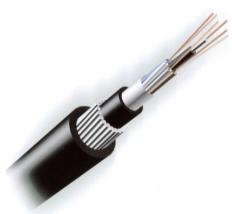


Outdoor Fiber Cable – Loose Tube



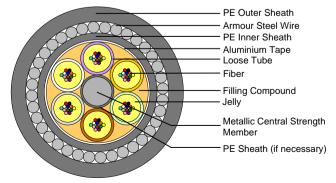
Optical Cable Specifications

Application

The fiber optic cable consists of six loose tubes stranded around the metallic central strength member, protected by overlapping flat aluminium tape longitudinally applied, over which an inner sheath of PE is applied. The cable is also armoured with spirally applied steel wires layer, over which an outer sheath of PE is applied. The spirally applied steel wires enhance tension, press and impact properties. This cable is designed for underwater and direct burial cabling and can be used in long distance communication, LAN, CATV and computer transmission applications. The cable's excellent mechanical properties allows it to be used in sever environmental conditions such as steep slopes and/or strong river currents.

Cable features

- Singlemode (9/125μm)or Multimode (50/125μm or 62.5/125μm)
- Jelly-filled cable core
- Loose tube material: Polybutylene Terephthalate (PBTP)
- Adopts special SZ cross-directional stranding method
- Central strength member: Phosphated steel wire
- Double-sided PE aluminium tape PE inner sheath
- Steel wire spiralling layer with PE outer sheath
- Color coding complies with TIA/EIA-598B





Mechanical Specifications

Fiber Count	2 ~ 24	26 ~ 36	38 ~ 60		
Outer Diameter (mm)	19.3	20.0	20.8		
Max Weight (kg/km)	770	810	870		
Min Bending Radius - Short Term	12.5 times O.D.				
Min Bending Radius - Long Term	25 times O.D.				
Max Tensile Load (N) - Short Term	20000				
Max Tensile Load (N) - Long Term	10000				
Crush Resistance (N/100mm) – Short Term	5000				
Crush Resistance (N/100mm) – Long Term	3000				
Operating Temperature	-40°C to +70°C				



Optical fiber specifications - Singlemode

Fiber Code	S9			
Wavelength (nm)	1310	1550		
Core/Cladding (µm)	9/125			
Mode-Field Diameter (μm)	(9.3) ± 0.5	(10.5) ± 1.0		
Max. Attenuation (dB/km)	≤ 0.35	≤ 0.22		
Dispersion Coefficient (ps/km·nm)	λ @ 1285nm~1339nm	λ @ 1550nm		
	≤ 3.5	≤ 18		
Cutoff wavelength (nm)	λ_{c} = 1260 \pm 70			
Glass concentricity error (μm)	≤ 0.8			
Cladding non-circularity (%)	≤1.0			
Proof test (Kpsi)	≥ 100Kpsi (0.7GN/m2)			
Dynamic fatigue (tensile)	≥ 20			
Compliance	ITU-T G.652 (Categories A, B, C & D)			

Optical fiber specifications - Multimode

Fiber Code	M5		M6		
Wavelength (nm)	850	1300	850	1300	
Core/Cladding (μm)	50/125 62.5/125				
Core non-circularity (%)	≤ 6.0				
Cladding non-circularity (%)	≤ 1.0				
Core/Cladding non-concentricity (%)	≤ 6.0				
Numerical Aperture	0.20 ± 0.02		0.275 ± 0.015		
Max. Attenuation (dB/km)	≤2.3	≤0.5	≤2.6	≤0.6	
Performance (MHz.km)	≥500	≥1000	≥400	≥1000	
Proof test (Kpsi)	≥ 100				
Dynamic fatigue (tensile)	≥ 25				

Notes

- Fiber colors by EIA/TIA-598-B: Blue/Orange/Green/Brown/Slate/White/Red/Black/Yellow/Violet/Rose/Aqua
- Diameter represents a nominal vary and may vary by ±5%