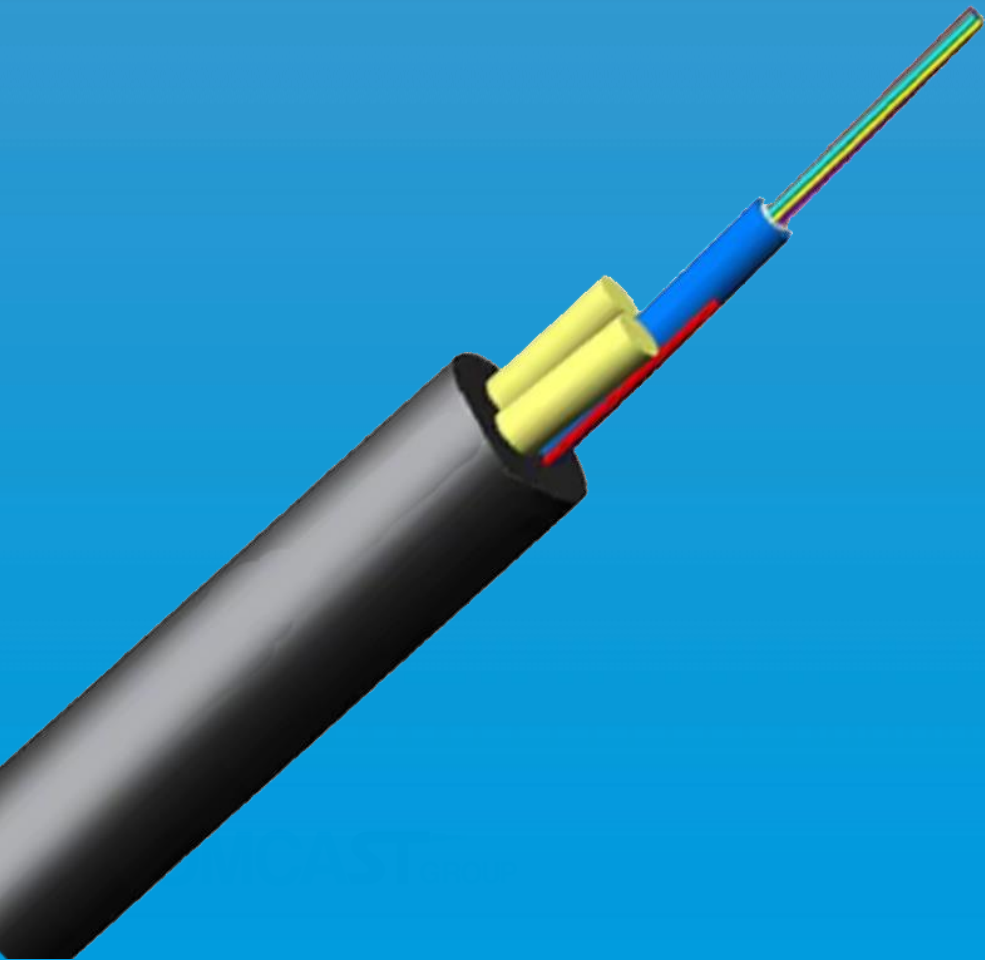
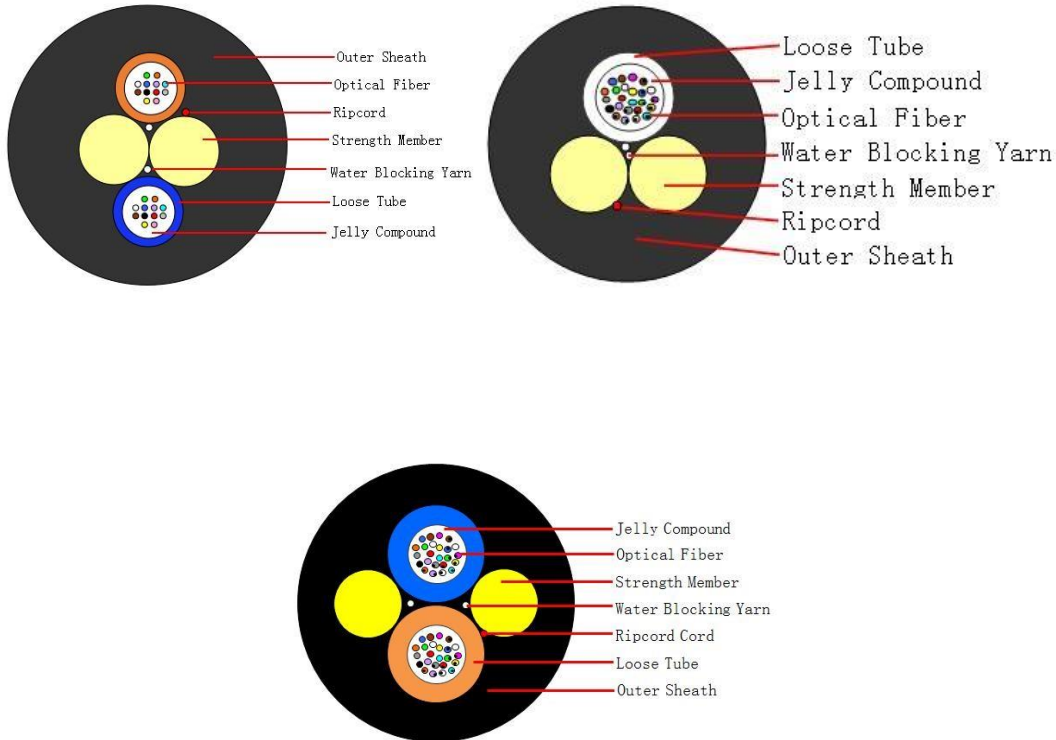


