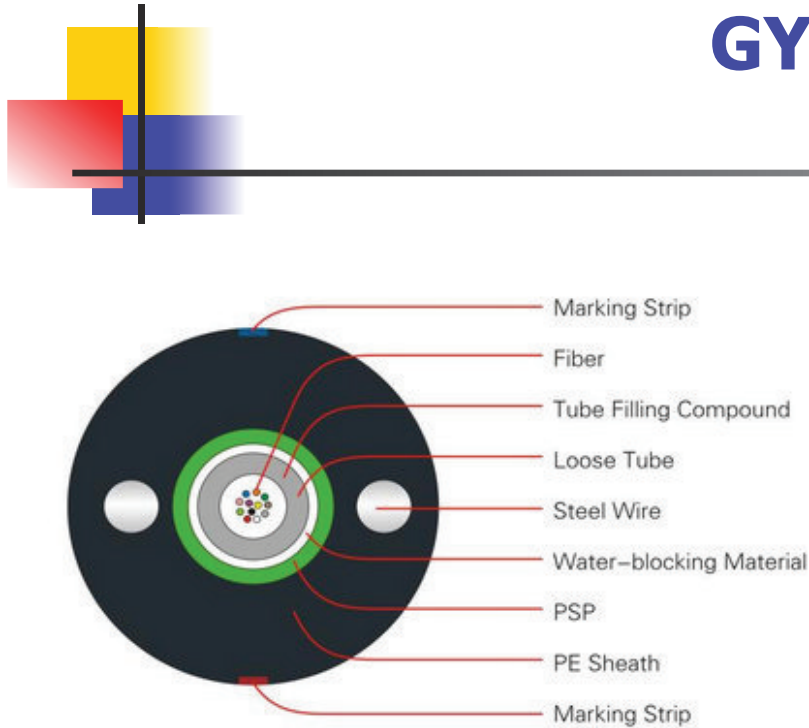
### **FTTH Cable**

FTTH Indoor Cable

FTTH Drop Cable

FTTH outdoor Cable

## GYXTW



### 1. Fiber(Fiber characteristic)

Cladding diameter:  $125.0 \pm 0.1$

Fiber characteristics: Diameter:  $242 \pm 7$   $\mu\text{m}$

UV color fiber: Standard chromatogram:

Blue, Orange, Green, Brown, Gray/Slate, White, Red, Black, Yellow, Violet, Rose/Pink, Aqua

### 2. Tube filling compound(Gel)

### 3. PBT loose tube of 2-12 core

Tube thickness:  $0.3 \pm 0.05$ mm Diameter:  $2.5 \pm 0.1$   $\mu\text{m}$

### 4. Phosphoric steel wire Diameter: $0.7$ mm\*2

### 5. Longitudinal water-proof tape

Thickness \*Widen:  $0.25 * 12$ mm

### 6. Longitudinal corrugated steel tape laminated with polyethylene on both sides

Corrugated steel Thickness :  $0.4 \pm 0.015$

Steel thickness:  $0.15 \pm 0.015$

### 7. Black PE out jacket

Diameter:  $8.8 \pm 0.20$ mm /  $8.3 \pm 0.20$ mm /  $8.0 \pm 0.20$ mm

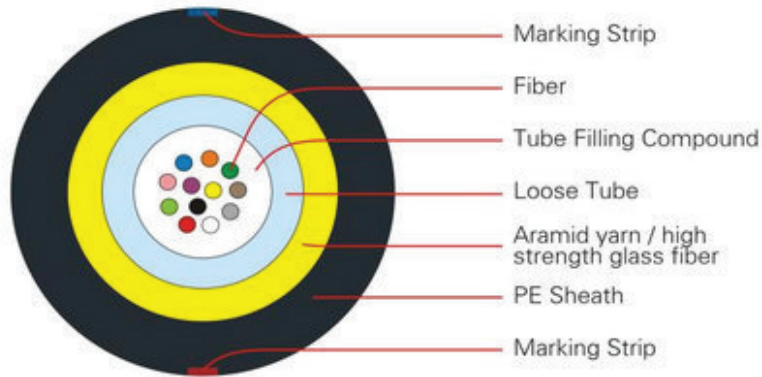
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## GYXTW



		2-12core
Nominal weight(g/m)		70
Max. Tension (N)	Short-term	1500
Max. Tension (N)	Long-term	600
Max. Crushing Resistance (N/100mm <sup>2</sup> )		1000
Temperature range(°C)		-40°C-- +70°C
Min. Bending Radius(mm)	Install	20D
Min. Bending Radius(mm)	Static	10D

