



CABLE SPECIFICATION

OPTICAL FIBER CABLES

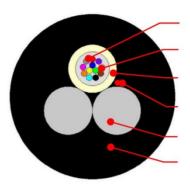
- ◆ 1-12 cores colored fiber
- ◆ Non-metallic self-supporting member
- ◆ Good-performance sheath materials

APPLICATION

- ◆ Outdoor cabling
- Suitable for aerial dropping

FEATURES

- ◆ Compact structure
- ◆ Able to be terminated onsite
- ◆ All dielectric structure, resistant to electromagnetic interference
- Easy for stripping, splicing, simplified installation and maintenance



Fibers

Jelly

Loose tube

Rip cord

Strength member

Outer sheath

- Not to scale-

STRUCTURE

ITEM		PERFORMANCE			
Material	Fiber type	ITU-T G.652			
	Loose tube	PBT (polybutylene terephthalate)			
	Strength member	FRP (Fiber Reinforce Plastic)			
	Outer jacket	HDPE (Poly Ethylene)			
Cores		1 – 12 cores			
Span*		80 m	120 m		
Diameter	Strength member	$\Phi 2.0 \pm 0.1 \text{ mm}$	Φ 2.5 ± 0.1 mm		
	Loose tube	Φ 2.1 ± 0.2 mm	Φ 2.5 ± 0.2 mm		
	Cable	$\Phi6.8 \pm 0.3~\text{mm}$	Φ 8.0 ± 0.3 mm		
Cable weight		44 kg/km	63 kg/km		
Max installation tension		850 N	1500 N		
*: Max wind speed: 25 m/s, no icing.					

TECHNICAL SPECIFICATIONS

ITEM	PERFORMANCE		
Attenuation	$\leq 0.40 \text{ dB/km} @ 1310 \text{ nm} \leq 0.30 \text{ dB/km} @ 1550 \text{ nm}$		
Tensile strength	See table above (IEC 60794-1-21 E1)		
Tensile strength	- Additional attenuation after test ≤ 0.05 dB@1550nm		
Crush resistance	1000 N/100mm (IEC 60794-1-21 E3)		
Crush resistance	-No fiber break, no sheath damage		
Minimum bending radius	Dynamic: $20 \cdot D^+$ Static: $10 \cdot D$ ⁺ : $D = Cable diameter$		
Environmental performance	RoHS		

TEMPERATURE RANGE

Operating	Transportation & Storage	Installation
-20~+65°C	-20~+65°C	-10~+55°C
		70.