



- LSZH Outer Jacket
- Colored Fiber
- FRP+ Cushion
- Loose Tubes

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 \leq 0.5 db
		100turns, 60mm diameter
Attenuation		
Proof test	kpsi	\geq 100

Form two: multimode fiber

Item	Unit	Specification
Attenuation	dB/km	850 nm \leq 3.5
		1300nm \leq 1.5
Bandwidth	MHz.km	50/125um 62.5/125um
		850nm \geq 200 850nm \geq 160
		1300nm \geq 200 1300nm \geq 200
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	850nm,1300nm 100turns, 75mm \leq 0.5 at 850nm\1300nm
attenuation	diameter	
Proof test	kpsi	\geq 100

Each requirement

- 1 - UV colored fiber
- 2 - Loose tube $\Phi 2.15$
 ± 0.10 mm
- 3 - Central strength member
FRP+ cushion
- 4 - Out jacket: PE

Application: FC-XXX-XX-MLTI-3

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
2--60	9.8 ± 0.5	5	88	1500	600	1000	300
62--72	10.5 ± 0.5	6	102	2000	600	1000	300
74--96	12.0 ± 0.5	8	136	2000	600	1000	300
98--120	13.2 ± 0.5	8	156	2000	600	1000	300
122--144	15.0 ± 0.5	12	180	2000	600	1000	300

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

Temperature range:

Storage or transportation: $-40 \sim 70^{\circ}\text{C}$

Operation: $-40 \sim 70^{\circ}\text{C}$

Tactic rule for loose tube and fiber

Fiber Account	Number of loose tube											
	1	2	3	4	5	6	7	8	9	10	11	12
	Red	Green	Nature	Nature	Nature	Nature	Nature	Nature	Nature	Nature	Nature	Nature
2--12	Filler	Filler	Filler	Filler	Tube							
14--24	Filler	Filler	Filler	Tube	Tube							
26--36	Filler	Filler	Tube	Tube	Tube							
38--48	Filler	Tube	Tube	Tube	Tube							
50--60	Tube	Tube	Tube	Tube	Tube							
62--72	Tube	Tube	Tube	Tube	Tube	Tube						
74--84	Filler	Tube	Tube	Tube	Tube	Tube	Tube	Tube				
86--96	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube			
98--108	Filler	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube		
110--120	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	
122--132	Filler	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube
134--144	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube

Part Number Example

FC-OS2-48-MLTI-3

FC-OM3-96-MLTI-3