## JET



### 1. Fiber(Fiber characteristic)

Cladding diameter:  $125.0 \pm 0.1$

Fiber characteristics: Diameter:  $242 \pm 7$   $\mu\text{m}$

UV color fiber: Standard chromatogram:

Blue,Orange,Green,Brown,Gray/Slate,White,Red,Black,Yellow,Violet,Rose/  
Pink,Aqua

### 2. Tube filling compound (Gel)

### 3. PBT loose tube of 2-12 core

Tube thickness:  $0.3 \pm 0.05\text{mm}$  Diameter:  $2.5 \pm 0.1$   $\mu\text{m}$

### 4. Phosphoric steel wire Diameter: $0.7\text{mm} \times 2$

### 5. Aramid Yarn

Thickness \*Widen:  $0.25 \times 12\text{mm}$

### 6. Black PE out jacket

Jacket thickness:  $2.0 \pm 0.20\text{mm}$

Diameter:  $6.0 \pm 0.20\text{mm}$

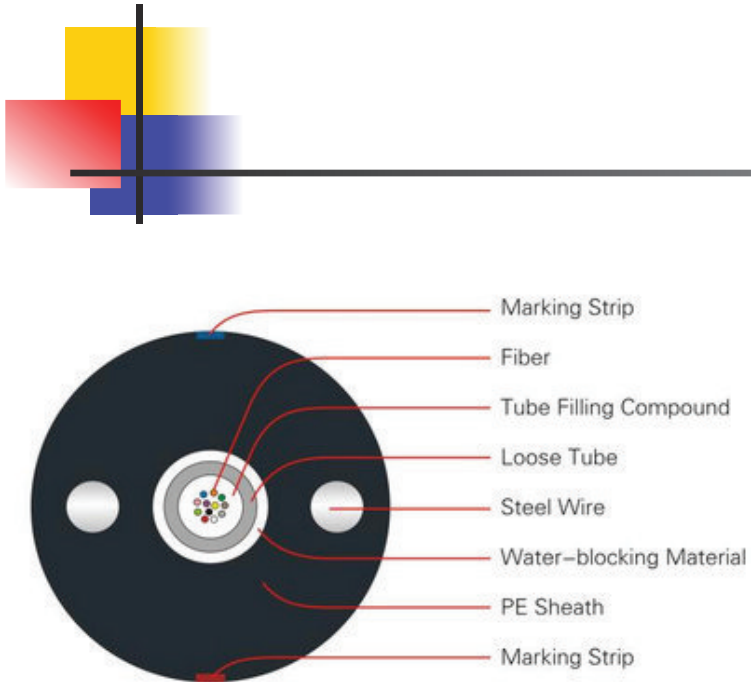
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## JET

		2-12core
Nominal weight(g/m)		35
Max. Tension (N)	Short-term	1000
Max. Tension (N)	Long-term	300
Max. Crushing Resistance (N/100mm <sup>2</sup> )		1000
Temperature range(°C)		-40°C-- +70°C
Min. Bending Radius(mm)	Install	20D
Min. Bending Radius(mm)	Static	10D

