

# 单芯光缆(SXC) Simplex Cable

## 产品描述 Description

SXC单芯光缆使用单根Φ900μm或Φ600μm阻燃紧套光纤作为光传输介质, 外覆一层芳纶作为受力加强单元, 最外挤制一层聚氯乙烯(PVC)或低烟无卤材料(LSZH, 低烟、无卤、阻燃)护套而成。

SXC simplex cable use single Φ900μm or Φ600μm flame-retardant tight buffer fibre as optical communication medium, the tight buffer fibre wrapped with a layer of aramid yarn as strength member units, and the cable is completed with a PVC or LSZH (Low smoke, Zero halogen, Flame-retardant) jacket.

## 产品特点 Characteristics

- 采用紧套光纤, 便于剥离使用  
Tight buffer fibre ease of stripping
- 紧套光纤有良好的阻燃性能  
Tight buffer fibre have excellent flame-retardant performance
- 芳纶加强元件, 使光缆有优异的抗拉性能  
Aramid yarn as strength member make cable have excellent tensile strength
- 外护材料耐腐蚀, 防水, 防紫外, 阻燃, 环保等优点  
The jacket anti-corrosion, anti-water, anti-ultraviolet radiation, flame-retardant and harmless to environment etc.
- 全介质结构, 不受电磁干扰  
All dielectric structure protect it from electromagnetic influence
- 加工工艺严谨, 设计科学合理  
Scientific design with serious processing art

## 产品应用 Applications

- 光纤活动连接跳线或尾纤  
Optical fibre jumper or pigtail
- 室内竖井级和强制通风级布线  
Indoor riser level and plenum level cable distribution
- 仪器、通信设备互联  
Interconnect between instruments, communication equipments

## 产品标准 Standards

满足YD/T 1258.2-2003; PVC护套光缆符合UL认证OFNR、OFNP要求。  
 Comply with Standard YD/T 1258.2-2003; and PVC jacket cable meet the requirements of UL OFNR and OFNP.

## 结构参数 Technical Parameters

光缆型号 Cable Code	光缆直径 Cable Diameter mm	光缆重量 Cable Weight kg/km		紧套光纤直径 TBF Diameter μm	允许拉伸力 Tensile Strength 长期/短期 Long /Short term N	允许压扁力 Crush Resistance 长期/短期 Long/Short term N/100mm	弯曲半径 Bending Radius 动态/静态 Dynamic/Static mm
		PVC护套 PVC Jacket	LSZH护套 LSZH Jacket				
SXC-I	1.6 ± 0.2	2.4	2.6	600 ± 50		100/500	50/30
SXC-II	2.0 ± 0.2	3.5	4.5	900 ± 50	60/120	100/500	50/30
SXC-III	2.8 ± 0.2	6.0	7.5	900 ± 50	80/150	100/500	50/30

## 光学特性 Optical Characteristics

		50 / 125 μm	62.5 / 125 μm	G.652	G.655
衰减 Attenuation (+20°C)	@ 850 nm	≤ 3.5 dB / km	≤ 3.5 dB / km		
	@ 1300 nm	≤ 1.5 dB / km	≤ 1.5 dB / km		
	@ 1310 nm			≤ 0.45 dB / km	≤ 0.50 dB / km
	@ 1550 nm			≤ 0.30 dB / km	≤ 0.50 dB / km
带宽 (A级) Bandwidth (Class A)	@ 850 nm	≥ 600 MHz·km	≥ 200 MHz·km		
	@ 1300 nm	≥ 1200 MHz·km	≥ 600 MHz·km		
数值孔径 Numerical Aperture		0.200 ± 0.015 NA	0.275 ± 0.015 NA		
光缆截止波长 Cable Cut-off Wavelength λ <sub>cc</sub>				≤ 1260 nm	≤ 1450 nm
温度附加衰减 Δα (-20°C~+60°C) Attenuation at temperature cycling Δα (-20°C~+60°C)	@ 1300 nm	≤ 0.25 dB / km	≤ 0.25 dB / km		
	@ 1550 nm			≤ 0.10 dB / km	≤ 0.15 dB / km

运输/储存/使用温度: -20°C~+60°C, 安装温度: -5°C~+50°C  
 Transport/Storage/Operating Temperature: -20°C~+60°C, Installation Temperature: -5°C~+50°C

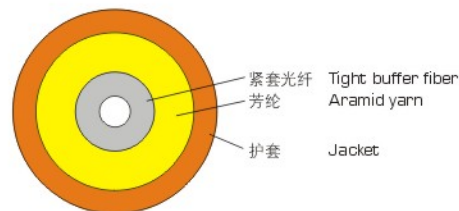
## 订货信息 Order Information

SXC-□-□□-1□  
 1 2 3 4

- 1 光缆直径 Cable Diameter  
I -Φ 1.6mm  
II -Φ 2.0mm  
III -Φ 2.8mm
- 2 护套材料 Jacket Material  
V-PVC护套 PVC Jacket  
Z-LSZH护套 LSZH Jacket
- 3 护套颜色 Jacket Colour  
O-橙色 Orange  
Y-黄色 Yellow
- 4 光纤类型 Fiber Type  
B1-G.652  
B1.3-G.652.D  
B4-G.655  
E1-EasyBand®G.657  
E1.1-EasyBand®Plus G.657  
A1-50/125 μm  
A1b-62.5/125 μm  
A1H-HiBand®50/125  
A1bH-HiBand®62.5/125  
M1-MaxBand®150  
M3-MaxBand®300  
M5-MaxBand®550

## 交货长度 Delivery Length

推荐长度: 2000m; 可按客户要求提供其它长度。  
 Standard Reel Length: 2000m; Other lengths available on request.



光缆结构图  
Cable Structure

