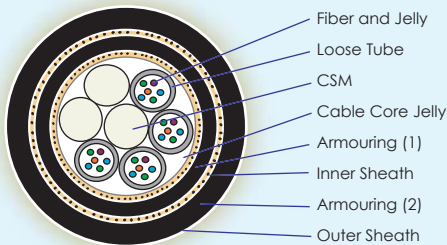


## OPTICAL FIBER CABLE DOUBLE ARMoured STRANDED TUBE

### ::: Cross Section Diagram :::



Structure and Material Specification		
Center Strength Member	Material	Steel Wire
	Diameter	2.3mm
Loose Tube	Material	PBT
	Out Dia	2.2mm
Wrap Tape	Material	Water Proof Tape
	Thickness	0.2 mm
Armoured (1)	Material	AL/PE Tape
	Thickness	Tape 0.15mm Each Side PE 0.05mm
Inner Sheath	Material	PE
	Thickness	1.0mm
Armoured (2)	Material	PE Coated Corrugated
	Thickness	Steel Tape 0.15mm Each Side PE 0.05mm
Outer Sheath	Material	PE
	Thickness	2.0 mm
Mechanical / Electrical / Environment Characteristic		
Item	Parameter	
Tensile	Short Term	3000N
	Long Term	1000N
Crush	Short Term	3000N/10cm
	Long Term	1000N/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 IEC794-1-F5	
Moisture Resistant 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 link value	ps/km <sup>1/2</sup>	≤0.2	≤0.2	≤0.1		
		≤0.1	≤0.1	≤0.04		
Cut off wavelength (in cable)	nm	≤1260	≤1260	≤1480		
Geometrical Parameters Of Fibres						
Parameter	Unit	Singlemode Fibre			Multimode Fibre	
		G.652	G.655	G.655	G.651 50/125	G.651 62.5/125
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	Central Strength Member	Loose Tube		Fillers		Inner Sheath Thickness	Outer Sheath Thickness	Cable kg/km	Weight outer Dia.
		Steel Wire	Dia. /mm	No.	Dia. /mm	No.				
LTOC-CB-XX09-04	4	2.3	2.2	1.0	2.2	5	1.0	2.0	15.5	250
LTOC-CB-XX09-06	6	2.3	2.2	1.0	2.2	5	1.0	2.0	15.5	250
LTOC-CB-XX09-08	8	2.3	2.2	1.0	2.2	5	1.0	2.0	15.5	250
LTOC-CB-XX09-12	12	2.3	2.2	2.0	2.2	4	1.0	2.0	15.5	251
LTOC-CB-XX09-16	16	2.3	2.2	2.0	2.2	4	1.0	2.0	15.5	252
LTOC-CB-XX09-18	18	2.3	2.2	3.0	2.2	3	1.0	2.0	15.5	253
LTOC-CB-XX09-24	24	2.3	2.2	3.0	2.2	3	1.0	2.0	15.5	253

\*Specification subject to change without prior notice