## GYXY



### 1. Fiber(Fiber characteristic)

**Cladding diameter:  $125.0 \pm 0.1$**

**Fiber characteristics: Diameter:  $242 \pm 7$  um**

**UV color fiber: Standard chromatogram:**

**Blue,Orange,Green,Brown,Gray/Slate,White,Red,Black,Yellow,Violet,Rose/Pink,Aqua**

### 2. Tube filling compound(Gel)

### 3. PBT loose tube of 2-12 core

**Tube thickness:  $0.3 \pm 0.05$ mm Diameter:  $2.5 \pm 0.1$  um**

### 4. Phosphoric steel wire Diameter: $0.7$ mm\*2

### 5. Longitudinal water-proof tape

**Thickness \*Widen:  $0.25 \times 12$ mm**

### 6. Black PE out jacket

**Diameter:  $8.8 \pm 0.20$ mm /  $8.3 \pm 0.20$ mm /  $8.0 \pm 0.20$ mm**

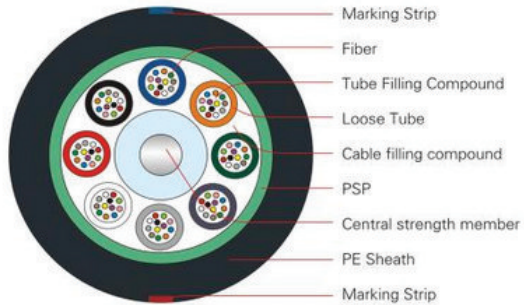
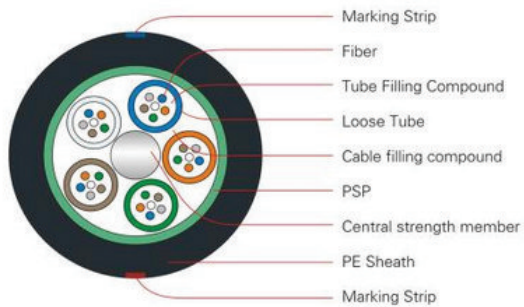
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## GYXY



		2-12core
Nominal weight(g/m)		70
Max. Tension (N)	Short-term	1500
Max. Tension (N)	Long-term	600
Max. Crushing Resistance (N/100mm <sup>2</sup> )		1000
Temperature range(°C)		-40°C-- +70°C
Min. Bending Radius(mm)	Install	20D
Min. Bending Radius(mm)	Static	10D

## GYTS



### 1. Fiber(Fiber characteristic)

**Cladding diameter: 125.0±0.1**

**Fiber characteristics: Diameter: 242±7 um**

**UV color fiber: Standard chromatogram:**

**Blue,Orange,Green,Brown,Gray/Slate,White,Red,Black,Yellow,Violet,Rose/Pink,Aqua**

### 2. Tube filling compound(Gel)

### 3. PBT loose tube of 2-12 core

**Tube thickness: 0.3±0.05mm Diameter: 2.5±0.1 um**

### 4. Central Strength Member: steel wire Diameter: 1.6mm

### 5. Cable filling compound

### 6. Longitudinal corrugated steel tape laminated with polyethylene on both sides

**Corrugated steel Thickness : 0.4 ±0.015**

**Steel thickness: 0.15±0.015**

### 7. Black PE out jacket

**Jacket thickness:1.8 ±0.20mm**

**Diameter: 10.5 ±0.20mm**



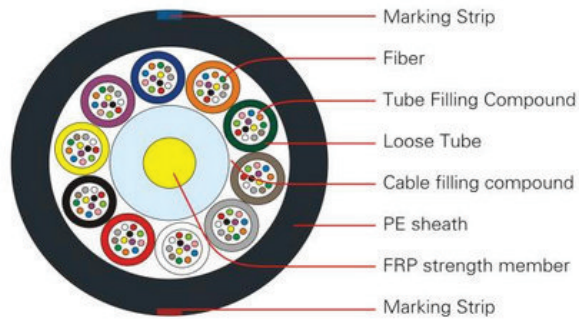
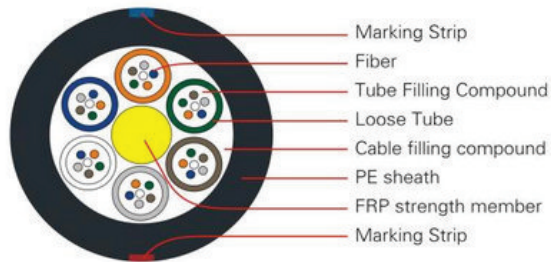
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## GYTS



		2-60core	60-288core
Nominal weight(g/m)		110	
Max. Tension (N)	Short-term	1500	3000
Max. Tension (N)	Long-term	600	1000
Max. Crushing Resistance (N/100mm <sup>2</sup> )		1000	1000
Temperature range(°C)		-40°C-- +70°C	-40°C-- +70°C
Min. Bending Radius(mm)	Install	20D	20D
Min. Bending Radius(mm)	Static	10D	10D

