



### Form one single mode fiber

Item	Unit	Specification
Attenuation	dB/km	1310nm $\leq$ 0.4
		1550nm $\leq$ 0.3
Dispersion	Ps/nm.km	1285~1330nm $\leq$ 3.5
		1550nm $\leq$ 18.0
Zero dispersion wavelength	Nm	1300~1324
Zero dispersion slope	Ps/nm.km	$\leq$ 0.095
Fiber cutoff wavelength	Nm	$\leq$ 1260
Mode field diameter	Um	9.2 $\pm$ 0.5
Mode field concentricity	Um	$\leq$ 0.8
Cladding diameter	Um	125 $\pm$ 1.0
Cladding non-circularity	%	$\leq$ 1.0
Coating/cladding concentricity error	Um	$\leq$ 12.5
Coating diameter	Um	245 $\pm$ 10
Bending, dependence	induced	1550nm, 1turns, 32mm diameter
Attenuation		$\leq$ 0.5 db
		100rums, 60mm diameter
Proof test	kpsi	$\geq$ 100

### Form two multimode fiber

Item	Unit	Specification
Attenuation	dB/km	850 nm ≤ 3.5
		1300nm ≤ 1.5
Bandwidth	MHz.km	50/125um      62.5/125um
		850nm ≥ 200      850nm ≥ 160
		1300nm ≥ 200      1300nm ≥ 200
Cladding diameter	Um	125±1.0
Cladding non-circularity	%	≤ 1.0
Coating/cladding concentricity error	Um	≤ 12.5
Coating diameter	Um	245±10
bending, dependence	induced	850nm,1300nm      100turns, 75mm ≤ 0.5 at 850nm\1300nm
attenuation	diameter	
Proof test	kpsi	≥ 100

### Each requirement

- 1 - Number of fiber
    - 2---12
  - 2 - Characteristic of fiber
    3. Color: 12 different colors according to the chromatogram
  - 3 - The out diameter of PBT loose tube
    - Φ3.0±0.1 mm
  - 4 - Aramid yarn
  - 5 - Out jacket
    4. Material: PVC/LSZH/PE
- OD: 6.0±0.3 mm

### Application

Model	Fiber account	OD(mm)	Tube account	Nominal Weight (kg/km)	Max.Tension(N)		Max. Crushing Resistance (N/100)	
					Short-term	Long-term	Short-term	Long-term
FC-XXX-XX-CLTI-3	2--24	6.0±0.3	1	38	1000	400	1000	300

The true weight of optical cable may had some tolerance with the above stated value.

### Part Number Legend.

FO CABLE	MODE		FIBER COUNT		FIBER PLACEMENT		PURPOSE		JACKET TYPE	
	OS1	OS1	2 CORE	02	CENTRAL LOOSE TUBE	CLT	INDOOR	I	PVC	1
	OS2	OS2	4 CORE	04					PE	2
	OM1	OM1	6 CORE	06					LSZH	3
	OM2	OM2	8 CORE	08						
	OM3	OM3	12 CORE	12						
	OM4	OM4	24 CORE	24						

### Example:

FC-OM4-06-CLTI-3----Fiber Optic Cable OM4 06 core Central Loose Tube Indoor with LSZH jacket