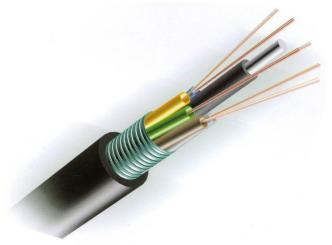


# Outdoor Fiber Cable – Loose Tube Product Type: TOTS



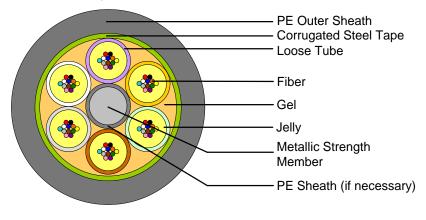
## **Optical Cable Specifications**

#### Application

The cable consists of six loose tubes or more (or some fillers) stranded around the metal central strength member, protected by corrugated steel tape longitudinal folded and PE outer sheath. The cable is lightweight, small in diameter, and designed for direct burial, duct and aerial installation. The loose tube design with a steel tape armoring provides rigid protection, rodent resistance and stable performance over a wide temperature range.

#### **Cable features**

- Up to 432 fiber count
- Singlemode (9/125µm)or Multimode (50/125µm or 62.5/125µm)
- PE or LSOH jacket, 1.5mm thick
- 0.15mm corrugated steel tape, ≥3mm overlap width
- Loose tube material: Polybutylene Terephthalate (PBTP)
- Jelly compound tube filling
- Central strength member: 1.5mm diameter steel wire
- Filler: Polypropylene
- Color coding complies with TIA/EIA-598B



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## **Mechanical Specifications**

Fiber count	Cable diameter (mm)	Cable weight (kg/km)	Min. bending radius (mm)		Allowable tension (N)		Max. crush loading force (N/100mm)	
			Static state	Dynamic state	Short term	Long term	Short term	Long term
2-24	10.3	128	10 times cable diameter	20 times cable diameter	1500	600	1000	300
26-36	11.2	147						
38-60	12.1	161						
62-72	12.9	187						
74-96	14.4	235						
98-120	16.1	290						
122-144	17.7	350						
146-216	18.1	365						
218-288	23.1	530						
290-432	23.5	540						



### **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		
	λ@ 1285nm~1339nm	λ @ 1550nm		
Dispersion Coefficient (ps/km·nm)	≤ 3.5	≤ 18		
Cutoff wavelength (nm)	$\lambda_c = 1260 \pm 70$			
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**

<b>-</b> "	NG				
Fiber Code	M5		M6		
Wavelength (nm)	850	1300	850	1300	
Core/Cladding (μm)	50/125		62.5/125		
Core non-circularity (%)	≤ <b>6</b> .0				
Cladding non-circularity (%)	< 1.0 <				
Core/Cladding non-concentricity (%)	≤ <b>6</b> .0				
Numerical Aperture	$0.20\pm0.02$		$\textbf{0.275} \pm \textbf{0.015}$		
Max. Attenuation (dB/km)	≤2.5	≤0.7	≤3.0	≤0.8	
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%

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