## GYFTY



### 1. Fiber(Fiber characteristic)

**Cladding diameter:  $125.0 \pm 0.1$**

**Fiber characteristics: Diameter:  $242 \pm 7$  um**

**UV color fiber: Standard chromatogram:**

**Blue,Orange,Green,Brown,Gray/Slate,White,Red,Black,Yellow,Violet,Rose/Pink,Aqua**

### 2. Tube filling compound(Gel)

### 3. PBT loose tube of 2-12 core

**Tube thickness:  $0.3 \pm 0.05$ mm    Diameter:  $2.5 \pm 0.1$  um**

### 4. Central Strength Member: FRP    Diameter: 1.6mm

### 5. Cable filling compound

### 7. Black PE out jacket

**Jacket thickness:  $1.8 \pm 0.20$ mm**

**Diameter:  $9.5 \pm 0.20$ mm**

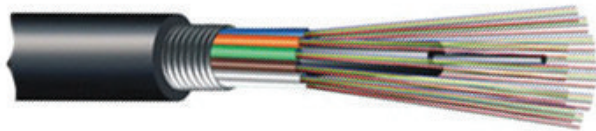
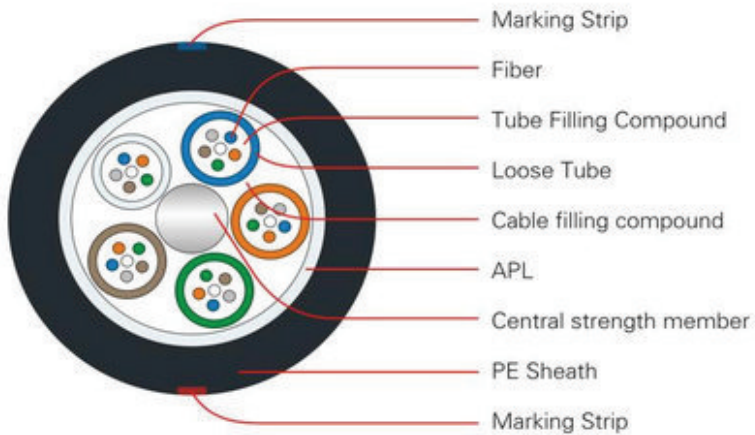
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## GYFTY



		2-60core	60-288core
Nominal weight(g/m)		85	
Max. Tension (N)	Short-term	1500	3000
Max. Tension (N)	Long-term	600	1000
Max. Crushing Resistance (N/100mm <sup>2</sup> )		1000	1000
Temperature range(°C)		-40°C-- +70°C	-40°C-- +70°C
Min. Bending Radius(mm)	Install	20D	20D
Min. Bending Radius(mm)	Static	10D	10D

## GYTA



### 1. Fiber(Fiber characteristic)

Cladding diameter:  $125.0 \pm 0.1$

Fiber characteristics: Diameter:  $242 \pm 7$   $\mu\text{m}$

UV color fiber: Standard chromatogram:

Blue,Orange,Green,Brown,Gray/Slate,White,Red,Black,Yellow,Violet,Rose/Pink,Aqua

### 2. Tube filling compound(Gel)

### 3. PBT loose tube of 2-12 core

Tube thickness:  $0.3 \pm 0.05\text{mm}$  Diameter:  $2.5 \pm 0.1$   $\mu\text{m}$

### 4. Central Strength Member: steel wire Diameter: 1.6mm

### 5. Cable filling compound

### 6. APL

Aluminum Polyethylene Laminate moisture barrier

### 7. Black PE out jacket

Jacket thickness:  $1.8 \pm 0.20\text{mm}$

Diameter:  $10.5 \pm 0.20\text{mm}$

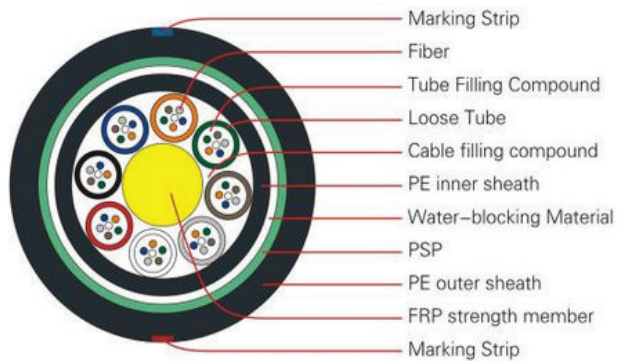
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## GYTA



		2-60core	60-288core
Nominal weight(g/m)		90	
Max. Tension (N)	Short-term	1500	3000
Max. Tension (N)	Long-term	600	1000
Max. Crushing Resistance (N/100mm <sup>2</sup> )		1000	1000
Temperature range(°C)		-40°C-- +70°C	-40°C-- +70°C
Min. Bending Radius(mm)	Install	20D	20D
Min. Bending Radius(mm)	Static	10D	10D

## GYTY53



### 1. Fiber(Fiber characteristic)

Cladding diameter:  $125.0 \pm 0.1$

Fiber characteristics: Diameter:  $242 \pm 7$   $\mu\text{m}$

UV color fiber: Standard chromatogram:

