

OPTICAL FIBER CABLES

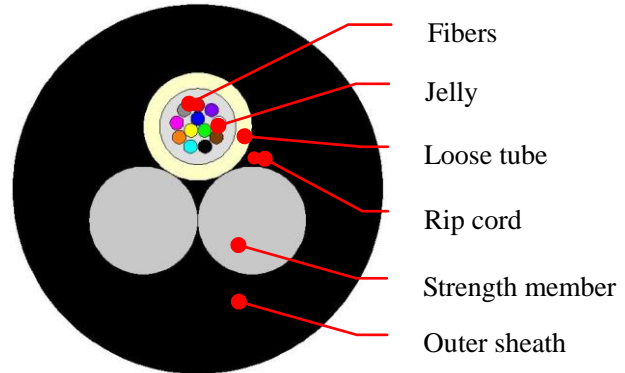
- ◆ 1-12 cores colored fiber
- ◆ Non-metallic self-supporting member
- ◆ Good-performance sheath materials

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



- 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	$\Phi 2.0 \pm 0.1$ mm	$\Phi 2.5 \pm 0.1$ mm
	Loose tube	$\Phi 2.1 \pm 0.2$ mm	$\Phi 2.5 \pm 0.2$ mm
	Cable	$\Phi 6.8 \pm 0.3$ mm	$\Phi 8.0 \pm 0.3$ 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	≤ 0.40 dB/km @ 1310 nm ≤ 0.30 dB/km @ 1550 nm
Tensile strength	See table above (IEC 60794-1-21 E1) - Additional attenuation after test ≤ 0.05 dB@1550nm
Crush resistance	1000 N/100mm (IEC 60794-1-21 E3) -No fiber break, no sheath damage
Minimum bending radius	Dynamic: $20 D^+$ Static: $10 D$ $^+ : D =$ Cable diameter
Environmental performance	RoHS

TEMPERATURE RANGE

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