FIBER OPTIC ASU SPAN 100

COMCAST GROUP



Central Loose Tube Aerial Self Supportead, G.652D,FRP,PE,Span 100m Cable Design



Fibre Color

No.	1	2	3	4	5	6
Color	Blue	Orange	Green	Brown	Gray	White
No.	7	8	9	10	11	12
Color	Red	Black	Yellow	Violet	Pink	Aqua

Loose Tube

No.	1	2
Color	Blue	Orange

Technical data

No. of cable		Unit	2~12	24	24	48
Span		m	100			
Fiber Model		/	G.652D			
Loose Tube	Material	/	PBT			
	Diameter	mm	2.0±0.1		2.8±0.1	
	No. of tube	/	1	2	1	2
	Colour	/	Nature	Blue、Orang	Nature	Blue、Orang
Strength Member	Material	/	FRP			
	Diameter	mm	1.8±0.05			2.0±0.05
Outer Sheath	Material	/	PE			
	Color	/	Black			
Water Blocking	Material	/	Water Blocking Yarn			
Ripcord	Material	/	Nylon			
	No.	/	1			
Cable Diameter		mm	6.8±0.4	7.8±0.4	7.5±0.4	9.0±0.4
Cable Weight		kg/km	40±5.0	51±5.0	48±5.0	68±5.0
Allowable Tensile Strength		N	2400N			2800N
Allowable Crush Resistance		N/100mm	2000N/100mm			
Min. bending radius	Without Tension	mm	10.0×Cable-φ			
	Under Tension		20.0×Cable-φ			
Temperature range	Installation	°C	-20~+60			
	Transport&Storage		-40~+70			
	Operation		-40~+70			

Item	Test Method	Acceptance Condition
Tensile Strength	- Load: 2400N(2800N)	- Loss change □ 0.1 dB @ 1550 nm

The properties of single mode optical fiber (ITU-T Rec. G.652.D)

Item	Specification
Fiber type	Single mode
Fiber material	Doped silica
Attenuation coefficient @ 1310 nm @ 1383 nm @ 1550 nm @ 1625 nm	□ 0.35 dB/km □ 0.32 dB/km □ 0.21 dB/km □ 0.25 dB/km
Point discontinuity	□ 0.05 dB
Cable cut-off wavelength	□ 1260 nm
Zero-dispersion wavelength	1300 ~ 1324 nm
Zero-dispersion slope	□ 0.092 ps/(nm ² .km)
Chromatic dispersion @ 1288 ~ 1339 nm @ 1271 ~ 1360 nm @ 1550 nm @ 1625 nm	□3.5 ps/(nm. km) □5.3 ps/(nm. km) □18 ps/(nm. km) □22 ps/(nm. km)
PMD _Q (Quadrature average*)	□0.2 ps/km ^{1/2}
Mode field diameter @ 1310 nm	9.2±0.4 μm
Core / Clad concentricity error	□ 0.5 μm
Cladding diameter	125.0 □ 0.7 μm
Cladding non-circularity	□1.0%
Primary coating diameter	245 □ 10 μm
Proof test level	100 kpsi (=0.69 Gpa), 1%
Temperature dependence 0oC~ +70oC @ 1310 & 1550nm	□ 0.1 dB/km

Mechanical and thermal performances

IEC 60794-1-2-E1	- Length of cable: about 50m	- No fiber break and no sheath damage.
Crush Test IEC 60794-1-2-E3	Load: 2000N/100mm Load time: 1min	- Loss change \square 0.1dB@1550nm - No fiber break and no sheath damage.
Impact Test IEC 60794-1-2-E4	- Points of impact: 3 - Times of per point: 1 - Impact energy: 5J	- Loss change \square 0.1dB@1550nm - No fiber break and no sheath damage.
Temperature Cycling Test IEC60794-1-2-F4	- Temperature step: +20°C→-40°C→+70°C →+20°C - Time per each step: 12 hrs - Number of cycle: 2	- Loss change \square 0.1 dB/km@1550 nm - No fiber break and no sheath damage.

Sheath marking

The optical fiber drop cable shall have sequentially numbered length marking at intervals of approximately 1 meter. The starting number of ordering length for any coil shall begin with zero meter. The accuracy of the measurement of length marking shall be held within the limits of $\pm 1\%$. a) Manufacturer's name

- b) Type of CABLE
- c) Year and month of manufacture
- d) Length marking each meter along the wire

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