Blue,Orange,Green,Brown,Gray/Slate,White,Red,Black,Yellow,Violet,Rose/Pink,Aqua

### 2. Tube filling compound (Gel)

### 3. PBT loose tube of 2-12 core

Tube thickness:  $0.3 \pm 0.05\text{mm}$  Diameter:  $2.5 \pm 0.1$   $\text{mm}$

### 4. Cable filling compound (Gel)

### 5. PE Inner sheath

### 6. Longitudinal water-proof tape

Thickness \*Widen:  $0.25 \times 12\text{mm}$

### 7. Longitudinal corrugated steel tape laminated with polyethylene on both sides

Corrugated steel Thickness :  $0.4 \pm 0.015$

Steel thickness:  $0.15 \pm 0.015$

### 8. Black PE out jacket

Diameter:  $12.5 \pm 0.30\text{mm}$

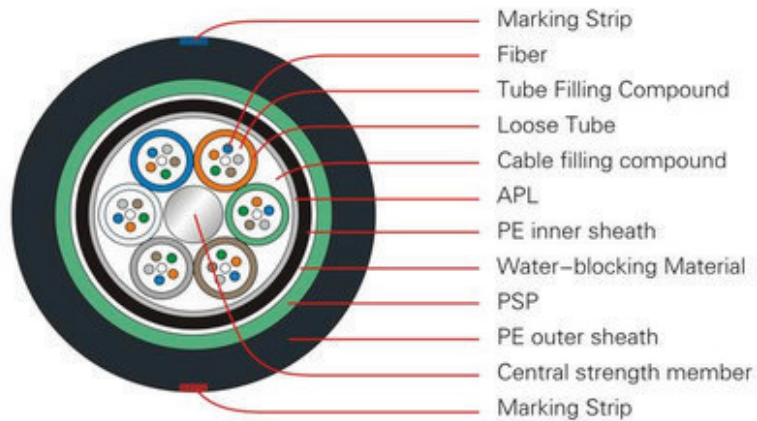
### 9. Central Strength member: steel wire Diameter: 1.6mm

## GYTY53



		2-144core
Max. Tension (N)	Short-term	3000
Max. Tension (N)	Long-term	1000
Max. Crushing Resistance (N/100mm <sup>2</sup> )		3000
Temperature range(°C)		-40°C-- +70°C
Min. Bending Radius(mm)	Install	20D
Min. Bending Radius(mm)	Static	10D

## GYTA53



### 1. Fiber(Fiber characteristic)

Cladding diameter:  $125.0 \pm 0.1$

Fiber characteristics: Diameter:  $242 \pm 7$   $\mu\text{m}$

UV color fiber: Standard chromatogram:

