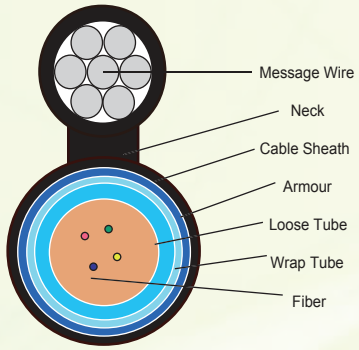
TECH
TELECOMMUNICATION TECHNOLOGY

Fiber Cable Aerial Center Tube

FIBER OPTIC

Cross Section Diagram



Structure and Material Specification		
Message Wire	Material	Steel Wire
	Spec	1.4 x 7
Loose Tube	Material	PBT
	Out Dia	Refer table below
Wrap Tape	Material	Water Proof Tape
	Thickness	0.2 mm
Armoured	Material	PE Coated Corrugated Steel Tape
	Thickness	Steel Tape 0.15 Each Side PE 0.15
Outer Sheath	Material	PE

Mechanical / Electrical / Environment Characteristics		
Item	**Parameter**	
Tensile	Short Term	3500N
	Long Term	1500N
Crush	Short Term	1000N/10cm
	Long Term	300N/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	ps/km1 /2	<=0.2	<=0.2	<=0.1		
link 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 62.5/125**
Mode field diameter at wavelength						
1310 nm	m	9.2±0.4	9.2±0.4			
1550 nm	m	10.4±0.8	10.4±0.8	9.2~10.0		
Mode field noncircularity	m	<=0.5	<=0.5	<=0.5		
Core diameter	m				50±2	62.5±2
Cladding diameter	m	<=125±1.0			<=125±2.0	
Cladding ellipticity	%	<=1			<=2	
Coating / cladding concentricity	m	<=12				
Core / cladding concentricit y	m	<=0.5			<=3.0	
Primary coating diameter	%	<=1.0			<=2.0	
Numerical aperture	m	245±5				
Curl	m	>=4				

Ordering Information

Type	Fiber Count	Message Wire		Loose Tube	Sheath	Cable	
		Steel Wire	PE Sheath Dia.	Dia. /mm	Thickness (mm)	Outer Dia./ mm	Kg/km
TTOC-AAC-XM04C	4	1.4X7	1.2	3.0	2.0	9.2	264
TTOC-AAC-XM06C	6	1.4X7	1.2	3.0	2.0	9.2	264
TTOC-AAC-XM08C	8	1.4X7	1.2	3.0	2.0	9.2	264
TTOC-AAC-XM12C	12	1.4X7	1.2	3.0	2.0	9.2	264
TTOC-AAC-XM16C	12	1.4X7	1.2	4.2	2.0	10.4	297
TTOC-AAC-XM18C	12	1.4X7	1.2	4.2	2.0	10.4	298
TTOC-AAC-XM24C	24	1.4X7	1.2	4.2	2.0	10.4	298

* Specification subject to change without prior notice