

(GYFXY)

适用: 架空  
Application: Aerial

■ 光学特性 Optical Characteristics

|  | G.652          | G.655             | 50 / 125 $\mu\text{m}$ | 62.5 / 125 $\mu\text{m}$ |
|--|----------------|-------------------|------------------------|--------------------------|
| 衰减 Attenuation (+20°C)                         | @ 850 nm       |                   | $\leq 3.0$ dB/km       | $\leq 3.0$ dB/km         |
|  | @1300 nm       |                   | $\leq 1.0$ dB/km       | $\leq 1.0$ dB/km         |
|  | @1310 nm       | $\leq 0.36$ dB/km | $\leq 0.40$ dB/km      |                          |
|  | @1550 nm       | $\leq 0.22$ dB/km | $\leq 0.23$ dB/km      |                          |
| 带宽 (A级) Bandwidth (Class A)                    | @ 850 nm       |                   | $\geq 600$ MHz·km      | $\geq 200$ MHz·km        |
|  | @1300 nm       |                   | $\geq 1200$ MHz·km     | $\geq 600$ MHz·km        |
| 数值孔径 Numerical Aperture                        |                |                   | $0.200 \pm 0.015$ NA   | $0.275 \pm 0.015$ NA     |
| 光缆截止波长 Cable Cut-off Wavelength $\lambda_{cc}$ | $\leq 1260$ nm | $\leq 1450$ nm    |                        |                          |

■ 结构参数 Technical Parameters

| 光缆型号<br>Cable Type<br>(以2纤递增)<br>(Increased by 2 fibers) | 光纤数<br>Fiber Count | 光缆直径<br>Cable<br>Diameter<br>mm | 光缆重量<br>Cable<br>Weight<br>kg / km | 允许拉伸力<br>Tensile Strength<br>长期 / 短期<br>Long / Short Term<br>N | 允许压扁力<br>Crush Resistance<br>长期 / 短期<br>Long / Short Term<br>N / 100mm | 弯曲半径<br>Bending Radius<br>静态 / 动态<br>Static / Dynamic<br>mm |
|--|--------------------|---------------------------------|------------------------------------|--|--|---|
| GYFXY-2~12Xn   | 2~12               | 10.2                            | 100                                | 400 / 1000   | 300 / 1000   | 100 / 200   |

储存、使用温度:  $-40^{\circ}\text{C}$  至  $+70^{\circ}\text{C}$   
Storage / Operating Temperature:  $-40^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$

注 Note:

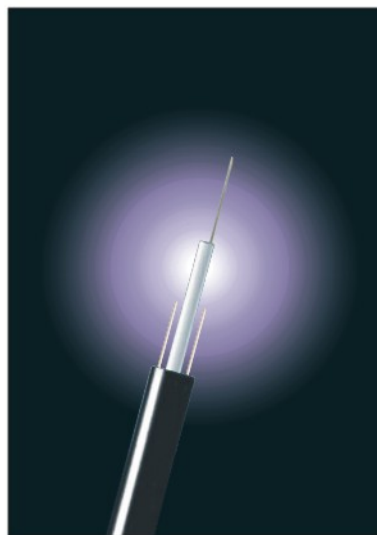
- 型号的后缀 Xn 表示选用的光纤类型, 详见长飞上海光纤型号说明;  
Suffix Xn denotes fiber type and see details in YOFC(SH)'s optical fiber illustration.
- 套管和光纤的颜色排列见色谱表;  
The colour arrangements of fiber and tube are specified in the colour identification table.
- 加强件外侧聚乙烯护套的最小厚度标称值为 1.0mm.  
The nominal value of the PE sheath minimum thickness outside of the strength member is 1.0mm.

## 中心管式非金属非铠装光缆(GYFXY) Unitube Non-metallic Non-armored Cable

### 产品描述 Description

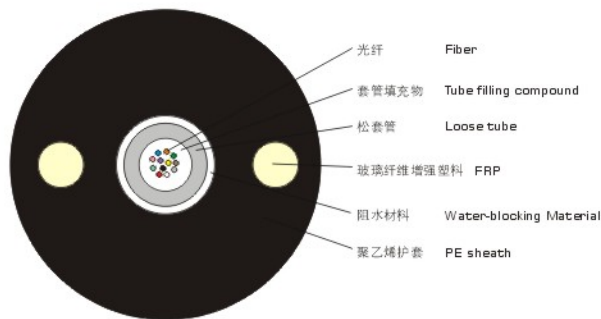
GYFXY 光缆的结构是将 250 $\mu$ m 光纤套入高模量材料制成的松套管中，松套管内填充防水化合物。松套管外加阻水材料以保证光缆纵向阻水，两侧放置两根平行玻璃纤维增强塑料 (FRP) 后挤制聚乙烯护套成缆。

The fibers, 250 $\mu$ m, are positioned in a loose tube made of a high modulus plastic. The tubes are filled with a water-resistant filling compound. Over the tube, water-blocking material is applied to keep the cable watertight. Two parallel Fiber Reinforced Plastics (FRP) are placed at the two sides. The cable is completed with a polyethylene (PE) sheath.



### 产品特点 Characteristics

- 具有很好的机械性能和温度特性  
 Good mechanical and temperature performance
- 松套管材料本身具有良好的耐水解性能和较高的强度  
 High strength loose tube that is hydrolysis resistant
- 管内充以特种油膏，对光纤进行了关键性保护  
 Special tube filling compound ensure a critical protection of fiber
- 两根平行 FRP 保证光缆的抗拉强度  
 Two parallel FRPs ensure tensile strength
- PE 护套具有很好的抗紫外辐射性能  
 PE sheath protects cable from ultraviolet radiation
- 直径小、重量轻、容易敷设  
 Small diameter, light weight and friendly installation
- 较长的交货长度  
 Long delivery length



光缆结构图  
 Cable Structure

### 产品标准 Standards

长飞上海公司 GYFXY 光缆符合 YD/T 769-2003 标准。  
 YOFC(SH) GYFXY cable complies with Standard YD/T 769-2003.