Blue,Orange,Green,Brown,Gray/Slate,White,Red,Black,Yellow,Violet,Rose/Pink,Aqua

### 2. Tube filling compound (Gel)

### 3. PBT loose tube of 2-12 core

Tube thickness:  $0.3 \pm 0.05$ mm Diameter:  $2.5 \pm 0.1$   $\mu\text{m}$

### 4. Cable filling compound (Gel)

### 5. APL

Aluminium Polyethylene Laminate moisture barrier

### 6. PE Inner sheath

### 7. Longitudinal water-proof tape

Thickness \*Widen:  $0.25 \times 12$ mm

### 8. Longitudinal corrugated steel tape laminated with polyethylene on both sides

Corrugated steel Thickness :  $0.4 \pm 0.015$

Steel thickness:  $0.15 \pm 0.015$

### 9. Black PE out jacket

Diameter:  $12.5 \pm 0.30$ mm

### 10. Central Strength member: steel wire Diameter: 1.6mm

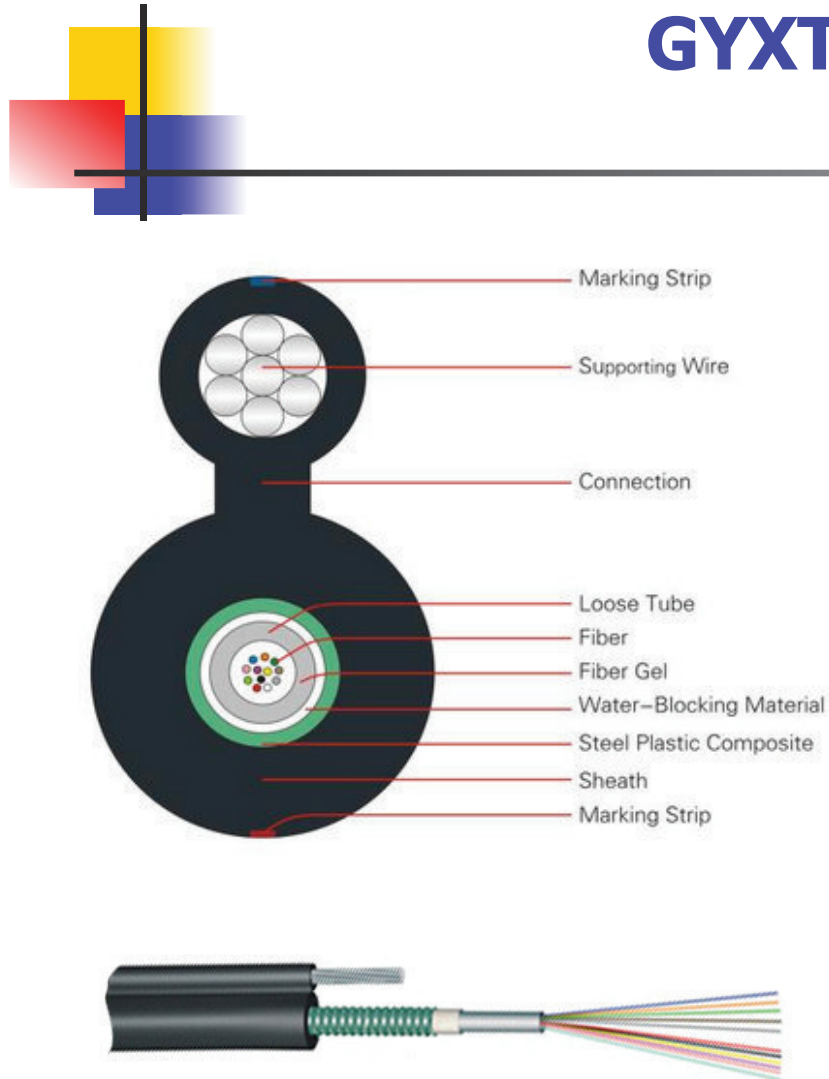


## GYTA53



		2-144core
Max. Tension (N)	Short-term	3000
Max. Tension (N)	Long-term	1000
Max. Crushing Resistance (N/100mm <sup>2</sup> )		3000
Temperature range(°C)		-40°C-- +70°C
Min. Bending Radius(mm)	Install	20D
Min. Bending Radius(mm)	Static	10D

## GYXTC8S



### 1. Fiber(Fiber characteristic)

Cladding diameter:  $125.0 \pm 0.1$

Fiber characteristics: Diameter:  $242 \pm 7$   $\mu\text{m}$

UV color fiber: Standard chromatogram:

Blue,Orange,Green,Brown,Gray/Slate,White,Red,Black,Yellow,Violet,Rose/Pink,Aqua

### 2. Tube filling compound(Gel)

### 3. PBT loose tube of 2-12 core

Tube thickness:  $0.3 \pm 0.05\text{mm}$  Diameter:  $2.5 \pm 0.1$   $\mu\text{m}$

### 4. Longitudinal water-proof tape

Thickness \*Widen:  $0.25 * 12\text{mm}$

### 5. Longitudinal corrugated steel tape laminated with polyethylene on both sides

Corrugated steel Thickness :  $0.4 \pm 0.015$

Steel thickness:  $0.15 \pm 0.015$

### 6. Supporting Wire: Stranded Wire: $1.0\text{mm} * 7$

### 7. Black PE out jacket

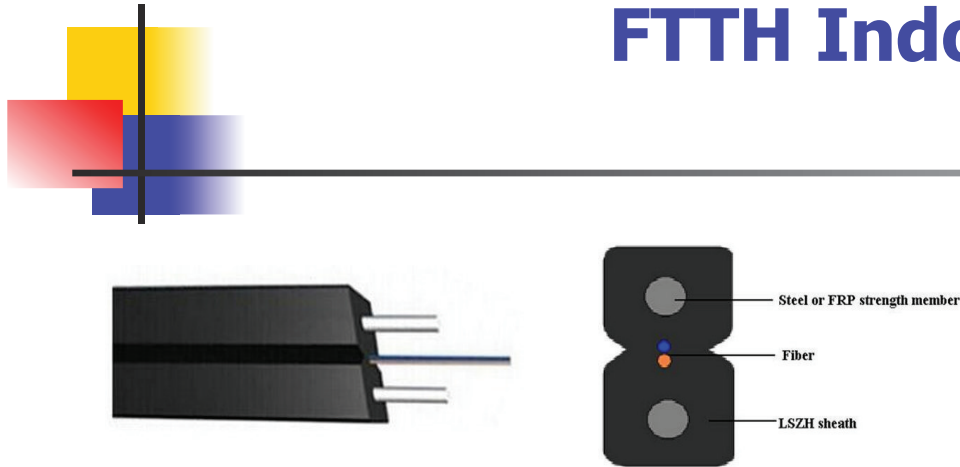
Diameter:  $(8.0 \pm 0.20\text{mm}) * (15.0 \pm 0.20\text{mm})$



