

# Simplex Cable

## 单芯光缆

### Description 产品描述

Simplex cable use single  $\Phi 900\mu\text{m}$  or  $\Phi 600\mu\text{m}$  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.

单芯光缆使用单根 $\Phi 900\mu\text{m}$ 或 $\Phi 600\mu\text{m}$ 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。

### Characteristics 产品特点

- Tight buffer fibre easy of stripping  
采用紧套光纤,便于剥离使用
- Tight buffer fibre have excellent flame-retardant performance  
紧套光纤有良好的阻燃性能
- Aramid yarn as strength member make cable have excellent tensile strength  
芳纶加强元件,使光缆有优异的抗拉性能
- The outer jacket material has many advantages such as anti-corrosion, anti-water, anti-ultraviolet radiation, flame-retardant and harmless to environment etc.  
外护材料耐腐蚀,防水,防紫外,阻燃,环保等优点

### Applications 产品应用

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

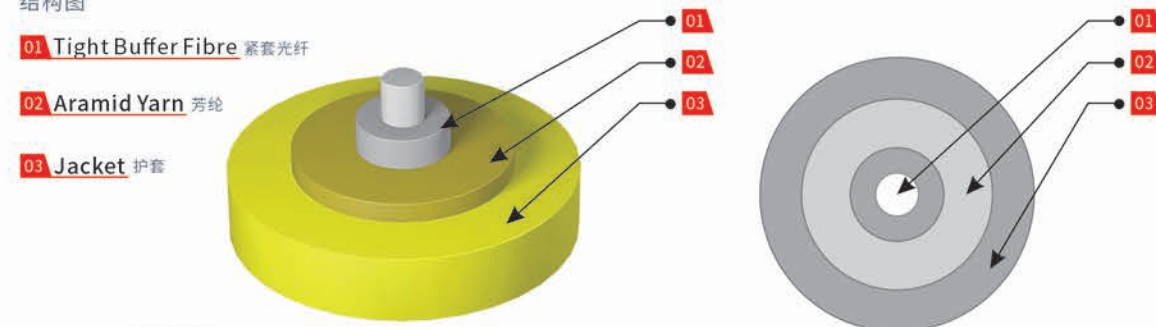
### Standards 产品标准

Comply with Standard YD/T 1258.2, ICEA-596, GR-409, IEC 60794-2-10/11, etc.; and PVC cable meet the requirements of UL approval OFNR and OFNP; Different LSZH jacket meet IEC 60332-1 or IEC 60332-3C or OFNR certification.

满足YD/T 1258.2、ICEA-596、GR-409、IEC 60794-2-10/11等标准;除了普通的PVC产品外,还有分别通过ULOFNR、OFNP认证的产品;LSZH产品选用不同材料,可以满足IEC60332-1或IEC60332-3C或OFNR认证。

### Structure Drawing 结构图

Structure Drawing  
结构图



## Specifications 参数

### Technical Parameters 结构参数

Cable Model 光缆型号	Cable Diameter (Ref) 光缆参考直径 (mm)	Cable Weight (Ref)(kg/km) 光缆参考重量		TBF Diameter 紧套光纤直径 ( $\mu\text{m}$ )	Tensile Strength 允许拉伸力	Crush Resistance 允许压扁力	Bending Radius 弯曲半径
		PVC Jacket PVC护套	LSZH Jacket LSZH护套		Long/Short term 长期/短期 (N)	Long/Short term 长期/短期 (N/100mm)	Dynamic/Static 动态/静态 (mm)
1.6	1.6 $\pm$ 0.2	2.4	2.6	600 $\pm$ 50	40/80	100/500	60/30
1.9	1.9 $\pm$ 0.2	3.5	4.5	900 $\pm$ 50	60/100	100/500	60/30
2.8	2.8 $\pm$ 0.2	6.0	7.5	900 $\pm$ 50	60/100	100/500	60/30

### Optical Characteristics 光学特性

Fiber Type 光纤类型	Attenuation 衰减				OFL 满注入带宽	Effective Mode Bandwidth 有效模式带宽	10 Gbit/s Ethernet Link Length 10G以太网链路长度	Minimum Bend Radius 最小弯曲半径
	1310/1550nm		850/1300nm					
Condition 条件	Typical Value 典型值	Maximum Value 最大值	Typical Value 典型值	Maximum Value 最大值	850/1300nm	850nm	850nm	/
Unit 单位	dB/km	dB/km	dB/km	dB/km	MHZ.km	MHZ.km	m	mm
G652D	0.36/0.22	0.5/0.4	—	—	—	—	—	16
G657A1	0.36/0.22	0.5/0.4	—	—	—	—	—	10
G657A2	0.36/0.22	0.5/0.4	—	—	—	—	—	7.5
50/125	—	—	3.0/1.0	3.5/1.5	$\geq 500/500$	—	—	30
62.5/125	—	—	3.0/1.0	3.5/1.5	$\geq 200/500$	—	—	30
Om3	—	—	3.0/1.0	3.5/1.5	$\geq 1500/500$	$\geq 2000$	$\leq 300$	30
Om4	—	—	3.0/1.0	3.5/1.5	$\geq 3500/500$	$\geq 4700$	$\leq 550$	30