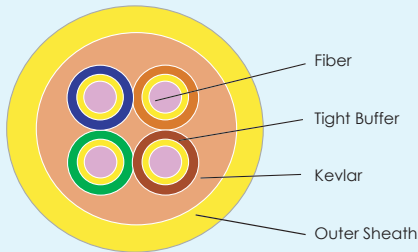
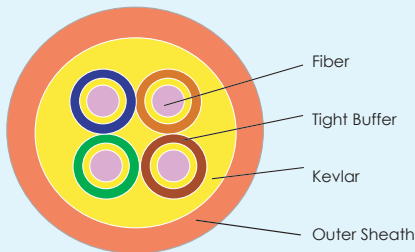


OPTICAL FIBER CABLE INDOOR DISTRIBUTION

::: Cross Section Diagram :::



Singlemode



Multimode

Structure and Material Specification		
Tight Buffered Fibre	Diameter	0.9mm
Armoured Layer	Material	KEVLAR
Sheath	Material	PVC
	Thickness	1.0mm
Mechanical / Electrical / Environment Characteristics		
Item	Parameter	
Tensile	Short Term	600N
	Long Term	450N
Crush	200N/10cm	
Bending Radius	Installing	30* Cable Diameter
	Installed	≥ 10* Cable Diameter
Other Mechanical Characteristics	Correspond to IEC Publication	
Insulating Resistance of Sheath	≥ 2000M after 24 hours water immersion	
Water Penetration	Correspond to IEC 794-1-F5	
Moisture Resident Jelly	+ 70, No jelly will be flooded	
Temperature	-40~+70 Additional dispersion 0.05dB/km	

Transmission Parameters Of Fibres						
Parameter	Unit	Singlemode Fibre			Multimode Fibre	
		G.652	G.652-C	G.655	G.651 50/125	G.651 62.5/125
Attenuation						
850 nm	dB/km				3.0	3.5
1310 nm		≤0.36	≤0.36		1.0	1.5
1383 nm		≤2.1	≤0.36	≤ 2.1		
1550 nm		≤0.22	≤0.22	≤0.22		
1625 nm			≤0.25	≤0.25		
Chromatic dispersion						
1288~1339 nm	ps/nm·km	≤3.5	≤3.5			
1550 nm		≤18	≤18			
1530~1565 nm				1.0 to 6.0		
1565~1625 nm				4.5 to 11.2		\
Bandwidth						
850 nm	MHz·km				≥200	≥160
1300 nm					≥500	≥500
PMD						
individual fibre	ps/km ^{1/2}	≤0.2	≤0.2	≤0.1		
link desin value		≤0.1	≤0.1	≤0.04		
Cut off wavelength (in cable)	nm	≤1260	≤1260	≤1480		

Geometrical Parameters Of Fibres						
Parameter	Unit	Singelmode Fibre			Multimode Fibre	
		G.652	G.652-C	G.655	G.651 50/125	G.651 62./125
Mode field diameter at wavelength						
1310 nm	μm	9.2±0.4	9.2±0.4			
1550 nm	μm	10.4±0.8	10.4±0.8	9.2~10.0		
Mode field noncircularity	μm	≤0.5	≤0.5	≤0.5		
Core diameter	μm				50±2	62.5±2
Cladding diameter	μm	125±1.0			125±2.0	
Cladding ellipticity	%	≤1			≤2	
Coating / cladding concentricity	μm	≤12				
Core / cladding concentricity	μm	≤0.5			≤3.0	
Primary coating diameter	%	≤1.0			≤2.0	
Numerical aperture	μm	245±5				
Curl	m	≥4				

Ordering Information							
Type	Fiber Count	Outer Sheath		Cable		Max. Tension Force	
		Material	Thickness (mm)	Outer Dia. (mm)	Weight (kg/km)	Short Term	Long Term
LTOC-CB-XX05-04	4	PVC	1.0	4.6	17.0	400	200
LTOC-CB-XX05-06	6	PVC	1.0	5.0	22.0	500	300
LTOC-CB-XX05-08	8	PVC	1.0	5.5	23.0	500	300
LTOC-CB-XX05-10	10	PVC	1.0	5.8	25.0	600	400
LTOC-CB-XX05-12	12	PVC	1.0	6.1	29.0	600	400