## GYXTC8S

		2-12core	2-144core(GYTC8S)
Nominal weight(g/m)		118	135
Max. Tension (N)	Short-term	2500	2500
Max. Tension (N)	Long-term	1000	1000
Max. Crushing Resistance (N/100mm <sup>2</sup> )		3000	3000
Temperature range(°C)		-40°C-- +70°C	-40°C-- +70°C
Min. Bending Radius(mm)	Install	20D	20D
Min. Bending Radius(mm)	Static	10D	10D

## FTTH Indoor Cable



### Applications:

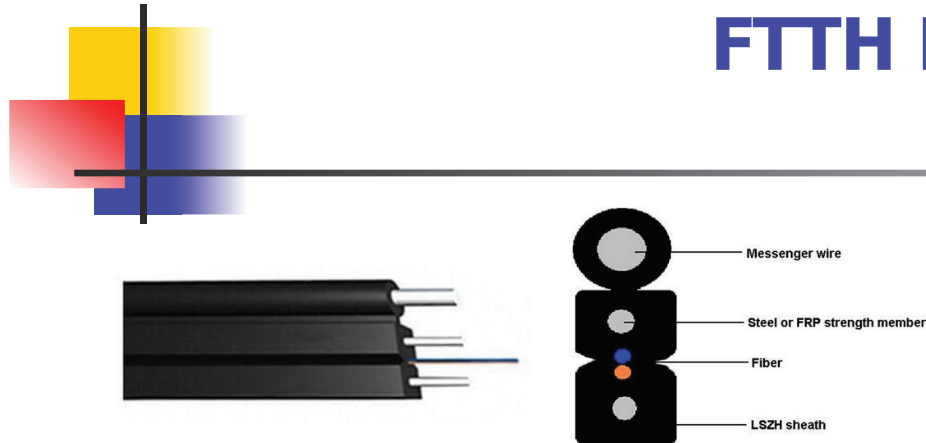
The optical fiber unit is positioned in the centre. Two parallel FiberReinforced Plastics (FRP) are placed at the two sides. Then the cable is completed with a black or color LSZH sheath.

### Features:

- Special low-bend-sensitivity fiber provides high bandwidth and excellent communication transmission property;
- Two parallel FRP strength members ensure good performance of crush resistance to protect the fiber;
- Simple structure, light weight and high practicability;
- Novel flute design, easily strip and splice, simplify the installation and maintenance;
- Low smoke, zero halogen and flame retardant sheath.

Fiber	Type	G657A
	No.	1 or 2 cores
FRP		0.5mm*2
Jacket	Material	LSZH
Cable Diameter (mm)		$(2.0 \pm 0.2 \text{mm}) * (3.0 \pm 0.2 \text{mm})$
Cable weight		8.0kg/km
Max. Tension (N)	Short-term	30
	Long-term	60
Max. Crushing Resistance (N/100mm <sup>2</sup> )		1000
Temperature range(°C)		-20°C-- +60°C
Min. Bending Radius (mm)	Dynamic	30
	Static	15

## FTTH Drop Cable



### Applications:

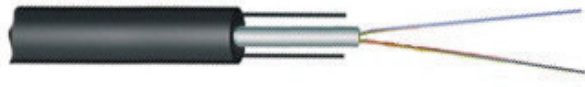
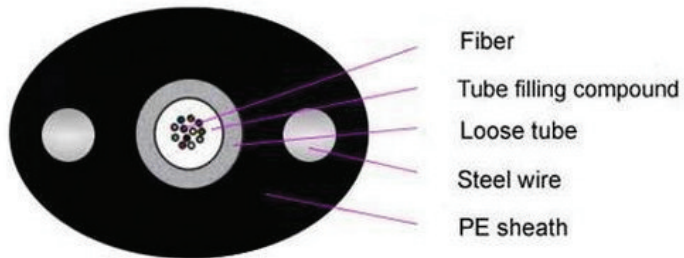
The optical fiber unit is positioned in the centre. Two parallel Fiber Reinforced Plastics (FRP) are placed at the two sides. A Steel wire as the additional strength member is also applied. Then the cable is completed with a black or color LSZH sheath.

