

# Stranded Non-metallic Air-blowing Micro Cable

层绞式非金属气吹光缆

## Description 产品描述

The fibres, 250µm, are positioned in a loose tube made of a high modulus plastic. The tubes are filled with a water-resistant filling compound. A Fibre Reinforced Plastic (FRP) locates in the center of core as a non-metallic strength member. The tubes (or fillers) are stranded around the strength member into a compact and circular core. The cable core is protected from water ingress by water-blocking yarn. The cable is completed with a HDPE sheath.

微型层绞式非金属光缆是将250µm单模或多模光纤套入高模量材料制成的松套管中，套管内填充无毒、无害的防水化合物。缆芯的中心是一根非金属加强芯(FRP)，松套管(或填充绳)围绕中心加强芯交合成紧凑的圆形缆芯。加强芯外设有阻水纱，再挤制黑色或彩色高密度聚乙烯(HDPE)护套成缆。

## Characteristics 产品特点

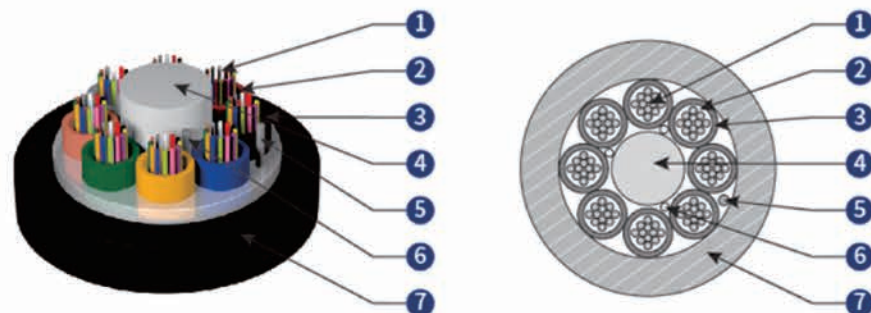
- Non-metal design can prevent the cable from radio interference and magnetic wave interference  
非金属的结构设计有效防止射频干扰和电磁波干扰
- Specially designed compact structure is good at preventing loose tubes from shrinking  
特别设计的紧密的光缆结构，有效防止套管回缩
- Loose tube filling compound ensure good moisture resistance performance  
松套管内填充特种油膏，充分保证了光缆的防水性能
- Good flexibility  
具有良好的柔软性
- High dense fibre packed, small diameter and light weight, it's the better option for blowing installation process  
光纤组装密度高，缆径小，重量轻，是气吹敷设方式的最佳选择

## Applications 产品应用

Adapted to backbone network, access network and  
利用微管资源，特别适用于骨干网、接入网和光纤到户

## Structure Drawing 结构图

1. Fibre  
光纤
2. Tube Filling Compound  
套管填充物
3. Loose Tube  
松套管
4. FRP Strength Member  
非金属加强芯
5. Ripcord  
开缆绳
6. Water Blocking Yarn  
阻水纱
7. PE Sheath  
聚乙烯护套



## Specifications 参数

### Technical Parameters 结构参数

Cable Type 光缆型号 (Increased by 2 fibres 以2纤递增)	Fibre Count 光纤数	Tubes 套管数	Fillers 填充绳数	Cable Diameter 光缆直径 (mm)	Cable Weight (Ref) 参考光缆重量 (kg/km)	Tensile Strength 允许拉伸力		Crush Resistance 允许压扁力	Bending Radius 弯曲半径
						Long/Short term 长期/短期 (N)	Long/Short term 长期/短期 (N/100mm)	Dynamic/Static 动态/静态 (mm)	
GCFYF-24~72Xn	24~72	2~6	4~0	5.6	21	150/500	150/450	10D/20D	
GCFYF-96Xn	96	8	0	6.4	31	250/800	150/450	10D/20D	
GCFYF-144Xn	144	12	0	8.3	49	250/800	150/450	10D/20D	

Storage/Operating Temperature: -40°C~+70°C  
储存/使用温度: -40°C~+70°C

### Optical Characteristics 光学特性

Fiber Type 光纤类型	Attenuation 衰减 (+20°C)				Bandwidth 带宽		Numerical Aperture 数值孔径	Cable Cut-off Wavelength λ <sub>c</sub> 光缆截止波长
	@850nm	@1300nm	@1310nm	@1550nm	@850nm	@1300nm		
Unit	dB/km	dB/km	dB/km	dB/km	MHZ.km	MHZ.km	NA	nm
G.652			≤0.36	≤0.22	—	—	—	≤1260
G.655			≤0.40	≤0.23	—	—	—	≤1450
50/125µm	≤3.3	≤1.2	—	—	≥500	≥500	—	—
62.5/125µm	≤3.5	≤1.2	—	—	≥200	≥500	0.275±0.015	—

Note:  
注意

a. Suffix Xn denotes fibre type  
型号的后缀Xn表示选用的光纤类型

b. The colour arrangements of fibre and tube are specified in the colour identification table  
套管和光纤的颜色排列见色谱表

c. The cable shouldn't store in outdoor environment more than 6 months in order to keep the cable reel good state  
光缆在露天环境中不要超过6个月，否则盘具可能会受损