### Features:

- Special low-bend-sensitivity fiber provides high bandwidth and excellent communication transmission property;
- Two parallel FRP strength members ensure good performance of crush resistance to protect the fiber;
- Single steel wire or messagers as the additional strength member ensures good performance of tensile strength;
- Simple structure, light weight and high practicability;
- Novel flute design, easily strip and splice, simplify the installation and maintenance;
- Low smoke, zero halogen and flame retardant sheath.

Fiber	Type	G657A
	No.	1 or 2 cores
FRP		0.5mm*2
Steel wire		1.0mm
Jacket	Material	LSZH
Cable Diameter (mm)		$(2.0 \pm 0.2\text{mm}) * (5.0 \pm 0.2\text{mm})$
Cable weight		20.0kg/km
Max. Tension (N)	Short-term	60
	Long-term	120
Max. Crushing Resistance (N/100mm <sup>2</sup> )		1000
Temperature range(°C)		-20°C-- +60°C
Min. Bending Radius (mm)	Dynamic	30
	Static	15

## FTTH outdoor cable



### 1. Fiber(Fiber characteristic)

Cladding diameter:  $125.0 \pm 0.1$

Fiber characteristics: Diameter:  $242 \pm 7$  um

UV color fiber: Standard chromatogram:

Blue,Orange,Green,Brown,Gray/Slate,White,Red,Black,Yellow,Violet,  
Rose/Pink,Aqua

### 2. Tube filling compound(Gel)

### 3. PBT loose tube of 2-12 core

Tube thickness:  $0.3 \pm 0.05$ mm Diameter:  $2.5 \pm 0.1$  um

### 4. Phosphoric steel wire Diameter: $0.7$ mm\*2

### 5. Black PE out jacket

Diameter:  $(4.0 \pm 0.20$ mm)\*  $(5.0 \pm 0.20$ mm)

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## ADSS All Dielectric Self-supporting Aerial Cable

### ·Description

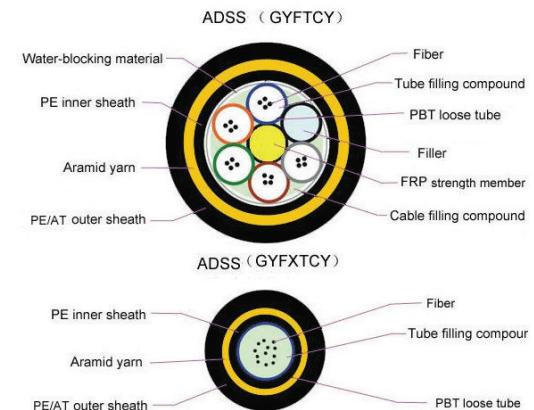
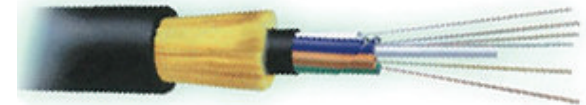
ADSS cable is loose tube stranded. Fibers, 250  $\mu$  m , are positioned into a loose tube made of high modulus plastics. The tubes are filled with a water-resistant filling compound. The tubes (and fillers) are stranded around a FRP (Fiber Reinforced Plastic) as a non-metallic central strength member into a compact and circular cable core. After the cable core is filled with filling compound. it is covered with thin PE (polyethylene) inner sheath. After stranded layer of aramid yarns are applied over the inner sheath as strength member, the cable is completed with PE or AT (anti-tracking) outer sheath.

### ·Characteristics

- Can be installed without shutting off the power
- Excellent AT performance, The maximum inductive at the operating point of AT sheath can reach 25kV
- Light weight and small diameter reducing the load caused by ice and wind and the load on towers and backprops
- Large span lengths and the largest span is over 1000m
- Good performance of tensile strength and temperature
- The design life span is 30 years

### ·Application

The actual status of overhead power lines is taken into full consideration when ADSS cable is being designed. For overhead power lines under 110kV, PE outer sheath is applied. FOR power lines equal to or over 110kV, AT outer sheath is applied. The dedicate design of aramid quantity and stranding process can satisfy the demand on various spans.



## FTTH outdoor cable



		2-12core
Nominal weight(g/m)		40
Max. Tension (N)	Short-term	300
Max. Tension (N)	Long-term	600
Max. Crushing Resistance (N/100mm <sup>2</sup> )		500
Temperature range(°C)		-40°C-- +70°C
Min. Bending Radius(mm)	Install	20D
Min. Bending Radius(mm)	Static	10D